



Quick Start Guide for Mac

CloudBacko Corporation

6 January 2025

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6 January 2025	<ul style="list-style-type: none"> ▪ Ch. 7.4.1.9 – Removed Open Direct, updated screenshots ▪ Ch. 7.6.3 – updated module list, added PostgreSQL Backup module ▪ Ch. 8 – Removed OpenDirect ▪ Ch. 11 – Updated Restore steps ▪ Ch. 11.2 – Updated Restore Filter instructions 	5.13

Table of Contents

1	Overview.....	1
1.1	What is this software?	1
1.2	System Architecture	2
1.3	Mobile Backup Server (MBS)	3
	System Diagram	3
1.4	Two-Factor Authentication	6
2	Requirements for CloudBacko app.....	8
2.1	Backup Software Version Requirement.....	8
2.2	Network Connection.....	8
2.3	Android and iOS Version Requirement.....	8
3	Requirements for CloudBacko Pro on macOS.....	9
3.1	Hardware Requirements	9
3.2	Supported Platforms	9
3.3	Internet Connection.....	9
3.4	SMTP Server	9
3.5	Firewall Settings.....	9
3.6	Full Disk Access Permission	10
3.7	Supported Applications	10
3.8	Supported Microsoft 365 Services and Items	11
3.9	Java Heap Size.....	11
3.10	Two-Factor Authentication Requirements	11
3.11	Mobile Device Requirements	11
3.12	Date, Time, and Time Zone for 2FA (TOTP only).....	12
3.13	Supported macOS Big Sur on Intel and ARM (M1) CPU	13
3.14	Limitations.....	13
	3.14.1 Case-Insensitive File System.....	13
	3.14.2 Continuous Backup.....	13
	3.14.3 File Permissions	13
	3.14.4 Installation on Root Drive.....	13
	3.14.5 Resource Fork Files.....	13
	3.14.6 Software Update	13
4	Get Started with CloudBacko Pro	14
5	Download and Install CloudBacko Pro	15
5.1	Download CloudBacko Pro	15
5.2	Install CloudBacko Pro.....	16

5.3	CloudBacko Pro Services.....	20
5.4	RunLevel Symlink Check	24
5.5	Mobile Backup Server (MBS) Health Check and CloudBacko app connection Check.....	25
6	Start CloudBacko Pro.....	28
6.1	Launch CloudBacko Pro without 2FA.....	28
6.1.1	Initial launch skipping two-factor authentication and mobile backup features setup	28
6.1.2	Subsequent logins without 2FA but with password lock	30
6.1.3	Subsequent logins without 2FA and password lock	31
6.2	Launch CloudBacko Pro with 2FA using Android or iOS mobile device.....	32
6.2.1	Initial launch setting up two-factor authentication and mobile backup features	32
6.2.2	Subsequent logins with 2FA	43
6.2.3	Subsequent logins with 2FA and password lock	46
6.3	Trial Mode	47
7	CloudBacko Pro Overview	49
7.1	Language.....	50
7.2	About	50
7.3	Backup.....	51
7.4	Backup Sets.....	52
7.4.1	Backup Set Settings	55
7.4.1.1	General.....	55
7.4.1.2	Source	57
7.4.1.3	Backup Schedule.....	66
7.4.1.4	Destination.....	71
7.4.1.5	Deduplication.....	76
7.4.1.6	Retention Policy.....	79
7.4.1.7	Command Line Tool	85
7.4.1.8	Bandwidth Control	91
7.4.1.9	Others.....	94
7.5.1	Backup	102
7.5.2	Restore.....	106
7.5.3	Usage	107
7.5.4	Purchase	109
7.5	Restore	110
7.6	Settings.....	111
7.7.1	Proxy	112

7.7.2	Email Report.....	113
7.7.3	License	118
7.7.4	Authentication.....	125
7.7.5	Mobile Backup	137
7.7	Utilities	144
7.8.1	Data Integrity Check	145
7.8.1.1	Data Integrity Check Completed with Errors	156
7.8.1.2	Data Integrity Check Result.....	157
7.8.1.3	Test Mode Confirmation	159
7.8.2	Space Freeing Up.....	161
7.8.3	Ex/Import Settings	165
7.8.4	Delete Backup Data.....	170
7.8.5	Decrypt Backup Data.....	176
7.8	Buy	177
7.9.1	Credit Card	179
7.9.2	TT (Telegraphic Transfer)	186
7.9	Social Media Icons.....	191
7.10	Online Help	192
8	Create a Backup Set	193
9	Overview on Backup Process.....	203
9.1	Periodic Data Integrity Check (PDIC) Process	204
9.2	Backup Set Index Handling Process	206
9.2.1	Start Backup Job	206
9.2.2	Completed Backup Job.....	207
9.3	Data Validation Check Process.....	208
10	Run Backup Jobs	209
11	Restore Data.....	212
11.1	Restore Method	212
11.2	Restore Filter	218
12	Mobile Backup and Restore to Cloud	222
12.1	Create a File Backup Set	222
12.2	Run a Backup Job.....	224
12.3	Restore Data.....	224
12.3.1	Original Location.....	225
12.3.2	Alternate Location.....	226
13	Contact CloudBacko.....	229

Technical Assistance	229
Appendix.....	230
Appendix A: Uninstall CloudBacko Pro	230
Appendix B: Example Scenarios for Restore Filter	232
Appendix C: Setting up Full Disk Access Permission.....	240
Appendix D: Exclude Filter System Files	244
Appendix E: Example Registration of Time-base One-time Password (TOTP) Authenticator app in CloudBacko app	246
Appendix F: How to apply a license key to a CloudBacko Pro installation with an expired trial license?.....	251
Appendix G: Where to find the CloudBacko Pro purchase license key?	254
Appendix H: Different Date, Time, and Time zone with CloudBacko Pro machine and mobile device	256

1 Overview

1.1 What is this software?

CloudBacko brings you specialized client backup software, namely CloudBacko Pro, to provide a comprehensive backup solution for protecting the following applications:

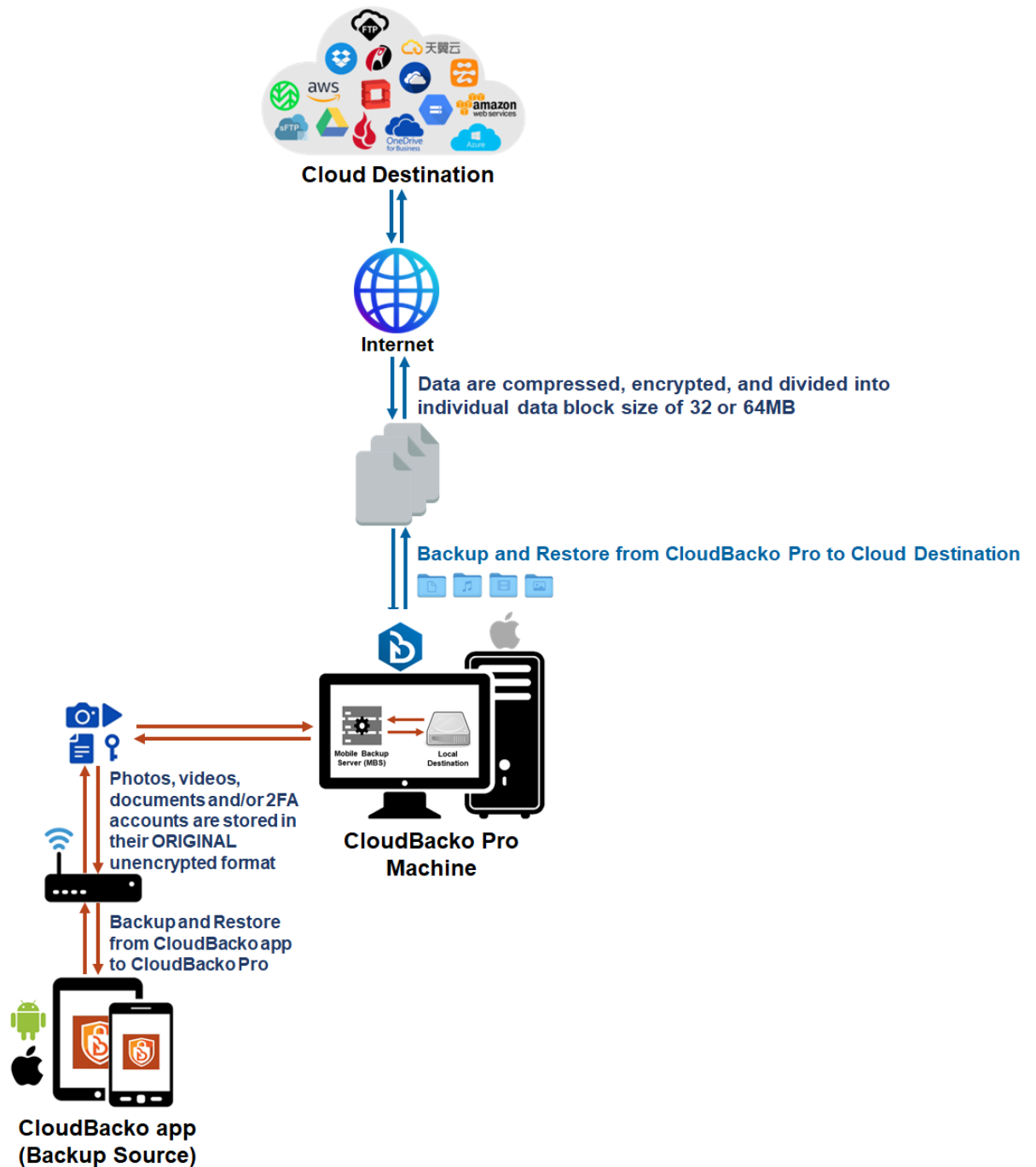
- ▶ File
- ▶ Cloud File
- ▶ MySQL
- ▶ Microsoft 365 Exchange Online Mailbox
- ▶ VMware

It also supports a wide variety of backup destinations, which are the following:

- | | |
|--|-----------------------------------|
| ▶ Local hard drive / USB drive / Network share | ▶ Google Drive |
| ▶ 1&1 IONOS | ▶ Microsoft Azure |
| ▶ Alibaba Cloud (Aliyun) | ▶ Microsoft OneDrive |
| ▶ Amazon S3 | ▶ Microsoft OneDrive for Business |
| ▶ S3-Compatible Cloud Storage | ▶ OpenStack |
| ▶ BackBlaze B2 | ▶ Rackspace Cloud File |
| ▶ CenturyLink | ▶ S3ForMe |
| ▶ CTYun | ▶ Scalify |
| ▶ DreamHost's DreamObjects | ▶ Wasabi |
| ▶ Dropbox | ▶ Zadara |
| ▶ IBM Cloud Object Storage | ▶ FTP |
| ▶ Google Cloud Storage | ▶ SFTP |

1.2 System Architecture

Below is the system architecture diagram illustrating the major elements involved in the backup process among the backup machine CloudBacko Pro and CloudBacko app (mobile client).



1.3 Mobile Backup Server (MBS)

The Mobile Backup Server (MBS) will be utilized to handle mobile backup and restore of CloudBacko app. It is an integral part of CloudBacko Pro, which is located in the “mbs” folder inside the CloudBacko Pro folder.

System Diagram

The Mobile Backup Server (MBS) will be activated automatically when a mobile device installed with the CloudBacko app is successfully registered for mobile backup with CloudBacko Pro. Afterwards, it will be automatically restarted whenever the CloudBacko pro services is restarted or when the CloudBacko Pro machine is rebooted or powered on. The MBS will be deactivated when all mobile devices have deregistered from the mobile backup settings and the CloudBacko Pro services is restarted.

The MBS will use the following port ranges for the request of CloudBacko app:

- **TCP Port:** 50000 to 50099
- **UDP Port:** 50200 to 50299
- **Protocol:** Http


The default TCP and UDP ports are **50000** and **50200**, if these ports are already in use by other applications or services, then the MBS will automatically acquire another port.


The actual TCP and UDP port can be seen on the CloudBacko Pro when pairing a mobile device for mobile backup.


Mobile Backup Setup

Please scan the QR code to get the below Mobile App from App Store. Once installed the Mobile App, launch it and scan the same QR code to complete the device registration.

Mobile Backup (Add new device for backup without migration)







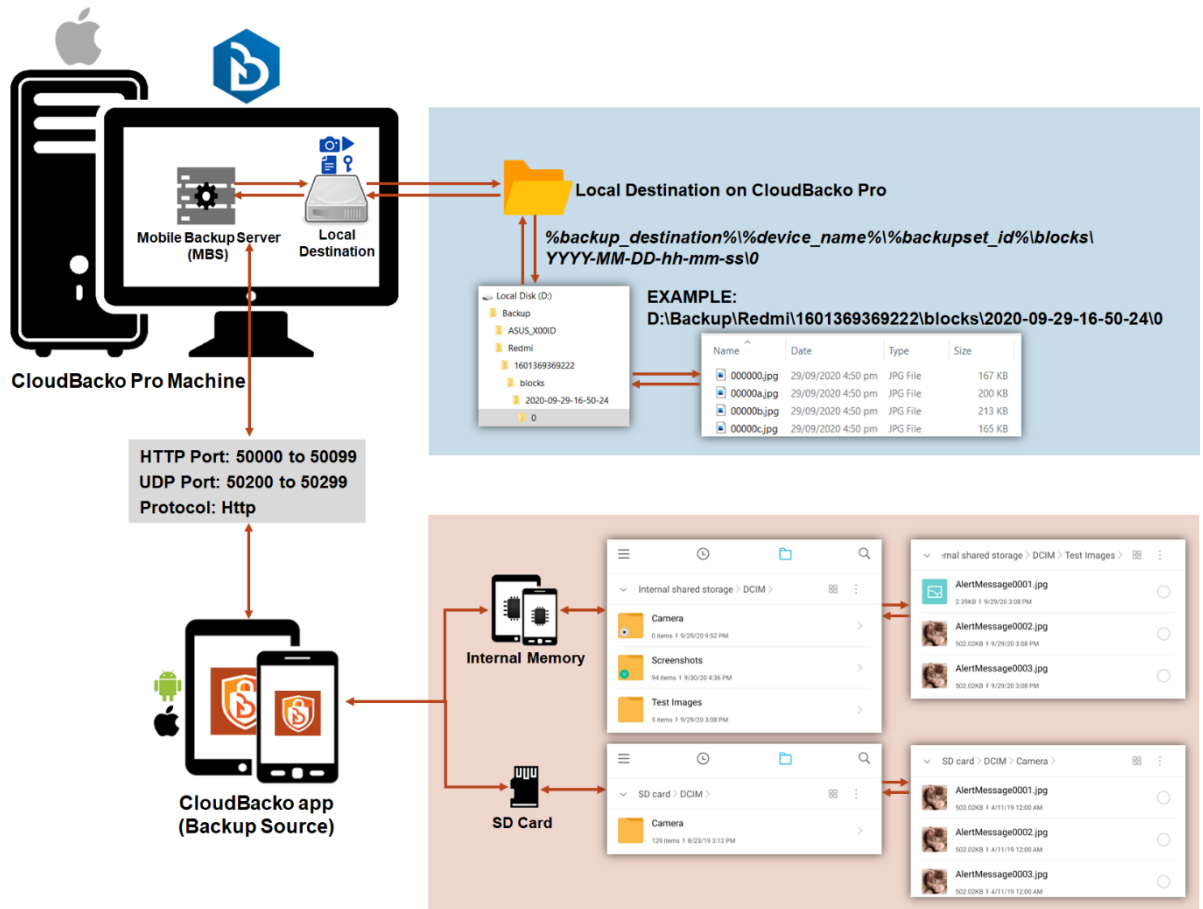
Prerequisites

- Please use the latest Mobile App version
- Please make sure below 2 ports are not blocked by any Firewall settings

TCP Port: 50000
UDP Port: 50200

Photos, videos, documents and 2FA accounts are either from mobile device’s internal memory or SD Card. These are selected as backup source using the CloudBacko app and are backed up to the local destination on the CloudBacko Pro machine, that can be a Hard Drive, Flash Drive, and/or Network Drive in their ORIGINAL format unencrypted. For Android, photos and videos will retain all EXIF. While for iOS, photos and videos will retain most of the EXIF including capture date, location, and lens.

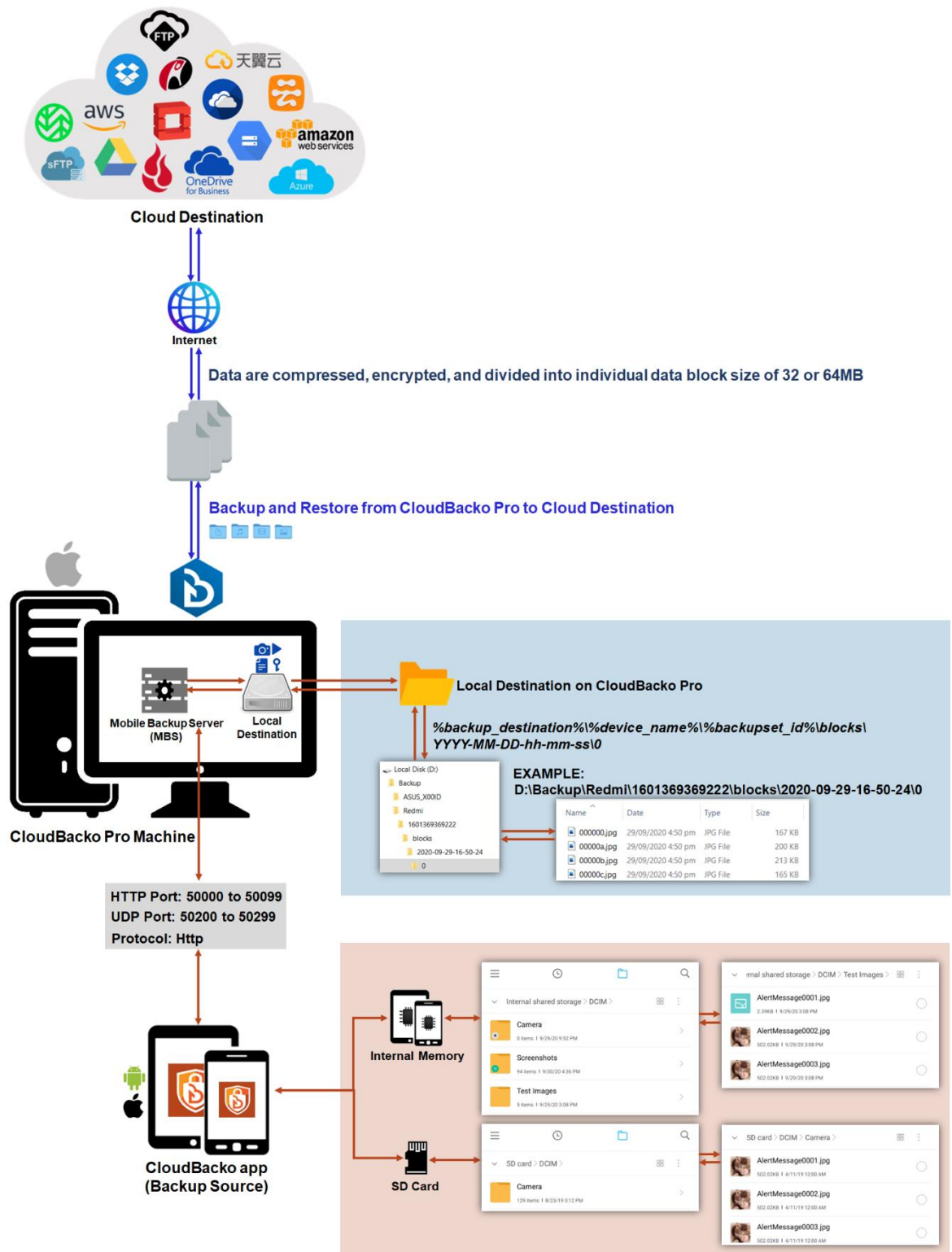
If storage of photos, videos, documents and 2FA accounts to a cloud destination is required, then this can be done using CloudBacko Pro to perform a secondary backup and restore of the photos, videos, documents and 2FA accounts on the local drive to the cloud.



To backup and restore photos, videos, documents and/or 2FA accounts from CloudBacko app to CloudBacko Pro and Cloud Destinations, is a two-step process.

1st: Backup of photos, videos, documents and/or 2FA accounts from CloudBacko app to CloudBacko Pro local destination.

2nd: Create a File backup set using CloudBacko Pro, using the local backup destination as the backup source, and then backup this backup set to the cloud destination.

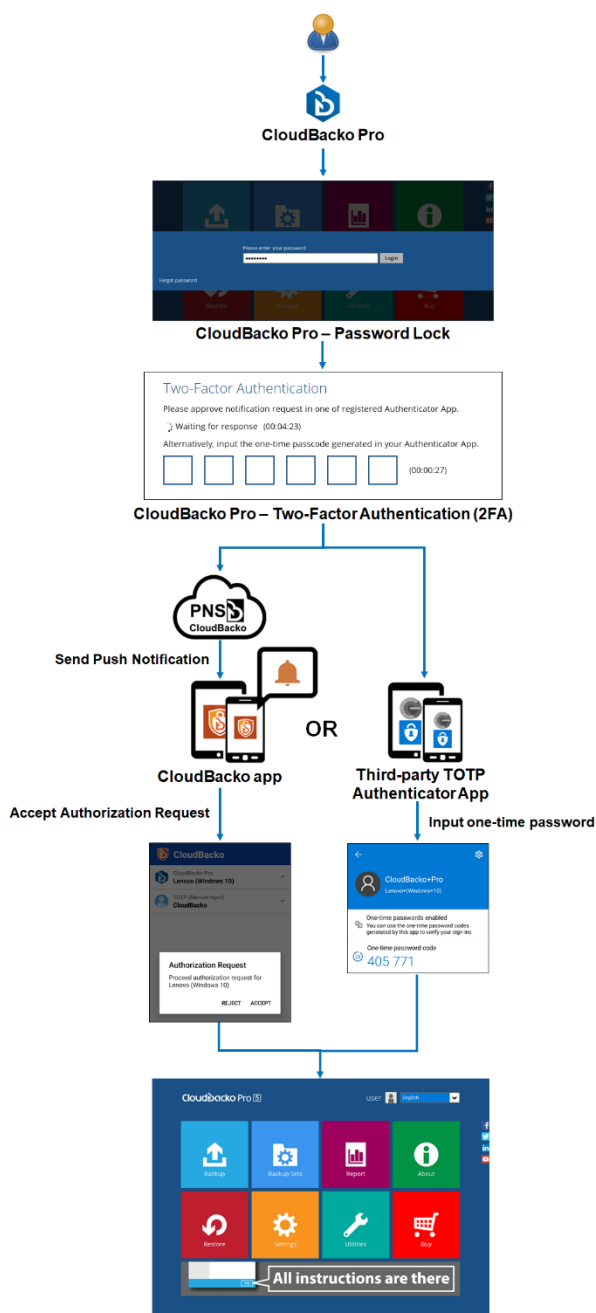


1.4 Two-Factor Authentication

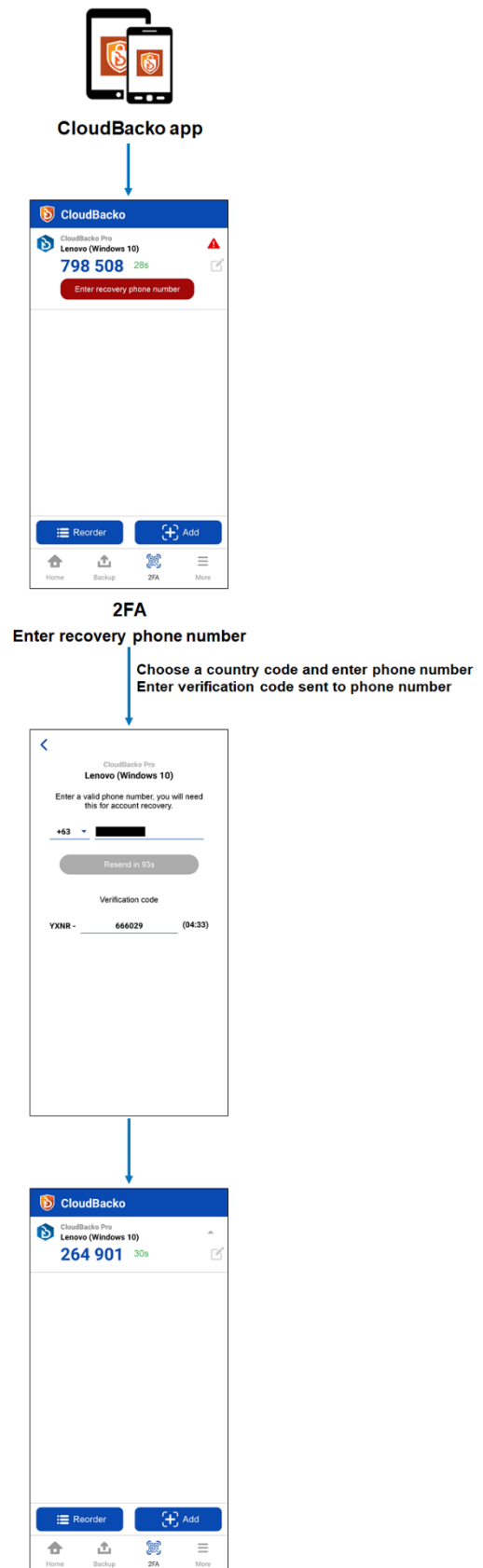
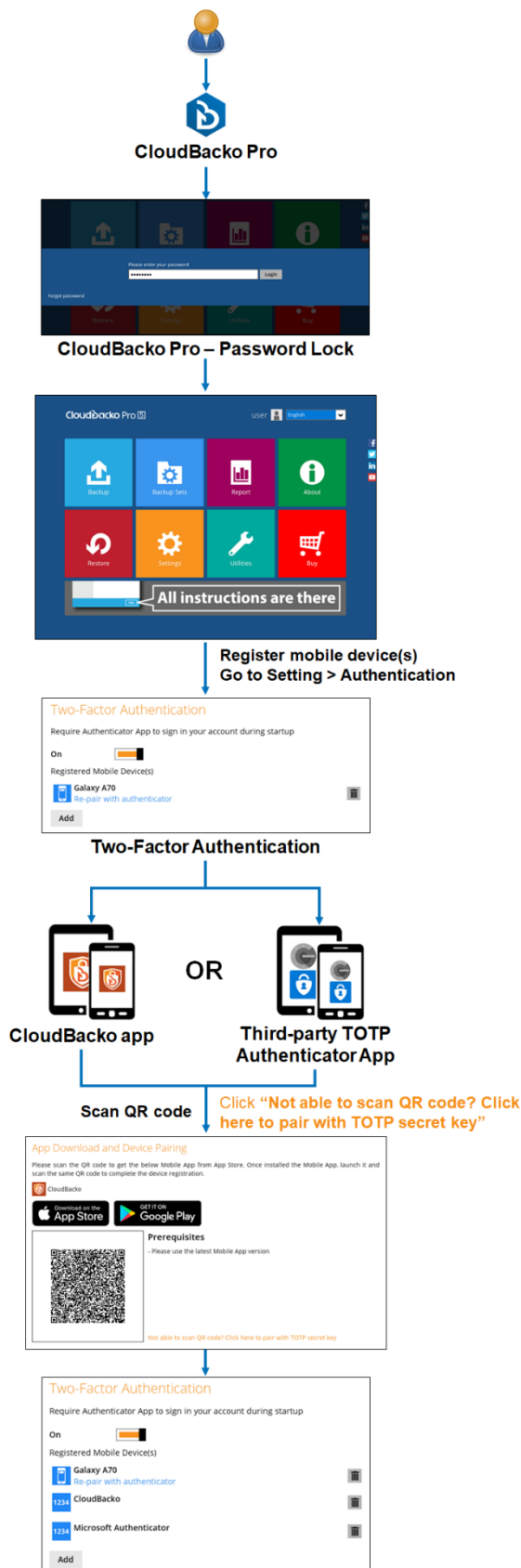
The two-factor authentication implemented on CloudBacko Pro include support for TOTP (Time-based One-time Password) and Push notification authentication using the CloudBacko app to provide additional security for the user login process.

Upon initial login, you will have an option to setup your two-factor authentication. You may skip the setup and do it later. If you continue the setup of two-factor authentication, it will be automatically enabled for your account. Several mobile devices may be added for authentication.

For log ins with two-factor authentication enabled, the 2FA method will depend on the authenticator app registered. You will either accept the login request via push notification in the CloudBacko app or enter a one-time password generated in the third-party authenticator app such as Authy, Duo, Google Authenticator, Microsoft Authenticator, LastPass etc.



This illustrates the registration of mobile devices for Two-Factor Authentication.



2 Requirements for CloudBacko app

2.1 Backup Software Version Requirement

- Download and install the latest version of CloudBacko Pro.
- Download and install the latest version of CloudBacko app on the Play Store for android mobile devices and on the App Store for iOS mobile devices.

2.2 Network Connection

Ensure that CloudBacko app is connected to the same local WIFI network with CloudBacko Pro. Failure to do so will prevent the CloudBacko app from performing backup/restore.

2.3 Android and iOS Version Requirement

- For Android device, Android version must be Android 8 or above.
- For Apple device, iOS version must be 12.0 or above.

3 Requirements for CloudBacko Pro on macOS

3.1 Hardware Requirements

Refer to the link below for details of the minimum and recommended requirements for installing CloudBacko Pro.

[CloudBacko Pro: Hardware Requirement](#)

3.2 Supported Platforms

Refer to the following link for details of the operating systems supported by CloudBacko Pro.

[CloudBacko Pro: Supported Operating Systems](#)

3.3 Internet Connection

CloudBacko machine must have a fixed internet connection

3.4 SMTP Server

- ▶ CloudBacko Pro supports TLS v1.2
- ▶ CloudBacko Pro supports SMTP server with or without authentication.

3.5 Firewall Settings

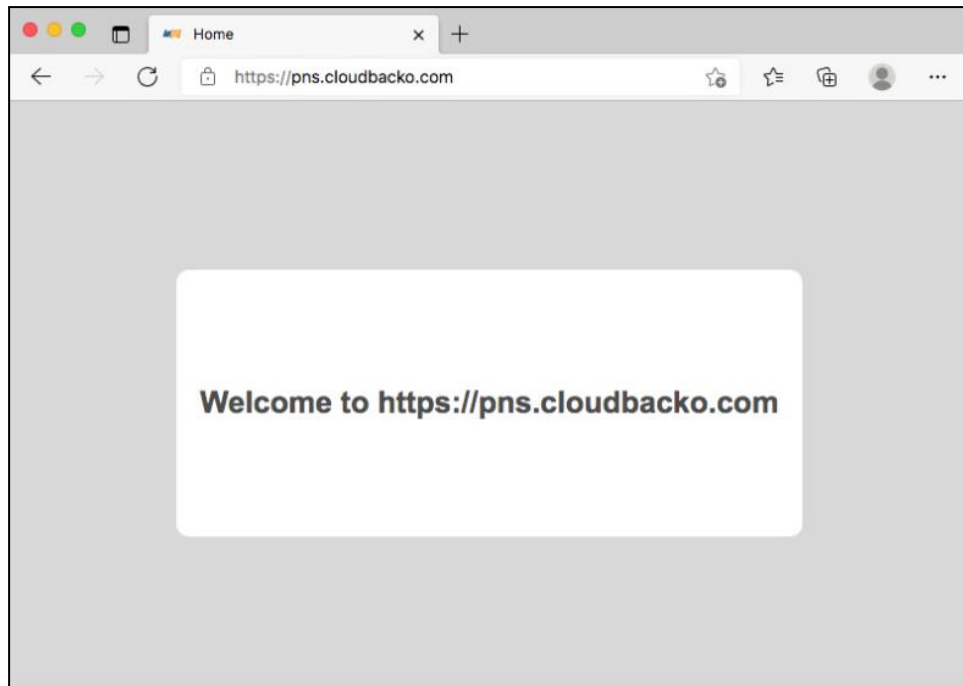
Make sure that your firewall settings allow network traffic through the following domain and/or ports:

- ▶ For CloudBacko Pro to function correctly must allow outbound connections to *.cloudbacko.com via port 80 and 443.
- ▶ For mobile backup inbound / outbound network traffic must be allowed through the following default ports: HTTP port: 50000 and UDP port: 50200.

The actual ports used may be different, please refer to [Chapter 1.3: Mobile Backup Server \(MBS\)](#) for more details.

- ▶ For CloudBacko app 2FA push notifications, firewall settings must allow outbound connection to **pns.cloudbacko.com** via port 80 and 443. Failure to do this will prevent you from using Push Notification feature for two-factor authentication.

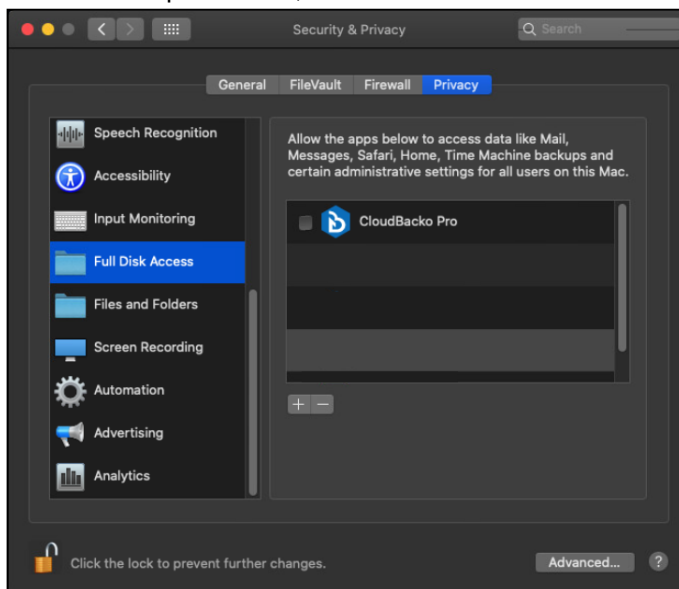
To check if the firewall is correctly configured, go to a browser, and enter **pns.cloudbacko.com**, there should be a welcome message to <https://pns.cloudbacko.com>. Below is a sample screenshot.



3.6 Full Disk Access Permission

macOS 10.15 or higher "Full Disk Access" permission needs to be granted in, **System Preferences>Security & Privacy>Privacy tab to CloudBacko Pro.**

Due to an upgrade in security on macOS 10.15 or higher, additional security settings are required to allow applications to access the machine. CloudBacko Pro requires "Full Disk Access" permission to be able to access your files for selection and backup. Also, without "Full Disk Access" permission, CloudBacko Pro will not be able to restore files to the machine.



For more details on how to setup the Full Disk Access permission, please refer to [Appendix C: Setting up Full Disk Access Permission](#).

3.7 Supported Applications

Refer to the link below for the details of the applications supported by CloudBacko Pro.

[CloudBacko Pro: Supported Applications](#)

3.8 Supported Microsoft 365 Services and Items

Refer to the link below for the details of the supported Microsoft 365 Services and Items for CloudBacko Pro.

[CloudBacko Pro: Supported Microsoft 365 Services and Items Microsoft 365 Backup](#)

3.9 Java Heap Size

The default maximum Java heap size setting is 2048M. This value is usually sufficient for most type of backups, however for backup sets with large number of files and or very large files the value may need to be increased.

Refer to the link below for the details on how to increase Java Heap Size for CloudBacko Pro.

[CloudBacko Pro: How to increase Java Heap Size](#)

3.10 Two-Factor Authentication Requirements

Please refer to the [CloudBacko App v1 User Guide for Android and iOS – Chapter 2.4](#) for details of the minimum and recommended requirements for using Two-Factor Authentication on CloudBacko app.

3.11 Mobile Device Requirements

Please refer to the [CloudBacko App v1 User Guide for Android and iOS – Chapter 2.5](#) for details of the minimum and recommended requirements for installing the CloudBacko app.

3.12 Date, Time, and Time Zone for 2FA (TOTP only)

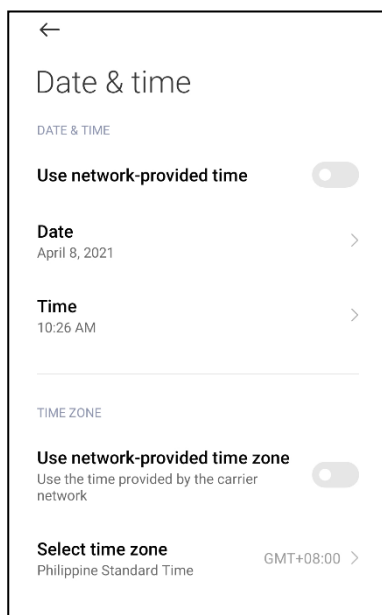
Make sure to check the date, time, and time zone are synced between the CloudBacko Pro machine and mobile device installed with CloudBacko app before pairing the device for 2FA (TOTP only) to avoid unsuccessful pairing of devices and/or TOTP authentication failures. This also applies to third-party TOTP Authenticators.

To check the date, time, and time zone, follow the instructions below. For a different date, time, and time zone and how to change it, refer to [Appendix H: Different Date, Time, and Time zone with CloudBacko Pro machine and mobile device](#).

Same Date, Time, and Time Zone with CloudBacko Pro machine and mobile device

1. Check the date, time, and time zone in mobile device.

Example: Time zone settings of a mobile device used in the Philippines (time zone GMT+08:00).



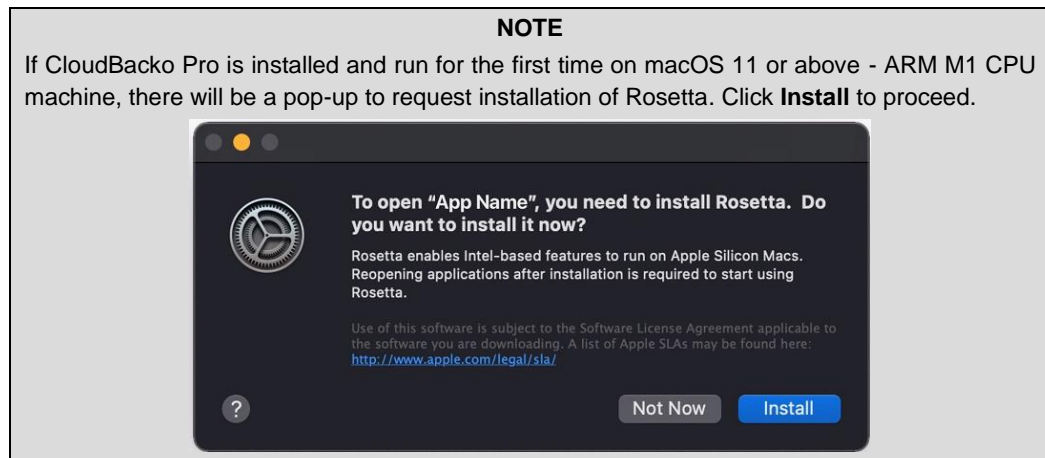
2. Check the date, time, and time zone in CloudBacko Pro machine.

Example: Time zone setting of a macOS machine used in the Philippines (time zone Asia).



3.13 Supported macOS Big Sur on Intel and ARM (M1) CPU

Supports macOS Big Sur on both Intel and ARM (M1) CPU. For macOS on ARM (M1) CPU, Rosetta 2 must be installed. Refer to the link for more details: [Apple Support: If you need to install Rosetta on your Mac](#)



3.14 Limitations

3.14.1 Case-Insensitive File System

For volume with a case-insensitive file system, target file of a symbolic link will be backed up twice (in both upper case and in lower case), hence, doubling the backup quota storage requirement.

3.14.2 Continuous Backup

Continuous Backup is only supported on Windows platform.

3.14.3 File Permissions

Backup of file permissions is enabled by default and the setting cannot be changed.

3.14.4 Installation on Root Drive

CloudBacko Pro must be installed on the root drive of a volume (e.g. /Applications/...).

3.14.5 Resource Fork Files

Resource fork files cannot be restored with CloudBacko installation on macOS 10.8 above.

3.14.6 Software Update

Automatic software updates are not supported on macOS.

To upgrade CloudBacko Pro, please download the latest version from the CloudBacko website.

Refer to “**Method 2: Upgrade with new CloudBacko installer**” in the article for more details: [How to upgrade to CloudBacko backup software](#)

4 Get Started with CloudBacko Pro

This quick start guide will walk you through the following six (6) major parts to get you started with using CloudBacko Pro.

Download and Install

Download and install
CloudBacko Pro on your Mac

Launch the App

Launch CloudBacko Pro

Setup 2FA and/or Mobile Backup

Register mobile device for 2FA and/or
mobile backup (optional)

Create a Backup Set

Create a backup set according to
your preferences

Run Backup Jobs

Run backup jobs to back up data

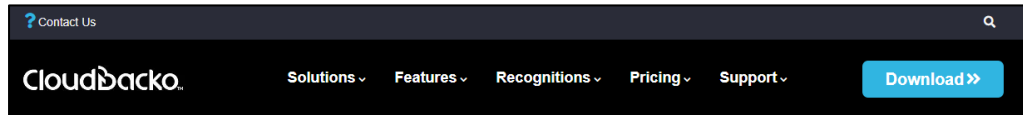
Restore Data

Restore backed up data to your
system

5 Download and Install CloudBacko Pro

5.1 Download CloudBacko Pro

1. In a web browser, go to the [CloudBacko](https://www.cloudbacko.com) website and click **Download**.



NOTE

Screenshot was taken as of 2023-September-13, it may be different in the future.

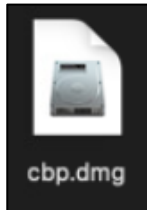
2. Click the **CloudBacko Pro/Lite (One time fee)**. In the **Free Download** section, you may choose the installer by operating system and click on their link to start the download. In this case, macOS (.dmg). This will download the installer to your machine.

The screenshot displays the 'Free Download' section of the CloudBacko website. It features a comparison table between CloudBacko Pro and CloudBacko Lite. The table is organized into three rows: Version, Description, and Free Download. The CloudBacko Pro column is highlighted in blue, and the CloudBacko Lite column is highlighted in red. The CloudBacko Pro/Lite (One time fee) button is selected in the top navigation bar.

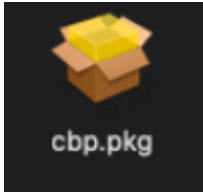
	CloudBacko Pro	Cloudbacko Lite
Version:	5.5.4.0	5.5.4.0
Description:	<p>CloudBacko Pro is a backup software designed for backing up business servers, applications, virtual machines, cloud data. It is applicable to all add-on modules.</p> <p>Note: CloudBacko does NOT provide any cloud storage space. You need to use your own public cloud storage account for storing your backup data if you need to backup to cloud.</p>	<p>CloudBacko Lite is a backup software designed for backing up Windows / Mac PCs and notebooks.</p> <p>Note: CloudBacko does NOT provide any cloud storage space. You need to use your own public cloud storage account for storing your backup data if you need to backup to cloud.</p>
Free Download:	Windows (.exe) macOS (.dmg) Linux 64-bit (.rpm) Linux 64-bit (.tar.gz) Linux 32-bit (.rpm) Linux 32-bit (.tar.gz) Ubuntu 64-bit (.deb) Ubuntu 32-bit (.deb)	Windows (.exe) macOS (.dmg)

5.2 Install CloudBacko Pro

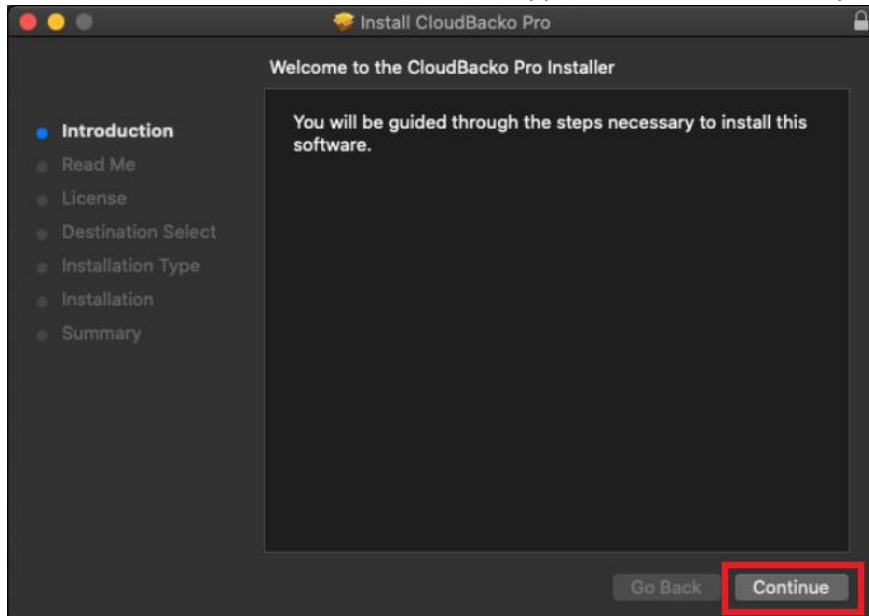
1. Double-click the icon of the downloaded .tar file. You will see then see a .dmg file.
Double-click this file.



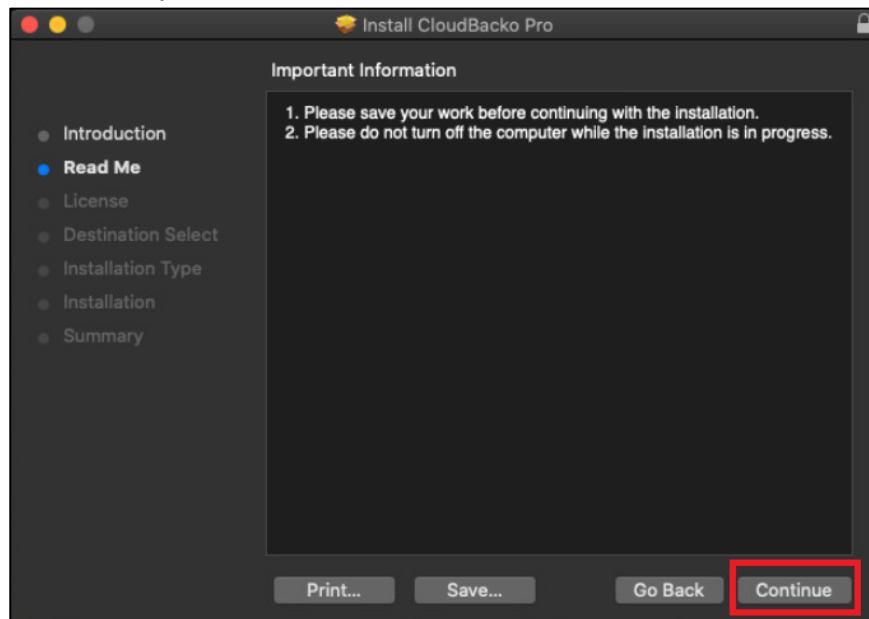
2. The CloudBacko Pro window will appear. You will see another file named **cbp.pkg**.



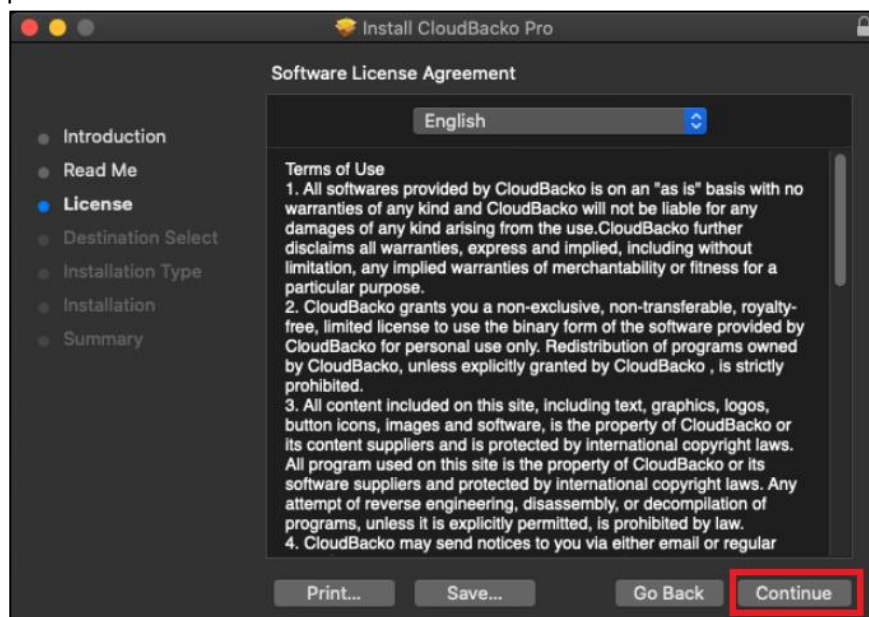
3. When the CloudBacko Pro Installer wizard appears, click **Continue** to proceed.



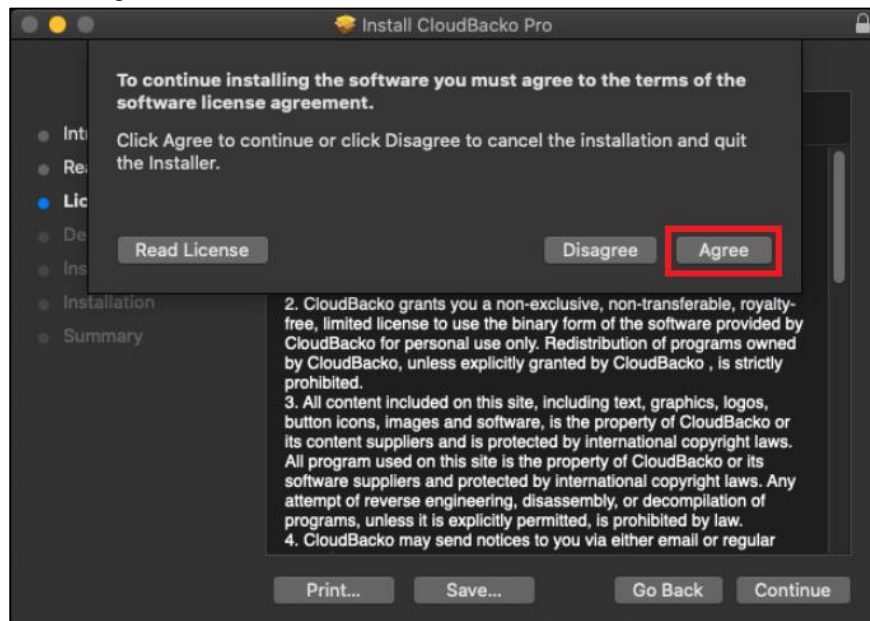
- When the Important Information screen appears, read the information and then click **Continue** to proceed.



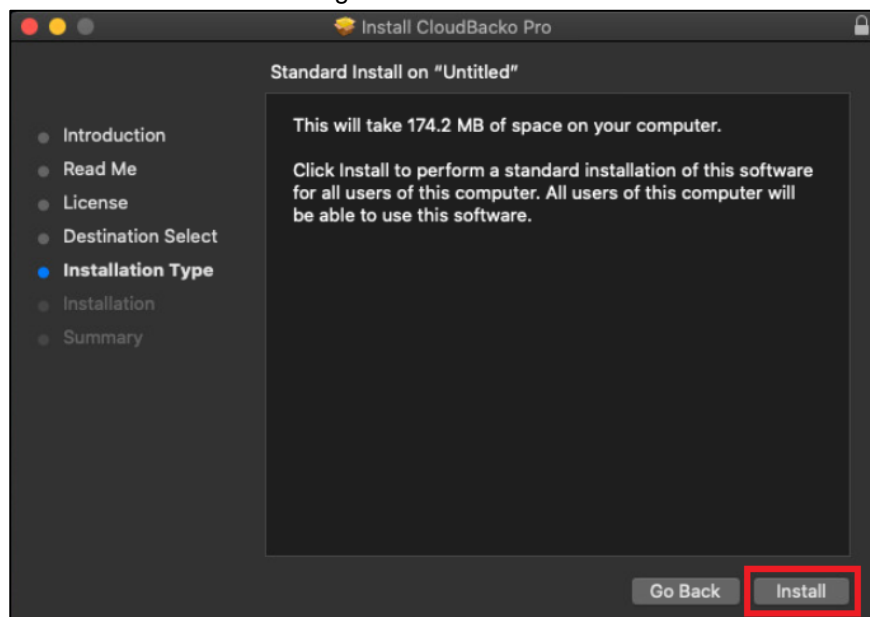
- When the Software License Agreement appears, the agreement content will be displayed in English by default. If you prefer to read it in a different language, click the dropdown menu to change the language. After reading the agreement carefully, click **Continue** to proceed.



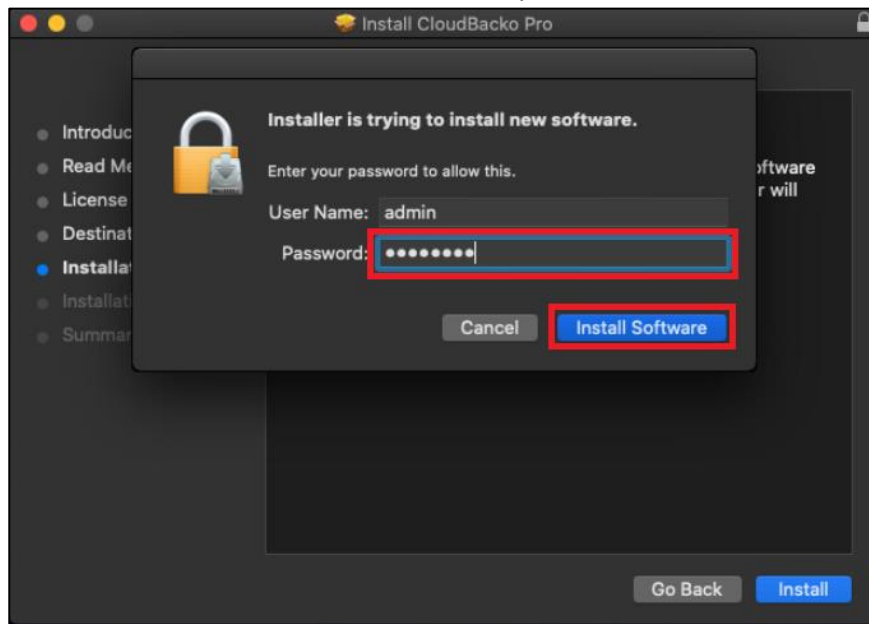
- The following message will appear in a pop-up window. Click **Agree** to accept the software license agreement.



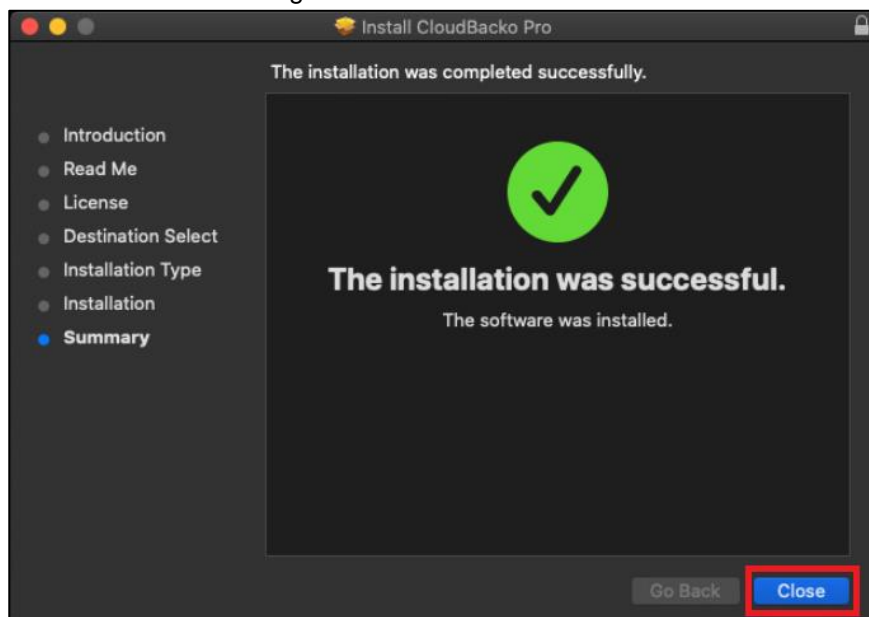
- Click **Install** to start installing CloudBacko Pro to the default location.



- The following message will appear in a pop-up window. Enter your macOS login credentials. Then, click **Install Software** to proceed with the installation.



- You will see the following screen when the installation of CloudBacko Pro is completed.



5.3 CloudBacko Pro Services

The CloudBacko Pro Services is a key component which regulates and controls several important functions on CloudBacko.

Function	Description
Scheduled Backups	Ensures that backup job which are setup to run at a certain date and or time are started.
Regular License Checks	Perform daily license checks to update the status of the license key.
Email Reports	Ensures backup error / warning report, missed backup report, and report, and storage alert report are sent to the customer according to the report settings.
Continuous Backups (Windows platform only)	Ensures that Continuous backups are run according to the backup interval.
Reminder (Windows platform only)	Ensures that a reminder popup is displayed when the last time a backup was run exceeded the tolerance period.
Mobile Backup Server (MBS)	<p>Ensure that registered mobile devices can perform backups to CloudBacko Pro.</p> <p>The MBS will be activated when a mobile device is registered for mobile backup on CloudBacko Pro.</p> <p>The MBS will be deactivated when all mobile devices have been deregistered from the mobile backup settings and the CloudBacko Pro services is restarted.</p>

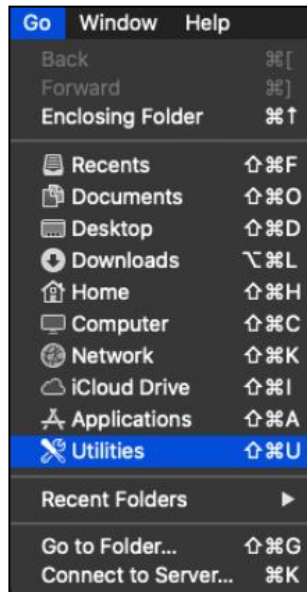
Therefore, it is very important to ensure the CloudBacko Pro Services is running after,

- a new CloudBacko installation
- a CloudBacko software update
- when the machine rebooted
- the machine is powered on
- the machine wakes up from hibernation or standby mode

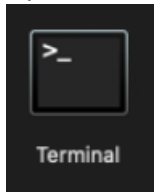
Otherwise, all of the functions above will stop working.

This option is used to kick automated or scheduled backup jobs.

1. To start, click **Go** at the top menu bar and select **Utilities**.



2. Open the **Terminal** application.



3. Use the command highlighted in **red** to enter the CloudBacko Pro folder.

```
[admins-Mac:bin admin$ cd /Applications/CloudBacko\ Pro.app/bin
[admins-Mac:bin admin$
```

4. To check if the CloudBacko Pro Services is running, use the `[admins-Mac:~ admin$ ps -ef|grep java` command. You will see that the CloudBacko Pro Services is running, highlighted in **red**.

```
admins-Mac:~ admin$ ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07 /Applications/ CloudBacko\
Pro.app /jvm/bin/ java -Xms128m -Xmx2048m -Djava.library.path=.
-cp ../cbs.jar cbs /Applications / CloudBacko\ Pro.app
501 5741 5705 0 9:05PM ttys000 0:00.00 grep java
```

There are two (2) options to **stop** and **start** the CloudBacko Pro Services.

Option 1

▶ Stop CloudBacko Pro Services

To **stop** the CloudBacko Pro Services, use the command highlighted in **red**. If you run this command for the first time, you will need to enter the login password of your local machine.

To check if the CloudBacko Pro Services has stopped running, use the

`[admins-Mac:~ admin$ ps -ef|grep java` command.

```
admins-Mac:~ admin$ sudo /Applications/CloudBacko\
Pro.app/bin/StopScheduler.sh
Password:
admins-Mac:~ admin$ ps -ef|grep java
501 5721 5705 0 9:02PM ttys000 0:00.00 grep java
```

▶ Start CloudBacko Pro Services

Use the command highlighted in **red** to **start** the CloudBacko Pro Services then use the `[admins-Mac:~ admin$ ps -ef|grep java` command. You will see that the CloudBacko Pro Services is running, highlighted in **red**.

```
admins-Mac:~ admin$ sudo /Applications/CloudBacko\ Pro.app
/bin/Scheduler.sh
admins-Mac:~ admin$ ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07 /Applications/ CloudBacko Pro.app
/jvm/bin/java -Xms128m -Xmx768m -Djava.library.path=. -
cp ../cbs.jar cbs
/Applications/CloudBacko Pro.app
501 5741 5705 0 9:05PM ttys000 0:00.00 grep java
```

Option 2

Stop CloudBacko Pro Services

To **stop** the CloudBacko Pro Services, use the command highlighted in **red**. Use the `admins-Mac:~ admin$ ps -ef|grep java` command to check if the CloudBacko Pro Services has stopped running.

```
admins-Mac:~ admin$ sudo launchctl unload -F
/Applications/CloudBacko\ Pro.app/bin/com.cb.scheduler.plist
Password:
admins-Mac:~ admin$ ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07 /Applications/CloudBacko Pro.app
/jvm/bin/java -Xms128m -Xmx768m -Djava.library.path=. -
cp ../cbs.jar cbs
/Applications/CloudBacko Pro.app
501 5741 5705 0 9:05PM ttys000 0:00.00 grep java
```

Start CloudBacko Pro Services

Use the command highlighted in **red** to start the CloudBacko Pro Services then use the `admins-Mac:~ admin$ ps -ef|grep java` command.

You will see that the CloudBacko Pro Services is running, highlighted in **red**.

```
admins-Mac:~ admin$ sudo launchctl load -F /Applications/CloudBacko\
Pro.app/bin/com.cb.scheduler.plist
Password:
admins-Mac:~ admin$ ps -ef|grep java
0 5805 1 0 9:21PM ?? 0:01.92 /Applications/CloudBacko
Pro.app/jvm/bin/java -
Xms128m -Xmx768m - Djava.class.path=/Applications/CloudBacko Pro.app
/bin:/Applications/CloudBacko Pro.app/bin/cbs.jar -
Djava.library.path=/Appli
cations/CloudBacko Pro.app/bin cbs /Applications/CloudBacko Pro.app
501 5811 5793 0 9:21PM ttys000 0:00.00 grep java
```

5.4 RunLevel Symlink Check

During installation, the following symlinks to the CloudBacko Pro Services startup script **/Applications/CloudBacko Pro.app/bin/com.cb.scheduler.plist** will be created that allows the CloudBacko Pro Services to start automatically each time the machine is rebooted or restarted.

To verify if the symlinks have been created correctly, use the

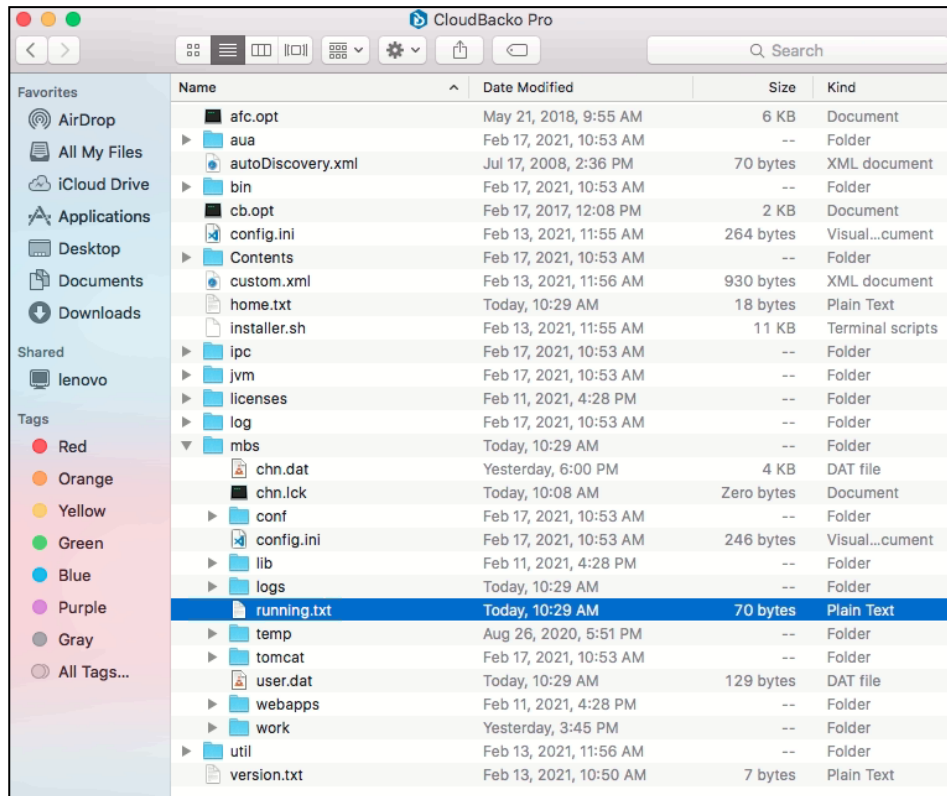
`[admins-Mac-5:~ admin$ ls -la /Library/LaunchDaemons/` command. You will see the symlink, highlighted in red.

```
admins-Mac:~ admin$ ls -la /Library/LaunchDaemons/
total 128
drwxr-xr-x+ 8 root wheel 272 Dec 1 14:34 .
lrwxr-xr-x  1 root wheel 59 Dec 1 11:21 com.CloudBacko Pro.scheduler.plist
-> /Applications/CloudBacko Pro.app/bin/com.cb.scheduler.plist
admins-Mac:~ admin$
```

5.5 Mobile Backup Server (MBS) Health Check and CloudBacko app connection Check

Before starting a backup on your mobile device, check the following first:

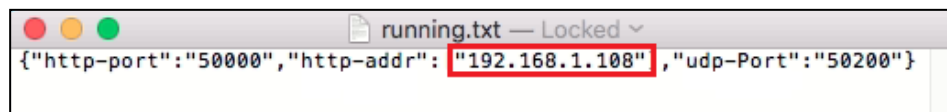
1. Check IP address, HTTP port, and UDP port in the “running.txt” file. Go to */Applications/CloudBacko Pro/mbs*.



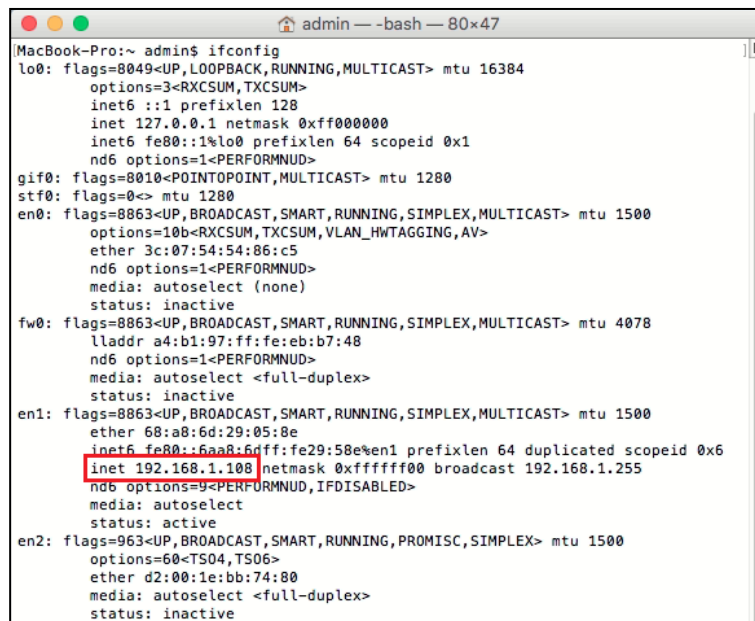
NOTE

If the “running.txt” file does not exist then the MBS is not running, restart the CloudBacko Pro services

After opening the file it will show the HTTP port, IP address, and UDP port which are in actual use by the MBS.



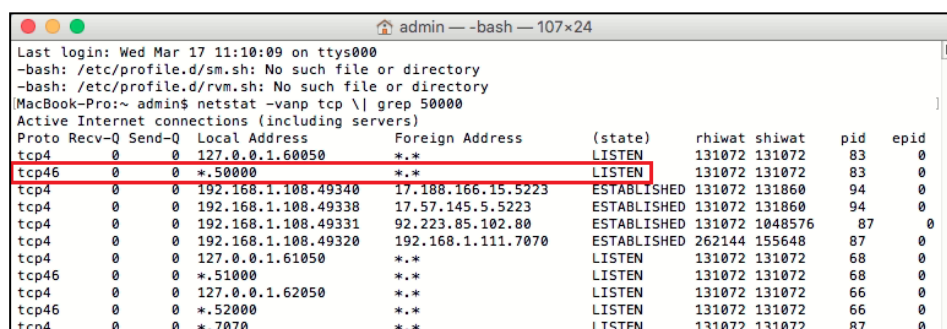
- Open a command prompt and check if the IP address captured in the running.txt is the correct IP address of the machine where CloudBacko Pro is installed.



```
MacBook-Pro:~ admin$ ifconfig
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
options=3<RXCSUM,TXCSUM>
inet6 ::1 prefixlen 128
inet 127.0.0.1 netmask 0xff000000
inet6 fe80::1%lo0 prefixlen 64 scopeid 0x1
nd6 options=1<PERFORMNUD>
gif0: flags=8010<POINTOPOINT,MULTICAST> mtu 1280
stf0: flags=0<> mtu 1280
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
options=10b<RXCSUM,TXCSUM,VLAN_HWTAGGING,AV>
ether 3c:07:54:54:86:c5
nd6 options=1<PERFORMNUD>
media: autoselect (none)
status: inactive
fw0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 4078
lladdr a4:b1:97:ff:fe:eb:b7:48
nd6 options=1<PERFORMNUD>
media: autoselect <full-duplex>
status: inactive
en1: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
ether 68:a8:6d:29:05:8e
inet6 fe80::6aa8:6dff:fe29:58e%en1 prefixlen 64 duplicated scopeid 0x6
inet 192.168.1.108 netmask 0xfffff00 broadcast 192.168.1.255
nd6 options=9<PERFORMNUD,IFDISABLED>
media: autoselect
status: active
en2: flags=963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX> mtu 1500
options=60<TSO4,TSO6>
ether d2:00:1e:bb:74:80
media: autoselect <full-duplex>
status: inactive
```

- To verify the actual HTTP port used by MBS, type the command:

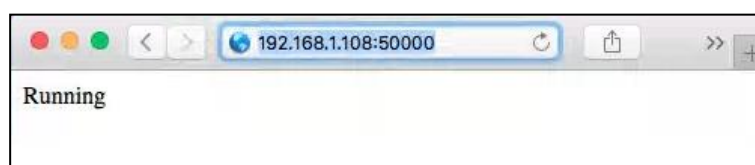
MacBook-Pro:~ admin\$ netstat -vanp tcp \| grep 50000



```
MacBook-Pro:~ admin$ netstat -vanp tcp \| grep 50000
Active Internet connections (including servers)
Proto Recv-Q Send-Q Local Address Foreign Address (state) rhiwat shiwat pid epid
tcp4 0 0 127.0.0.1.60050 *.* LISTEN 131072 131072 83 0
tcp46 0 0 *.50000 *.* LISTEN 131072 131072 83 0
tcp4 0 0 192.168.1.108.49340 17.188.166.15.5223 ESTABLISHED 131072 131860 94 0
tcp4 0 0 192.168.1.108.49338 17.57.145.5.5223 ESTABLISHED 131072 131860 94 0
tcp4 0 0 192.168.1.108.49331 92.223.85.102.80 ESTABLISHED 131072 1048576 87 0
tcp4 0 0 192.168.1.108.49320 192.168.1.111.7070 ESTABLISHED 262144 155648 87 0
tcp4 0 0 127.0.0.1.61050 *.* LISTEN 131072 131072 68 0
tcp46 0 0 *.51000 *.* LISTEN 131072 131072 68 0
tcp4 0 0 127.0.0.1.62050 *.* LISTEN 131072 131072 66 0
tcp46 0 0 *.52000 *.* LISTEN 131072 131072 66 0
tcp4 0 0 *.7070 *.* LISTEN 131072 131072 87 0
```

- Make sure that your firewall setting allows network traffic through the following HTTP and UDP ports to ensure that the communication between your machine and mobile device is successful, otherwise mobile backup and restore will not work.
- To perform a health check on the MBS. Open a browser on the CloudBacko Pro machine and type the IP address, followed by TCP port.

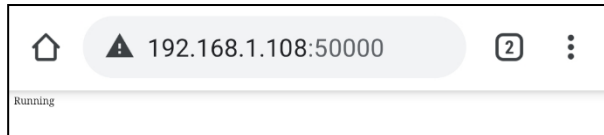
For example: If the HTTP port used is 50000, <http://192.168.108:50000> you should get the following result that shows the “Running” status, which mean the MBS is running.



6. To run a connection test between the mobile device and machine open a browser in your mobile device and type the IP address, followed by TCP port.

For example: If the HTTP port used is 50000, `http://192.168.108:50000` you should get the following result, which shows “Running” status. Which means the CloudBacko app can successfully connect to the MBS and both backup and restore can proceed on the mobile device.

In the mobile device



6 Start CloudBacko Pro

Several scenarios will be encountered during log in. Log in steps for the different scenarios will be discussed in this chapter.

- [Launch CloudBacko Pro without 2FA](#)
- [Launch CloudBacko Pro with 2FA](#)

6.1 Launch CloudBacko Pro without 2FA

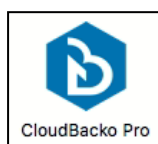
To launch to CloudBacko Pro without two-factor authentication follow the steps below:

- [Initial launch skipping two-factor authentication and mobile backup features setup](#)
- [Subsequent logins without 2FA but with password lock](#)
- [Subsequent logins without 2FA and password lock](#)

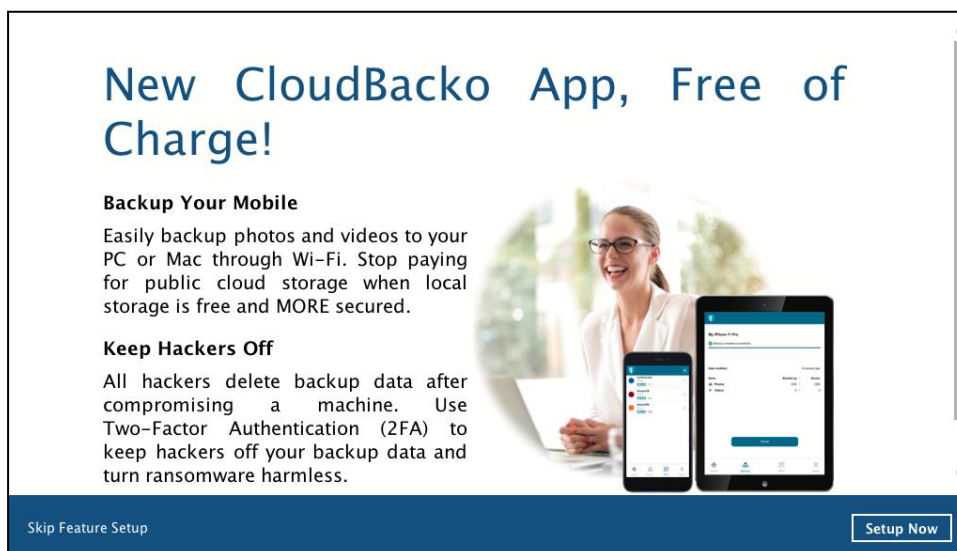
6.1.1 Initial launch skipping two-factor authentication and mobile backup features setup

When launching the CloudBacko Pro for the first time and skipping the two-factor authentication feature setup, please follow the steps below:

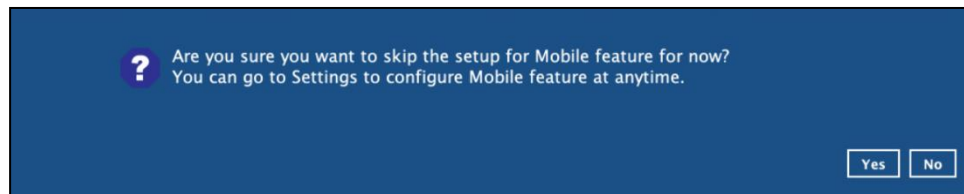
1. A shortcut icon of CloudBacko Pro will be available on your desktop after installation. Double-click the icon to launch the application.



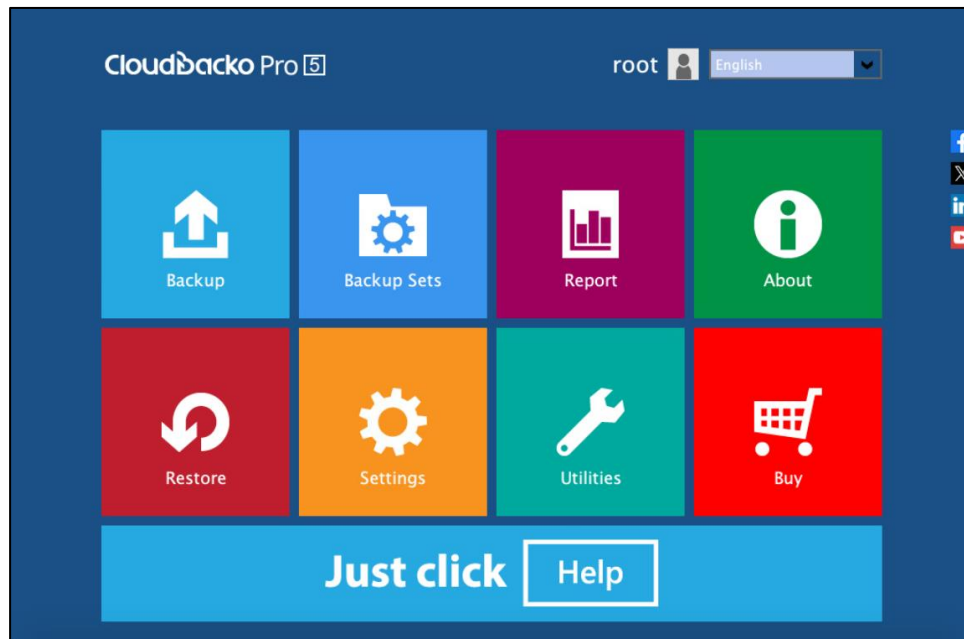
2. The following screen will be displayed. Click **Skip Feature Setup**.



3. Click **Yes** in the pop-up message that will be displayed. Otherwise, click **No** to continue with the set-up of mobile feature.



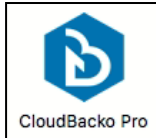
4. CloudBacko Pro main screen will appear.



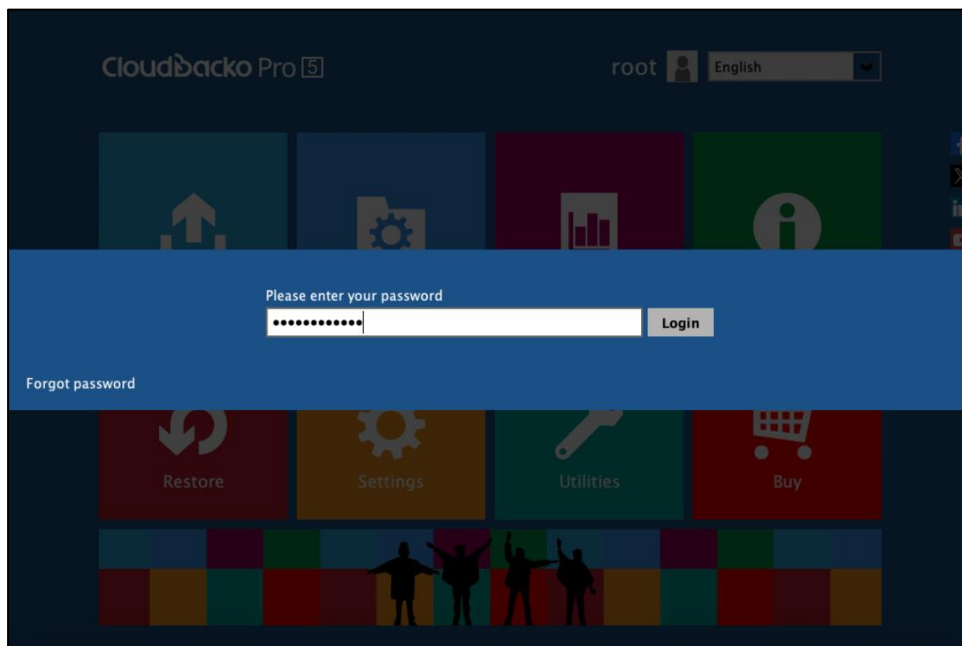
6.1.2 Subsequent logins without 2FA but with password lock

For succeeding logins to CloudBacko Pro with password lock and no two-factor authentication, please follow the steps below:

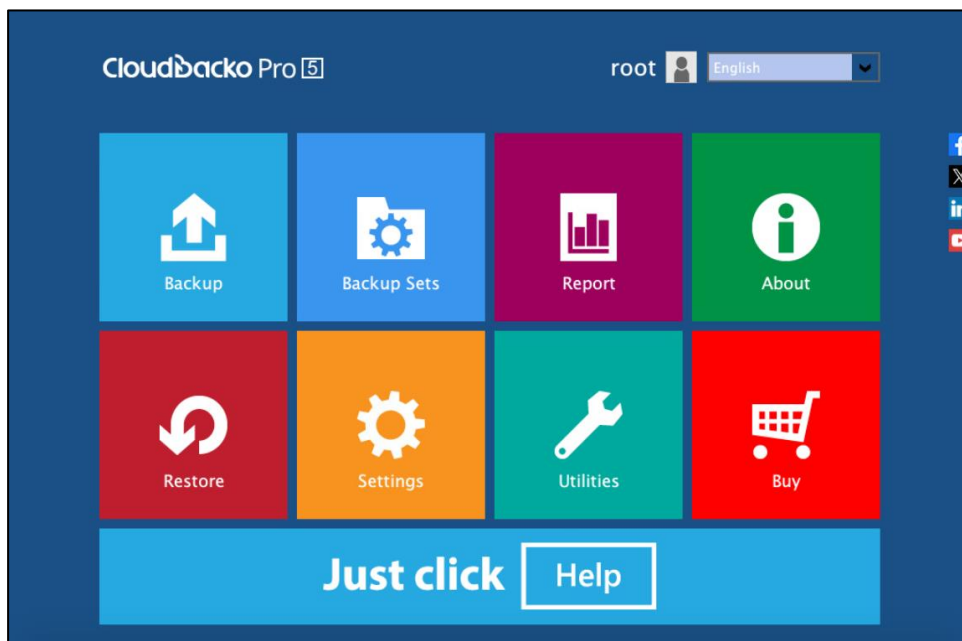
1. A shortcut icon of CloudBacko Pro will be available on your desktop after installation. Double click the icon to launch the application.



2. Enter password. If you forgot your password, click the **Forgot password** link.



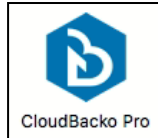
3. CloudBacko Pro main screen will appear.



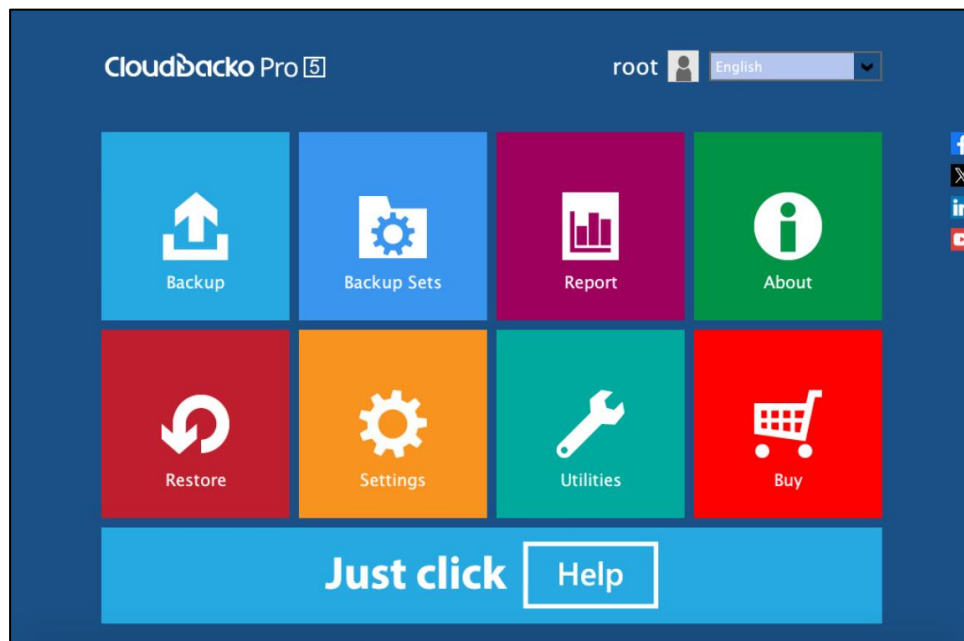
6.1.3 Subsequent logins without 2FA and password lock

For succeeding logins to CloudBacko Pro without password lock and two-factor authentication, please follow the steps below:

1. A shortcut icon of CloudBacko Pro will be available on your desktop after installation. Double click the icon to launch the application.



2. CloudBacko Pro main screen will appear.



6.2 Launch CloudBacko Pro with 2FA using Android or iOS mobile device

There are two types of Authenticator that can be used for 2FA:

- **CloudBacko app Authenticator**
 - Supports two types of authentication:
 - Push Notification
 - TOTP
 - Can be configured to support two 2FA modes:
 - Push Notification and TOTP (default mode) or,
 - TOTP only
- **Third-party TOTP Authenticator**
(e.g. Auth, Duo, Google)

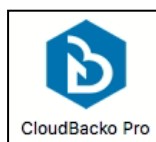
To launch to CloudBacko Pro with two-factor authentication follow the steps below:

- [Initial launch setting up two-factor authentication and mobile backup features](#)
- [Subsequent logins with 2FA](#)
- [Subsequent logins with 2FA and password lock](#)

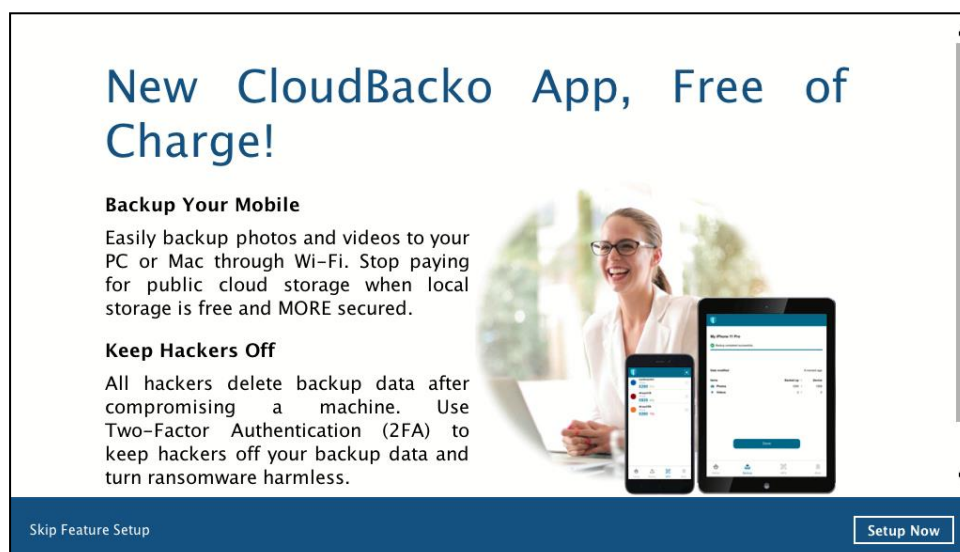
6.2.1 Initial launch setting up two-factor authentication and mobile backup features

When launching CloudBacko Pro for the first time and setting up the two-factor authentication feature, please follow the steps below:

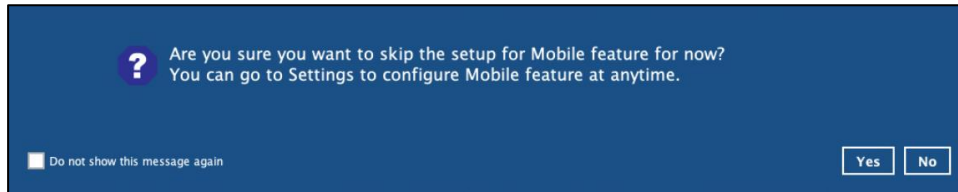
1. A shortcut icon of CloudBacko Pro will be available on your desktop after installation. Double click the icon to launch the application.



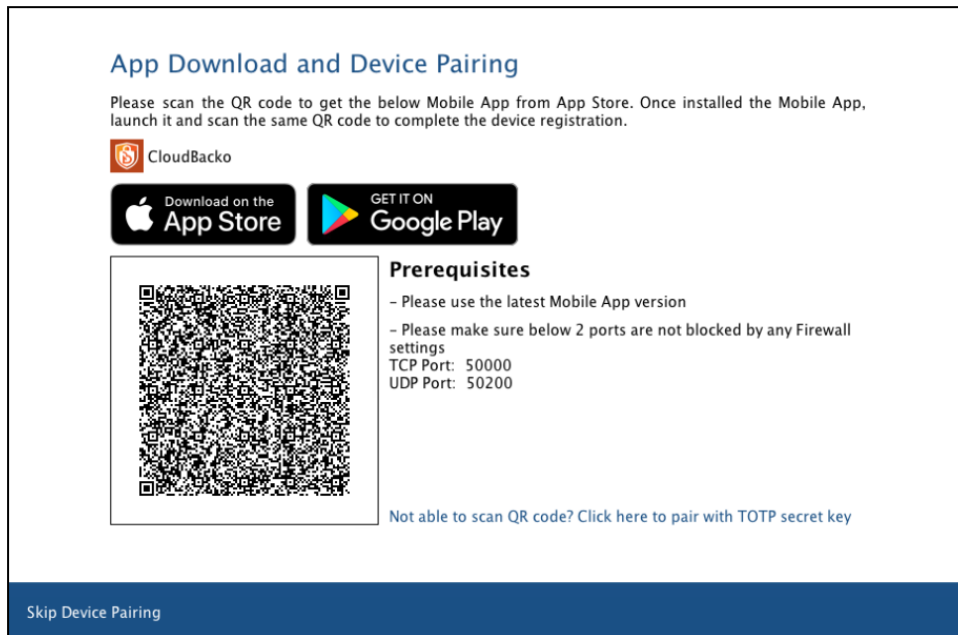
2. You will have the option to set up your mobile backup. Click **Setup Now**.



If you do not want to set up the mobile feature, click the **Skip Feature Setup** link. Click **Yes** in the pop-up message that will be displayed. Otherwise, click **No** to continue with the set-up of mobile feature.



3. Download the CloudBacko app from Google Play for an Android device and from App Store for an iOS device. Click **Next**.



4. CloudBacko app supports two types of authentication method:

- Push Notification
- TOTP

CloudBacko app can be configured to support two 2FA modes:


- [Push Notification and TOTP \(default mode\)](#) or,
- [TOTP only](#)



Push Notification and TOTP (default mode)

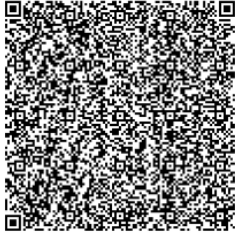
- i. Scan the QR code to complete the device registration for two-factor authentication (Push Notification and TOTP) feature.

App Download and Device Pairing

Please scan the QR code to get the below Mobile App from App Store. Once installed the Mobile App, launch it and scan the same QR code to complete the device registration.


CloudBacko





Prerequisites

- Please use the latest Mobile App version
- Please make sure below 2 ports are not blocked by any Firewall settings
 - TCP Port: 50000
 - UDP Port: 50200

[Not able to scan QR code? Click here to pair with TOTP secret key](#)

- ii. In the CloudBacko app, go to **2FA**. Tap the **Scan QR code in your application** link to scan the QR Code on the CloudBacko Pro.






CloudBacko




You have not connected to any account yet.

Launch your CloudBacko application on local PC or Mac, go to User Settings -> Authentication to configure the two-factor authentication for your backup account.


[Scan QR code in your application](#)

Home
Backup
2FA
More


CloudBacko

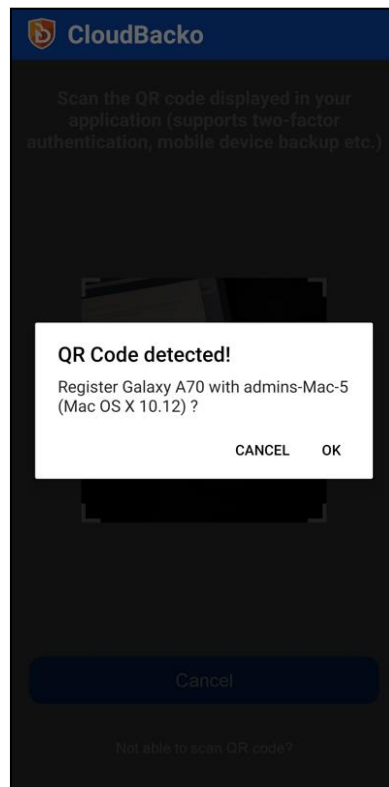
Scan the QR code displayed in your application (supports two-factor authentication, mobile device backup etc.)



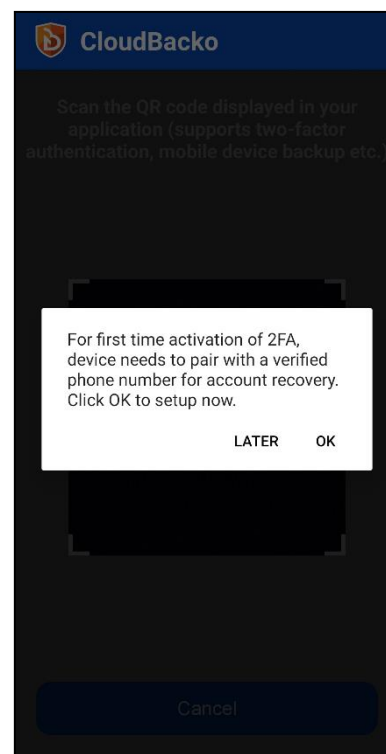
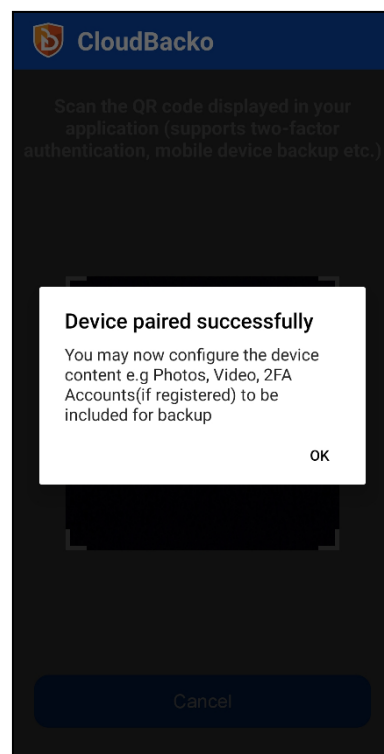
[Cancel](#)

Not able to scan QR code?

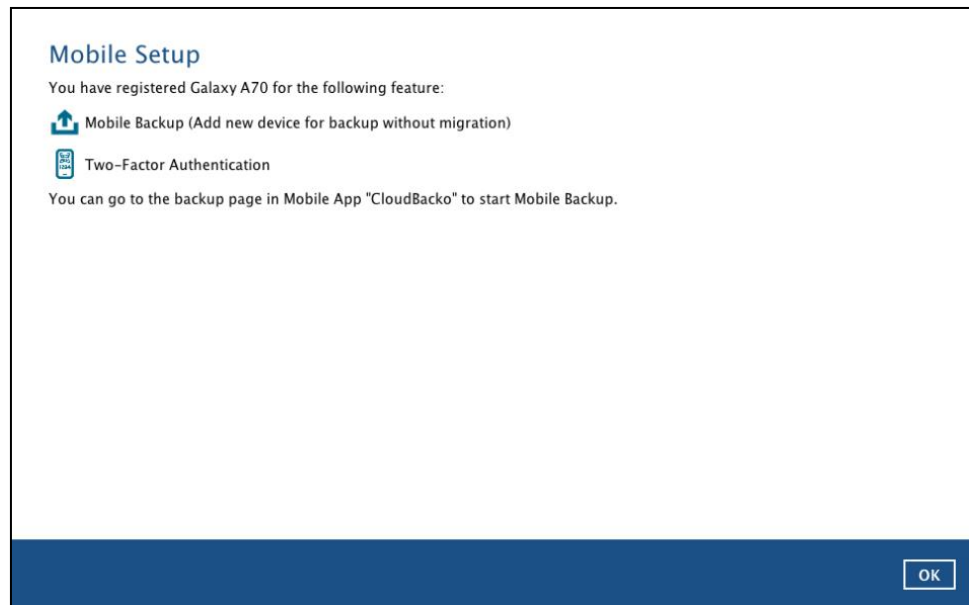
- iii. QR Code is detected, tap **OK** to proceed.



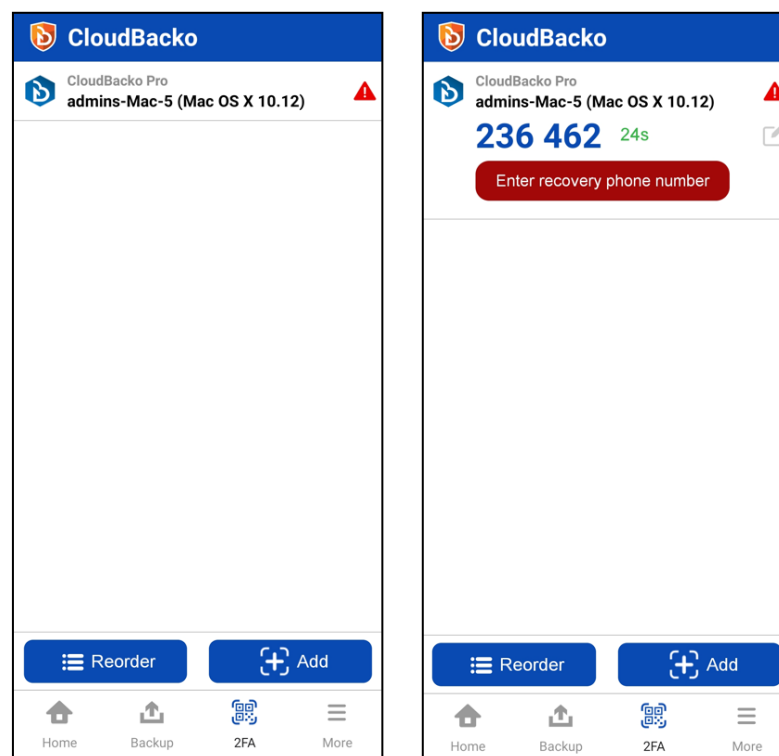
Device paired successfully.



- iv. Once the registration is successful, the following screen will be displayed. You have now registered your device for two-factor authentication then click **OK**.



- v. In the CloudBacko app, go to 2FA to enter the phone number for account recovery. Tap **Enter recovery phone number**.



NOTE

Although push notification and TOTP will still work if the recovery phone number registration is not completed, it is still strongly recommended to complete step v as you will not be able to access the CloudBacko Pro if you lose your mobile device which also means loss of access to backup data.

Select your country code and enter your phone number then click **Send SMS verification code.**

CloudBacko Pro

admins-Mac-5 (Mac OS X 10.12)

Enter a valid phone number, you will need this for account recovery.

+63

Send SMS verification code

CloudBacko Pro

admins-Mac-5 (Mac OS X 10.12)

Enter a valid phone number, you will need this for account recovery.

+63

Send SMS verification code

Enter the verification code sent to your mobile device.

CloudBacko Pro

admins-Mac-5 (Mac OS X 10.12)

Enter a valid phone number, you will need this for account recovery.

+63

Resend in 103s

Verification code

KFMO - (04:43)

CloudBacko Pro

admins-Mac-5 (Mac OS X 10.12)

Enter a valid phone number, you will need this for account recovery.

+63

Resend in 71s

Verification code

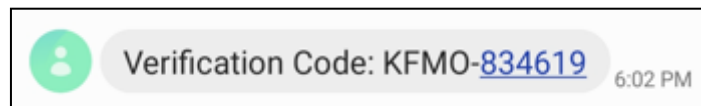
Verification success

OK

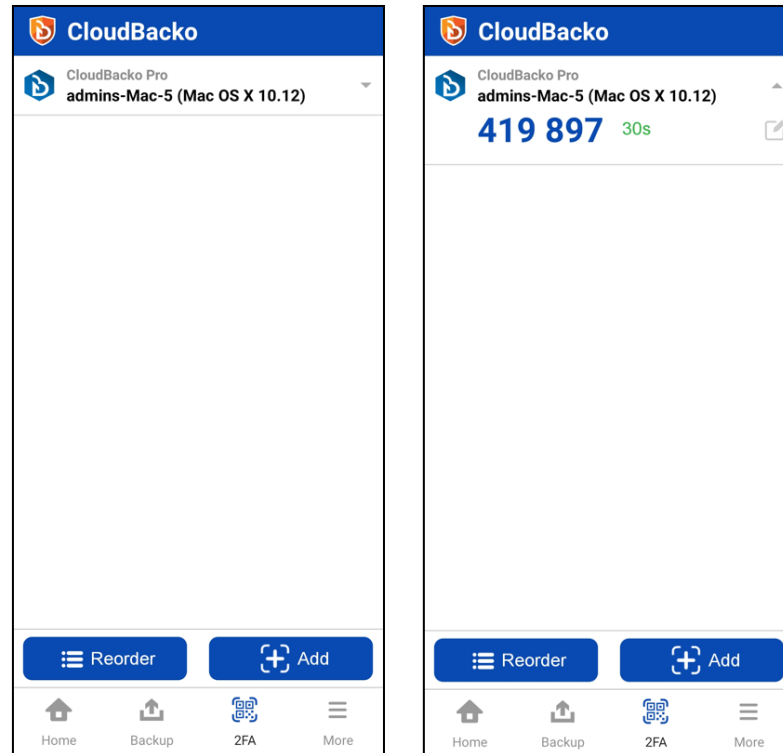
1234567890

Done

Sample verification code.



Successfully verified the phone number for account recovery.





TOTP only

- i. Click [Not able to scan QR code? Click here to pair with TOTP secret key](#) link to complete the device registration for two-factor authentication (TOTP only) feature.

App Download and Device Pairing

Please scan the QR code to get the below Mobile App from App Store. Once installed the Mobile App, launch it and scan the same QR code to complete the device registration.

 CloudBacko




Prerequisites


- Please use the latest Mobile App version
- Please make sure below 2 ports are not blocked by any Firewall settings
TCP Port: 50000
UDP Port: 50200

[Not able to scan QR code? Click here to pair with TOTP secret key](#)

- ii. In the CloudBacko app, go to **2FA**. Tap the [Not able to scan QR code?](#) link.

 CloudBacko

Scan the QR code displayed in your application
(supports two-factor authentication, mobile device backup etc.)



Cancel

[Not able to scan QR code?](#)

× **Connect using Secret Key**

Key in the Secret Key provided by the app

Username

Secret Key


Connect



[Scan QR Code](#)


To see the secret key, click the [Show Secret Key](#) link to display the 16-digit secret key. And enter the display name.

App Download and Device Pairing

Please scan the QR code to get the below Mobile App from App Store. Once installed the Mobile App, launch it and scan the same QR code to complete the device registration.

 CloudBacko







[Show Secret Key](#)
 Enter one-time passcode generated from authenticator app
 (00:00:22)
 Display name:

Skip Device Pairing

Once [Show Secret Key](#) is clicked, it will be displayed.




Secret Key: GN6A NQYV LE55 FNHU

Enter one-time passcode generated from authenticator app
 (00:00:14)

Display name:

Skip Device Pairing

- iii. Enter the Username and Secret Key from CloudBacko Pro then tap **Connect** then **OK**.


Connect using Secret Key

Key in the Secret Key provided by the app


CloudBacko

.....

Connect

CloudBacko

q w e r t y u i o p
a s d f g h j k l
↑ z x c v b n m
?123 , .


Connect using Secret Key

Key in the Secret Key provided by the app

CloudBacko

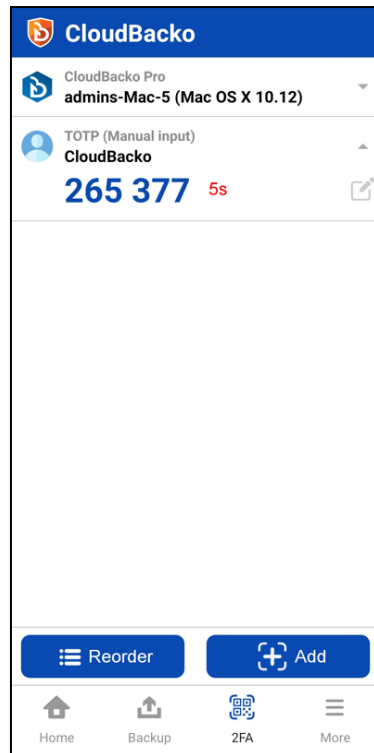
.....

Device paired successfully

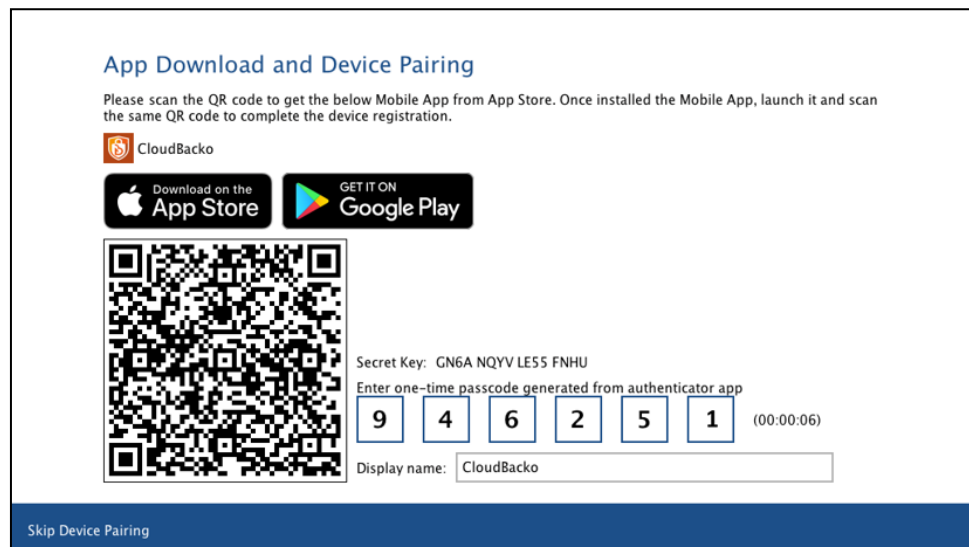
OK

Connect

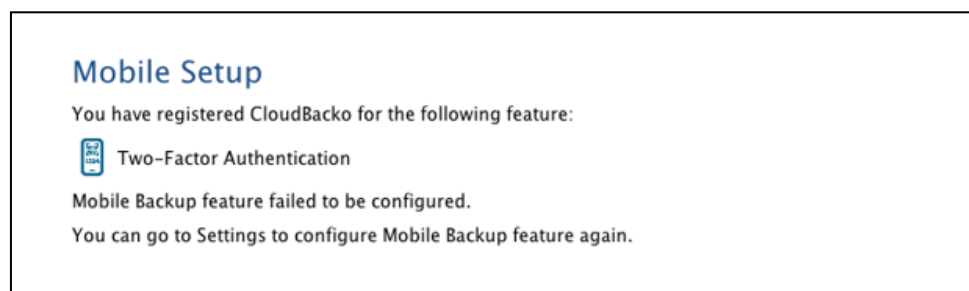
Scan QR Code



Enter the one-time passcode from the CloudBacko app.



- iv. Once the registration is successful, the following screen will be displayed. You have now registered your device for two-factor authentication then click **OK**.

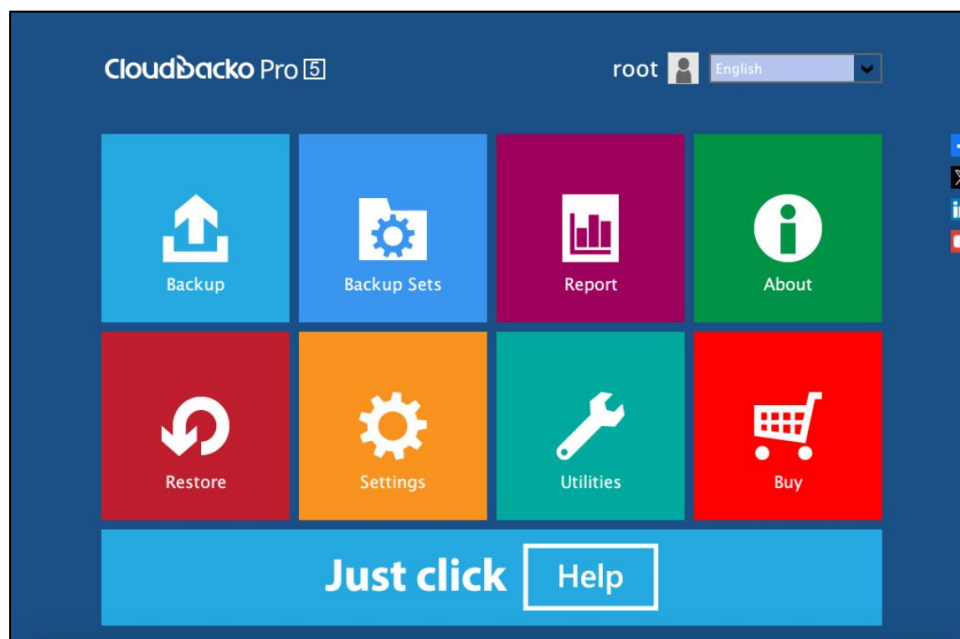


The device will now be available under **Settings > Authentication > Two-Factor Authentication**.

NOTE

In case device pairing takes a while, session timeout message will be displayed. Just click **OK** to resume with the device pairing.

5. After successful login, the following screen will appear.



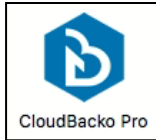
NOTE

Please refer to the [CloudBacko App v1 User Guide for Android and iOS – Appendix A: Troubleshooting Login](#) if you are experiencing problems logging into CloudBacko Pro with Two-Factor Authentication with CloudBacko app.
For instructions on how to register a device using third-party TOTP authenticator please refer to [Appendix E](#)

6.2.2 Subsequent logins with 2FA

For subsequent logins to CloudBacko Pro with two-factor authentication, please follow the steps below:

1. A shortcut icon of CloudBacko Pro will be available on your desktop after installation. Double click the icon to launch the application.



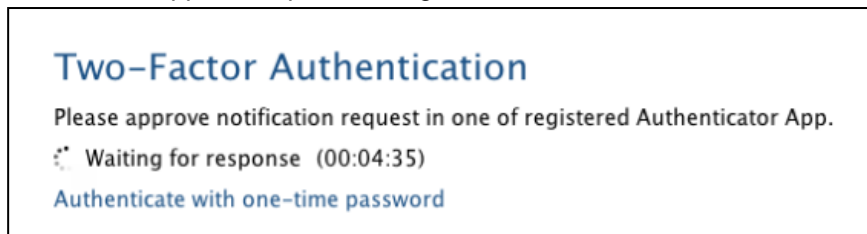
2. One of the two authentication methods will be displayed to continue with the login:

- [Push Notification and TOTP when using CloudBacko app](#) or,
- [TOTP only](#)

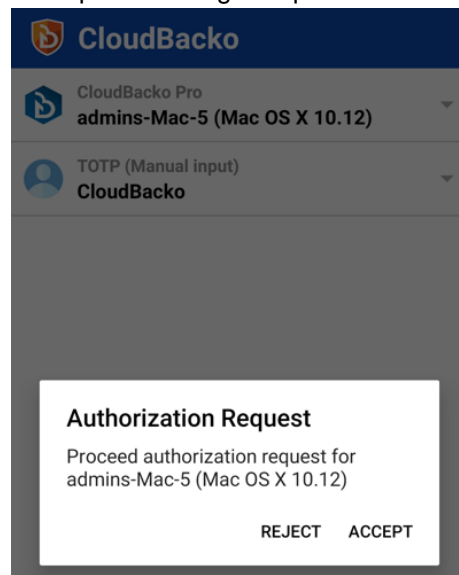
-
- If **CloudBacko app** was configured to use Push Notification and TOTP then there are two 2FA modes that can be used:

- **Push Notification (default mode)**

Push notification is the default 2FA mode. Accept the login request on CloudBacko app to complete the login.



Example of the login request sent to CloudBacko app.



- **TOTP**

However, if push notification is not working or you prefer to use one-time password, click the [Authenticate with one-time password](#) link, then input the one-time password generated from CloudBacko app to complete the login.

Two-Factor Authentication

Please approve notification request in one of registered Authenticator App.

⌚: Waiting for response (00:04:43)

Alternatively, input the one-time passcode generated in your Authenticator App.

5

8

8


6


9

2

(00:00:06)

Example of the one-time password generated from CloudBacko app to complete the login.



CloudBacko



CloudBacko Pro
admins-Mac-5 (Mac OS X 10.12)

588 692

5s



TOTP (Manual input)
CloudBacko

- **TOTP only**

Enter the one-time password that is generated by the Authenticator App to proceed with login.

Two-Factor Authentication

Enter one-time passcode generated from authenticator app

8

5

2

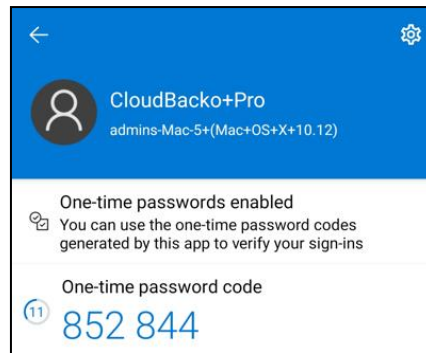
8

4

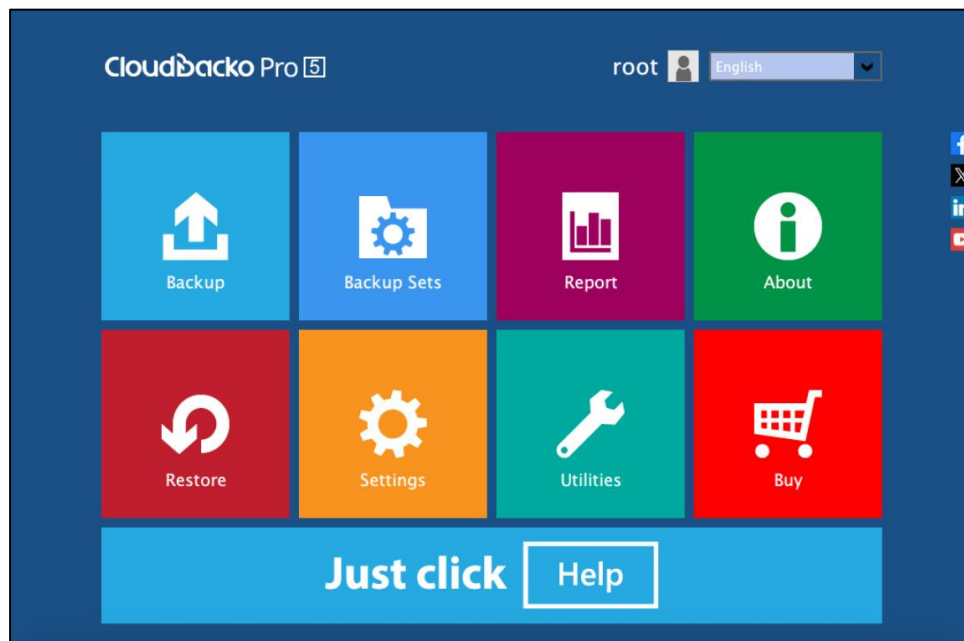
4

(00:00:11)

Example of the one-time password that is generated in the third-party Authenticator App, Microsoft Authenticator.



3. After successful login, the following screen will appear.



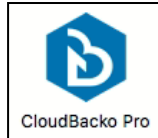
NOTE

Please refer to the [CloudBacko App v1 User Guide for Android and iOS – Appendix A: Troubleshooting Login](#) if you are experiencing problems logging into CloudBacko Pro with Two-Factor Authentication with CloudBacko app.

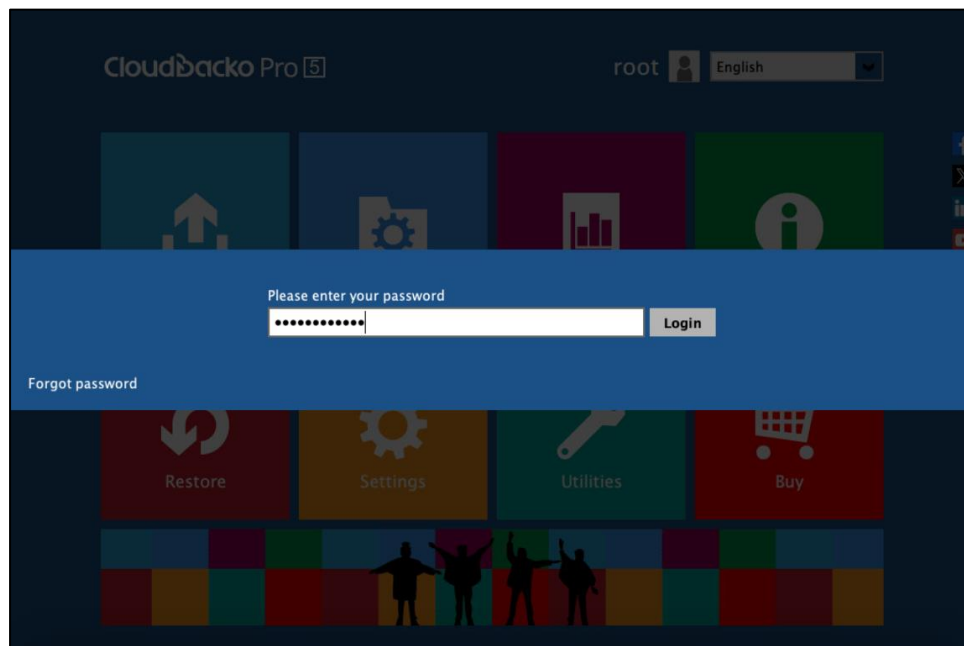
6.2.3 Subsequent logins with 2FA and password lock

For subsequent logins to CloudBacko Pro with password lock and two-factor authentication, please follow the steps below:

1. A shortcut icon of CloudBacko Pro will be available on your desktop after installation. Double click the icon to launch the application.



2. Enter password.

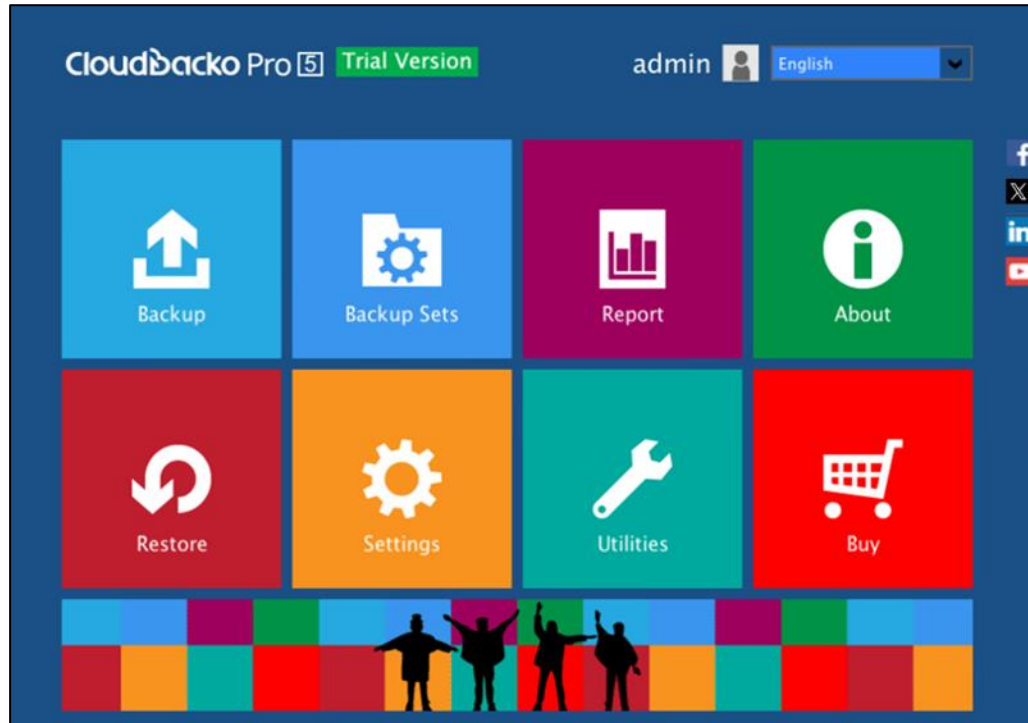


3. Follow the instructions in [Chapter 6.2.2](#) to finish logging in with 2FA.

6.3 Trial Mode

When CloudBacko Pro is downloaded and installed on a machine, these are some key points to consider:

• Trial Mode



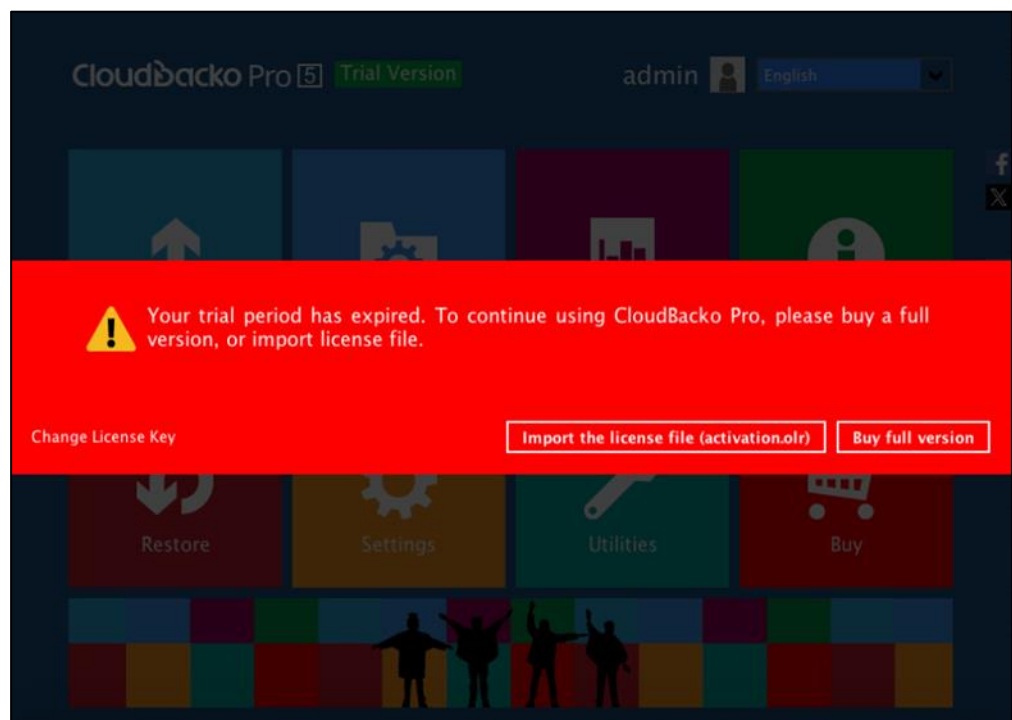
CloudBacko Pro will start in trial mode. Trial mode will expire after 30 days.

If you want to purchase a license key, please see these chapters:

1. [Ch. 7.9 Buy](#)
2. [Ch. 7.9.1 Credit Card](#)
3. [Ch. 7.9.2 TT \(Telegraphic Transfer\)](#)

An existing license key may be applied even if CloudBacko Pro is still in trial. Please see this chapter, [Ch. 7.7.3 License](#).

❏ Expired Trial Mode

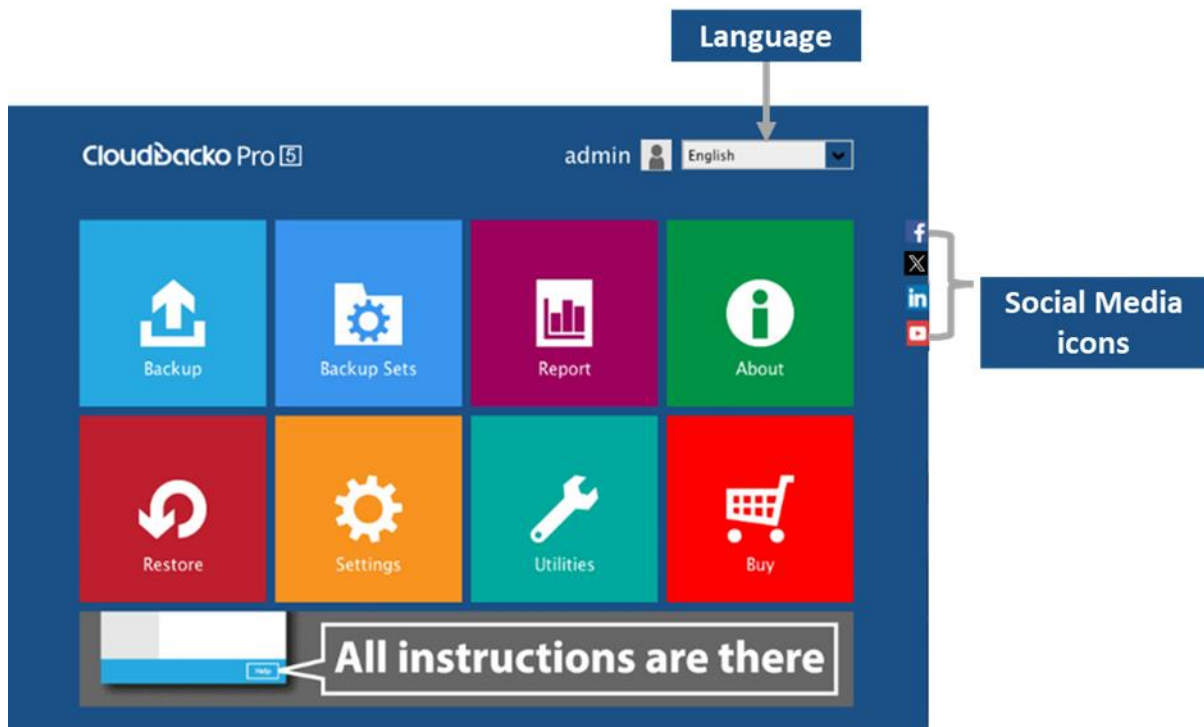


If you want to apply license key after Trial mode has expired, please check [Appendix F: How to apply a license key to a CloudBacko Pro installation with an expired trial license?](#)

❏ CloudBacko License Key

If you want to find your purchased CloudBacko Pro license key, please check [Appendix G: Where to find the CloudBacko Pro purchase license key?](#)

7 CloudBacko Pro Overview

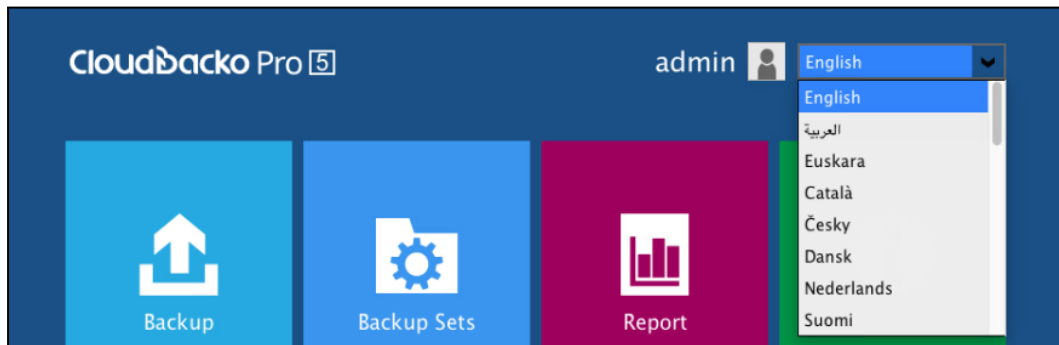


CloudBacko Pro main interface has ten (10) icons that can be accessed by the user, namely:

- ▶ [Language](#)
- ▶ [About](#)
- ▶ [Backup](#)
- ▶ [Backup Sets](#)
- ▶ [Report](#)
- ▶ [Restore](#)
- ▶ [Settings](#)
- ▶ [Utilities](#)
- ▶ [Buy](#)
- ▶ [Social Media Icons](#)

7.1 Language

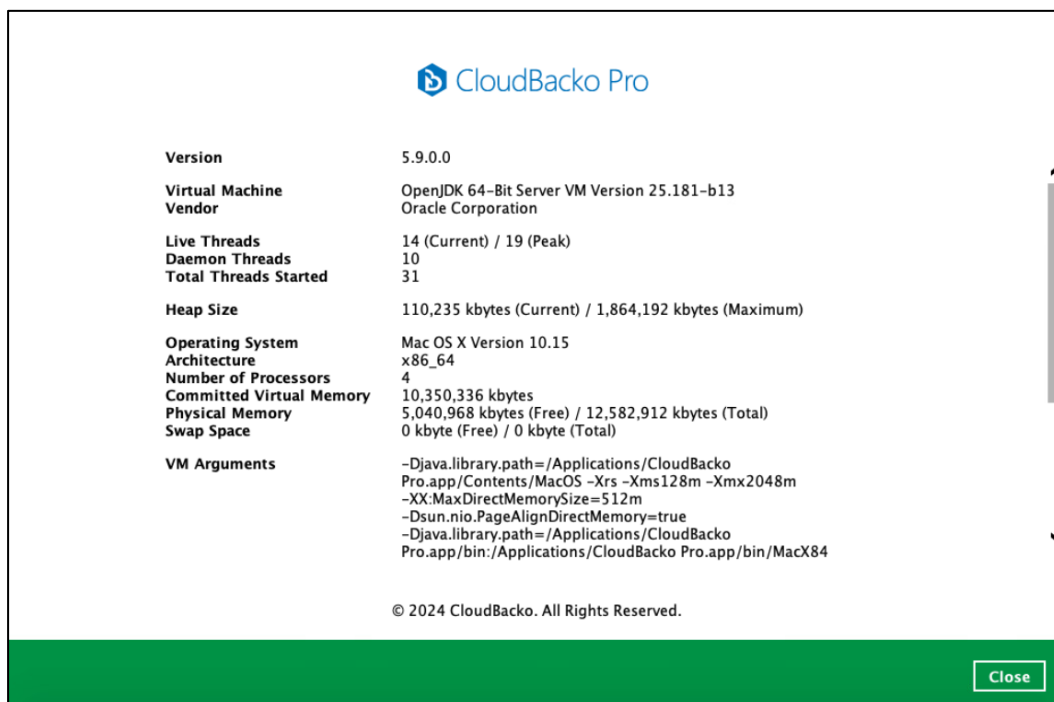
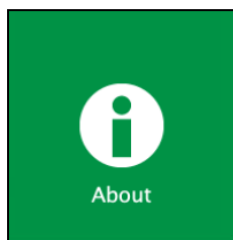
This option is used to change the language of the CloudBacko Pro interface. The list of the available languages depends on the backup service provider.



Once the language is set, it will reflect on the CloudBacko Pro interface right away.

7.2 About

The **About** module displays the product version and system information of the machine where the CloudBacko Pro is installed.

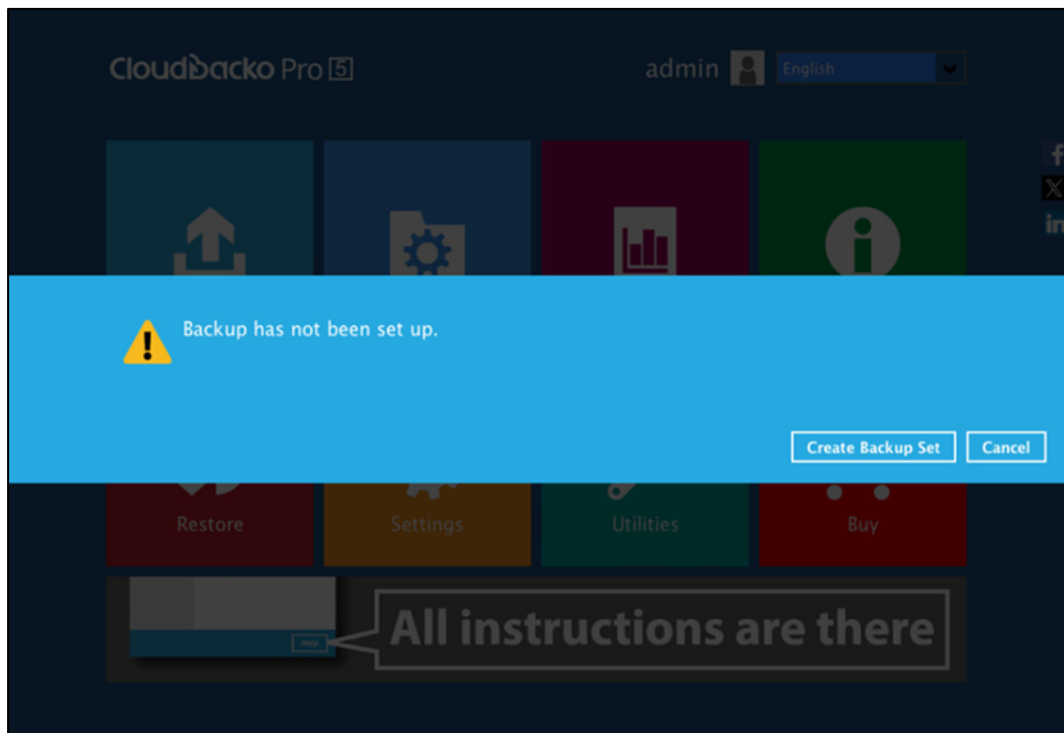


7.3 Backup

This feature is used to run your backup set(s).



When using CloudBacko Pro for the first time, you will be asked to create a new backup set first.



For instructions on how to start a backup, refer to [Chapter 10 Run Backup Jobs](#).

7.4 Backup Sets

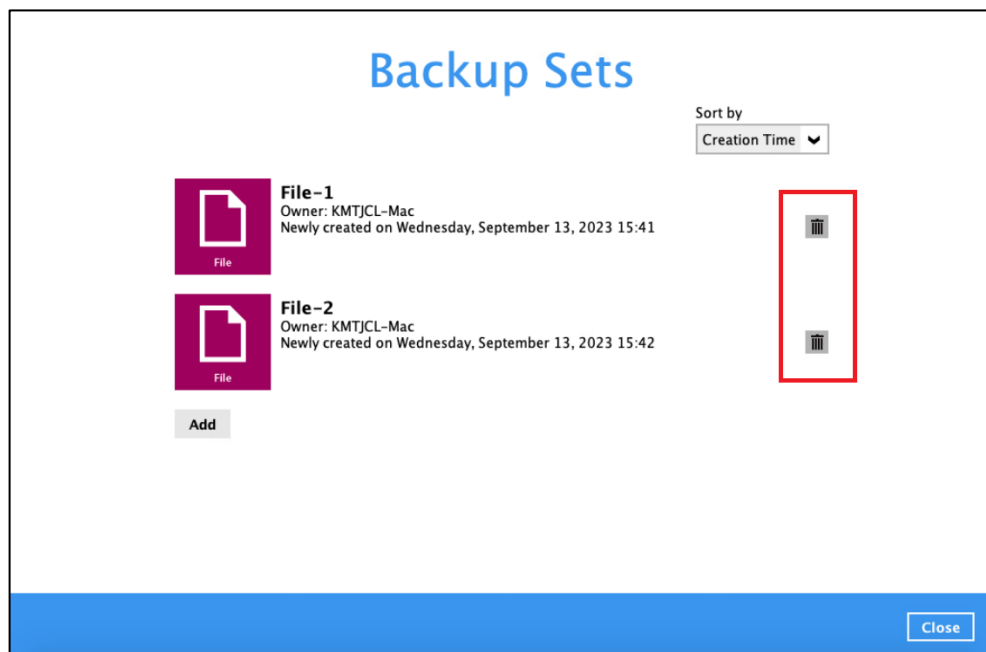
A backup set is a place for files and/or folders of your backed-up data. This feature allows user to select files individually or entirely in a selected folder to back up.



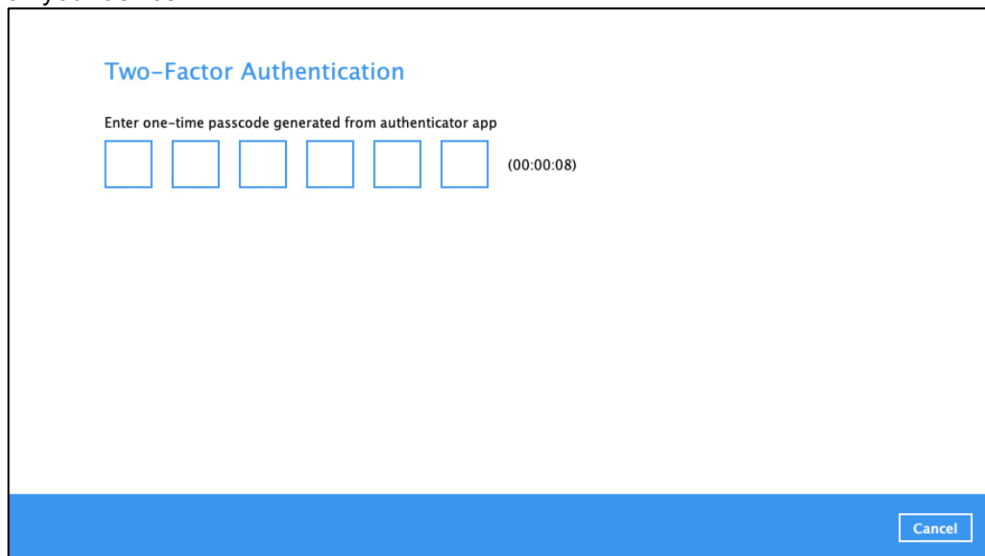
For instructions on how to create a backup set, refer to [Chapter 8 Create a Backup Set](#).

To delete a Backup Set, follow the instructions below:

1. In the Backup Sets page, click on the delete icon on the right side of the backup set you wish to delete.



If you have 2FA active, you will be required to submit a One-Time Password as shown on your device.

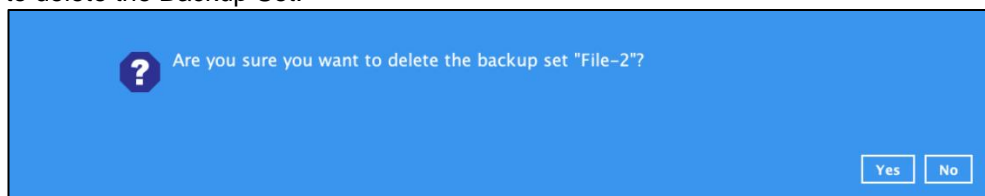


Two-Factor Authentication

Enter one-time passcode generated from authenticator app

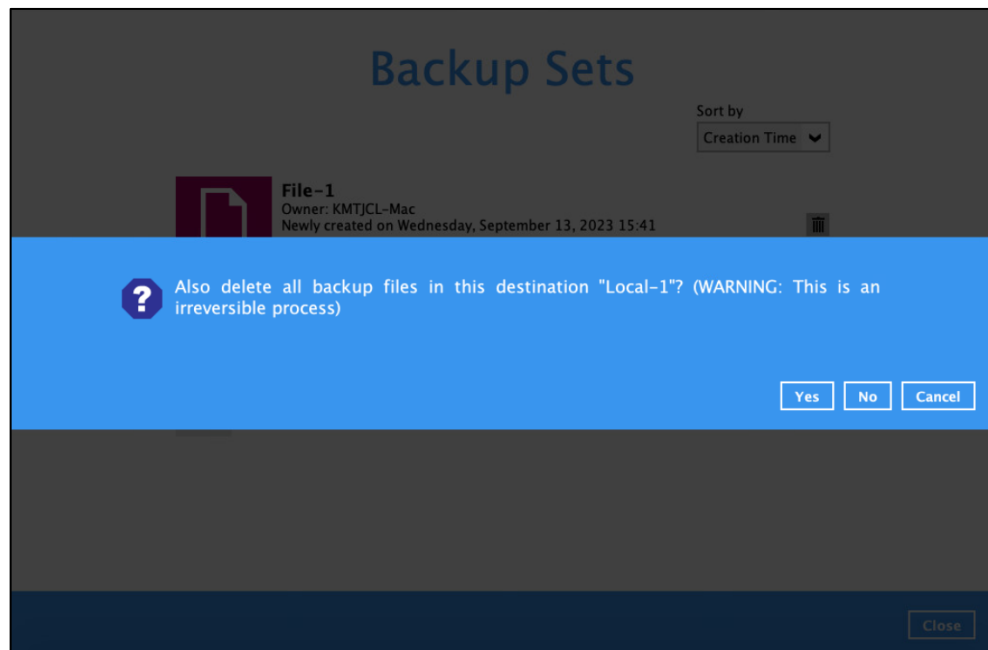
(00:00:08)

2. Upon clicking on the icon, you will be presented with a warning message. Click on **Yes** to delete the Backup Set.



? Are you sure you want to delete the backup set "File-2"?

3. If Yes is selected, it will also display another alert message confirming the deletion of all backup files in the destination. Click the **Yes** button to proceed. Otherwise, click the **No** button to abort the deletion.



Backup Sets

Sort by
Creation Time ▼

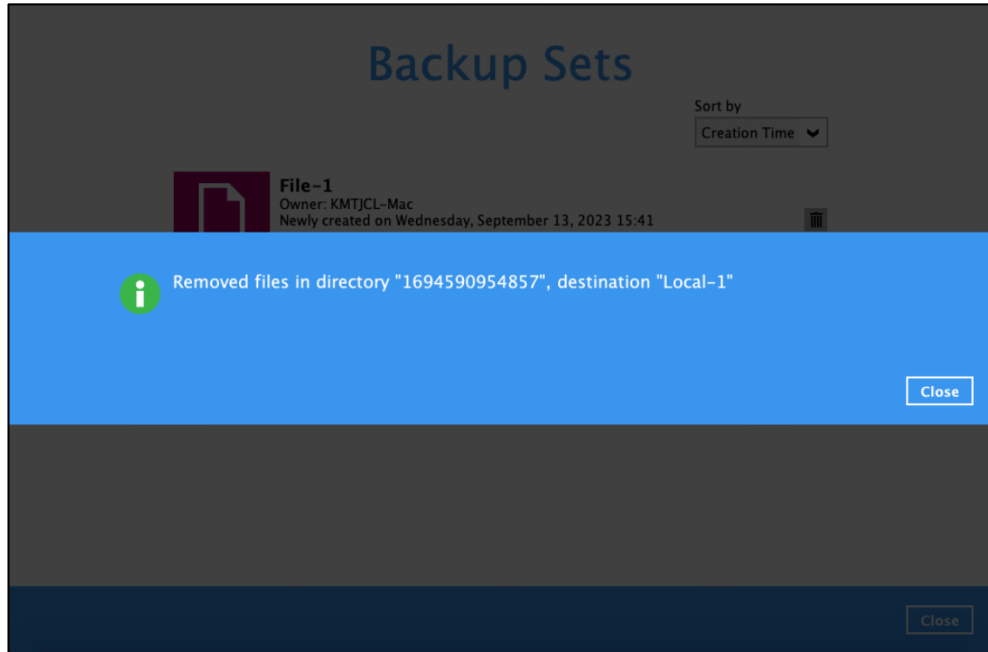
File-1
Owner: KMTJCL-Mac
Newly created on Wednesday, September 13, 2023 15:41

? Also delete all backup files in this destination "Local-1"? (WARNING: This is an irreversible process)

WARNING!

This is an irreversible process

4. The backup set is successfully deleted as well as the files from the directory.



7.4.1 Backup Set Settings

Below is the list of configurable settings under a Backup Set:


- ▶ [General](#)
- ▶ [Source](#)
- ▶ [Backup Schedule](#)
- ▶ [Destination](#)

Show advanced settings

- ▶ [Deduplication](#)
- ▶ [Retention Policy](#)
- ▶ [Command Line Tool](#)
- ▶ [Bandwidth Control](#)
- ▶ [Others](#)

7.4.1.1 General

This feature allows the user to modify the current name of the backup set.


Sample Backup Set

General

Source

Backup Schedule

Destination

Show advanced settings

General

Name

Owner

KMTJCL-Mac

Save

Cancel

To modify the name of a backup set, follow the steps below:

1. In the Name field, enter a new backup set name.

General

Name

Owner

MacBook-Pro

2. Click the **Save** button to save the updated backup set name.

NOTE

In assigning a backup set name, make sure that it does not have an identical name.

7.4.1.2 Source

This feature allows the user to select files and/or folders in the backup source to back up.

Sample Backup Set

General

Source

Backup Schedule

Destination

[Show advanced settings](#)

Backup Source

Select the files and folders that you want to backup

- ☐ Desktop
- ☐ admin
- ☒ Documents
- ☐ Movies
- ☐ Music
- ☐ Pictures

Filter

Apply filters to the backup source

Off ☐

[I would like to choose the files to backup](#)

Quick Selection

Filter

Advanced Backup Source

Save **Cancel**

There are three (3) ways to select files and/or folders to back up:

Option	Description
Quick Selection	This allows the user to back up files and/or folders in the selected backup source entirely.
Filter	This allows the user to select or exclude files and/or folders from the backup job.
Advanced Backup Source	This allows the user to select files and/or folders individually to back up.

Option 1: Quick Selection



This option allows the user to quickly select a backup source to be backed up. For our example below, we assume the account name is admin.





Backup Source

Select the files and folders that you want to backup

☐ Desktop
 ☐ admin
 ☒ Documents
 ☐ Movies
 ☐ Music
 ☐ Pictures

To know the locations of the folder(s) that will be backed up for each selected backup source, refer to the following table:

Backup Source		Description
Desktop		<p>If Desktop is selected, all files and/or folders in the following location will be backed up: %UserProfile%/Desktop Example: If the account name is admin, the location is /Users/admin/Desktop</p>
Admin		<p>If home for admin is selected, all files and/or folders located in the following location /Users/admin/ will be backed up this includes: /Users/admin/Desktop /Users/admin/ Documents /Users/admin/ Downloads /Users/admin/Movies /Users/admin/Music /Users/admin/Pictures /Users/admin/Public</p> <p>This selection also includes some macOS system level folders and CloudBacko system folders which are hidden. It is recommended these folders are excluded from the backup source using the Exclude Filter. /Users/admin/Library /Users/admin/.Trash /Users/admin/.bash_sessions /Users/admin/.cbp</p> <p>Note: If you select admin during the creation of backup set, the entire Backup Source in the Quick or Shortcut option will also be selected (e.g. Desktop, Documents, Movies, Music, and Pictures) but you may choose to unselect any of each.</p>

Documents		<p>If Documents is selected, all files and/or folders located in the following location will be backed up:</p> <p>%UserProfile%/Documents</p> <p>Example: If the account name is admin, the location is /Users/admin/Documents</p>
Movies		<p>If Movies is selected, all files and/or folders located in the following location will be backed up:</p> <p>%UserProfile%/Movies</p> <p>Example: If the account name is admin, the location is /Users/admin/Movies</p>
Music		<p>If Music is selected, all files and/or folders located in the following location will be backed up:</p> <p>%UserProfile%/Music</p> <p>Example: If the account name is admin, the location is /Users/admin/Music</p>
Pictures		<p>If Pictures is selected, all files and/or folders located in the following location will be backed up:</p> <p>%UserProfile%/Pictures</p> <p>Example: If the account name is admin, the location is /Users/admin/Pictures</p>

To select files and/or folders to back up using the Quick Selection option, follow the steps below:

1. Select a backup source.

Backup Source

Select the files and folders that you want to backup

☐ Desktop

☐ admin

☒ Documents

☐ Movies

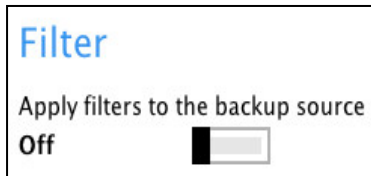
☐ Music

☐ Pictures

2. Click the **Save** button to store the selected backup source.

Option 2: Filter

This option allows the user to manually select files and/or folders in the selected location(s) to back up.



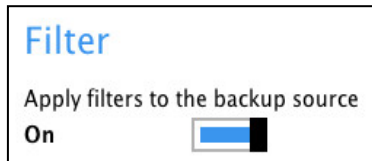
Filter

Apply filters to the backup source

Off ☐

To select files and/or folders to back up using the Filter Backup Source, follow the steps below:

1. Slide the lever to the right to turn on the filter setting.



Filter

Apply filters to the backup source

On ☒

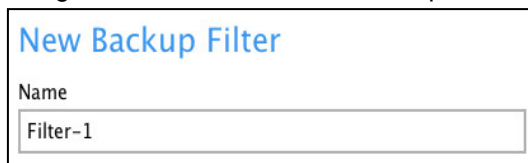
2. Click the **Add** button to create a filter.



Existing filters

+ Add new filter

3. Assign a desired name to the backup filter.

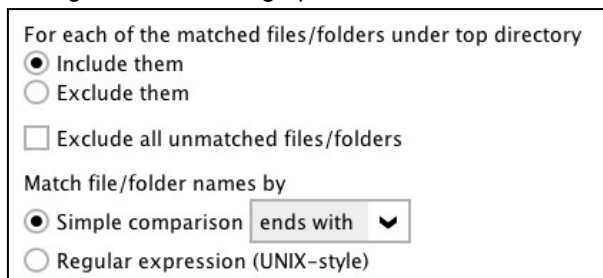


New Backup Filter

Name

Filter-1

4. Configure the following options.



For each of the matched files/folders under top directory

☒ Include them

☐ Exclude them

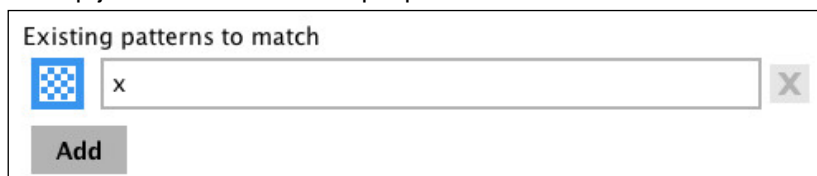
☐ Exclude all unmatched files/folders

Match file/folder names by

☒ Simple comparison

☐ Regular expression (UNIX-style)

5. In this example, all files and/or folders that end with the letter 'X' will be included to the backup job. You can add multiple patterns here.



Existing patterns to match

☒

Add

6. Select whether you would like to apply the filter to all files and/or folders in all hard disk drives or to a specific folder only. If 'This folder only' is selected, click the **Change** button to specify the folder where you would like to apply the filter to.

Apply this filter to all files/folders in

☐ All hard disk drives
☒ This folder only

Apply to

☒ File ☒ Folder

7. Click the **OK** button to save the created filter, then click the **Save** button to store the settings. Once you run a backup, all files and/or folders that match the applied filter will be backed up.

8. Multiple backup filters can be created by clicking the **Add** button.

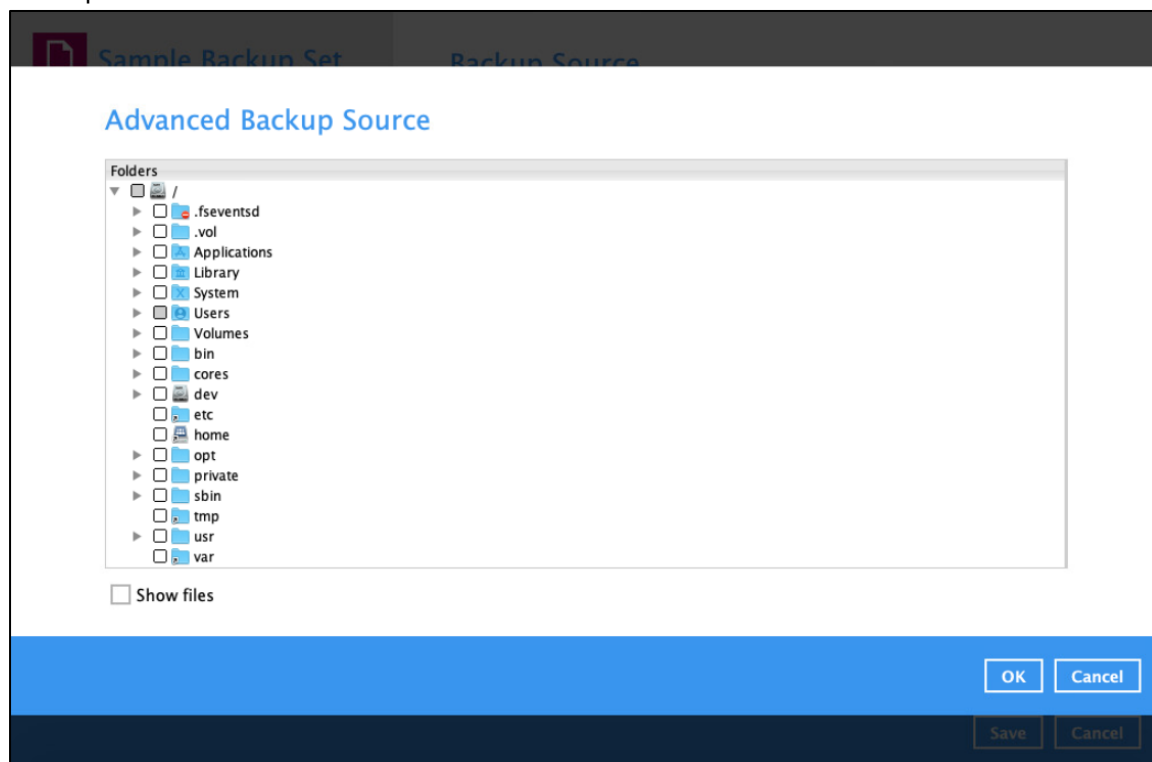
Existing filters

☒ **Filter-1**
 /Users/admin/Desktop

☒ **Filter-2**
 /Users/admin/Documents

Option 3: Advanced Backup Source

This option allows the user to display the locations in the backup source to select files and/or folders to back up.

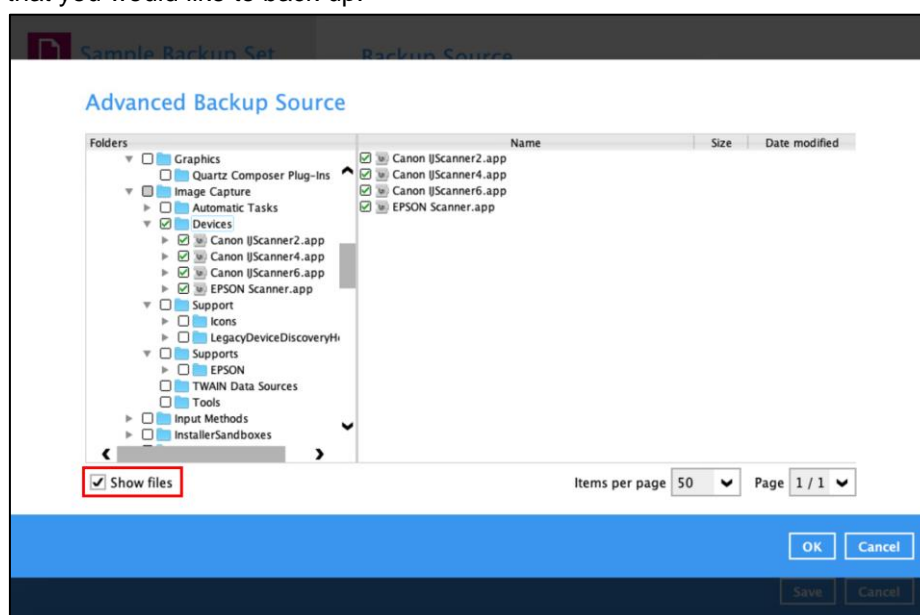


To select files and/or folders using the Advanced Backup Source, follow the steps below:

1. In the Source window, select 'I would like to choose the files to backup'.

I would like to choose the files to backup

2. Select 'Show files' to display the files inside each folder, then select the files and/or folders that you would like to back up.

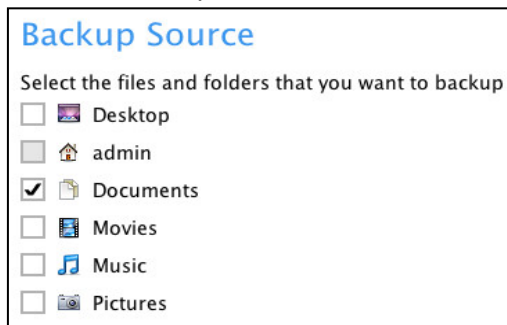


- Click the **OK** button to save the selection, then click the **Save** button to store the settings. In selecting files and/or folders to back up, the three (3) options can be used simultaneously. For more details, please refer to the example scenarios below:

Scenario 1 (Quick Selection + Filter)

You can use the quick selection option and apply filter to the selected backup source at the same time. To use this type of combination, follow the steps below:

- Choose a backup source.



Backup Source

Select the files and folders that you want to backup

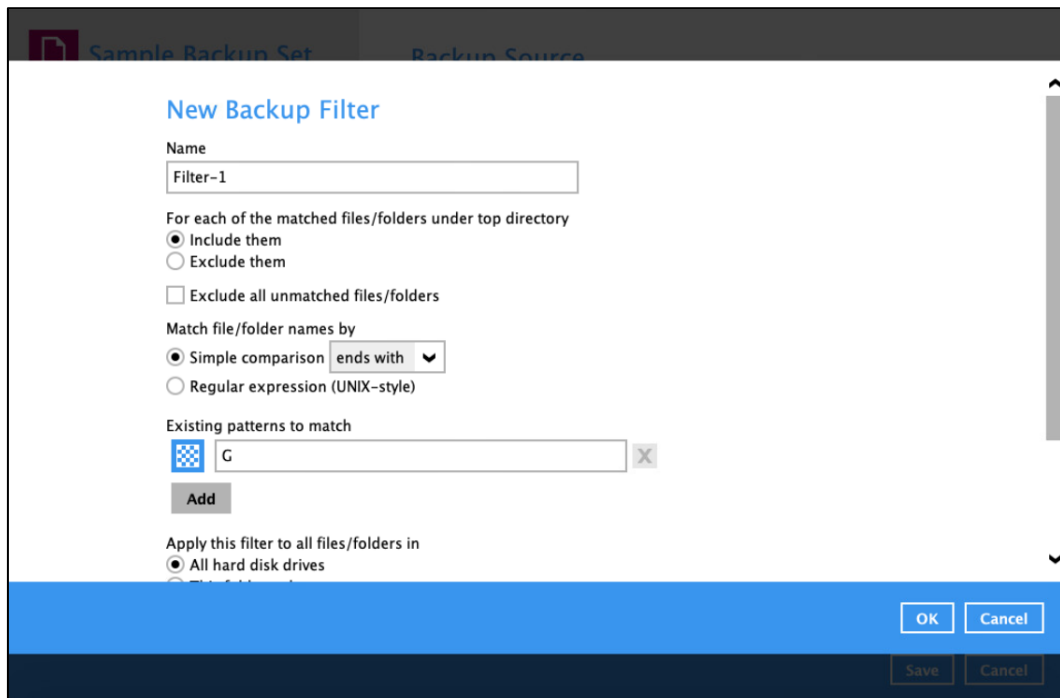
- ☐ Desktop
- ☐ admin
- ☒ Documents
- ☐ Movies
- ☐ Music
- ☐ Pictures

- Create a filter that will be applied to the backup source.



Existing filters

+ Add new filter



New Backup Filter

Name
Filter-1

For each of the matched files/folders under top directory

- ☒ Include them
- ☐ Exclude them
- ☐ Exclude all unmatched files/folders

Match file/folder names by

- ☒ Simple comparison ends with ▼
- ☐ Regular expression (UNIX-style)

Existing patterns to match

☒ G X

Add

Apply this filter to all files/folders in

- ☒ All hard disk drives
- ☐ All network drives

OK Cancel

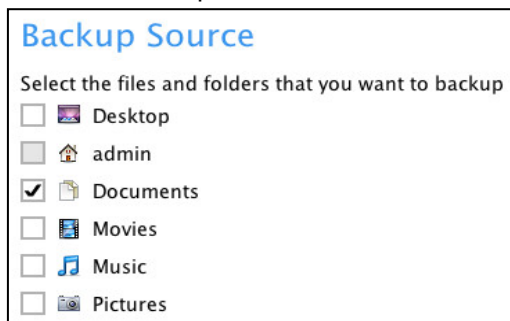
Save Cancel

- Click the **OK** button to save the created filter, then click the **Save** button to save the settings.

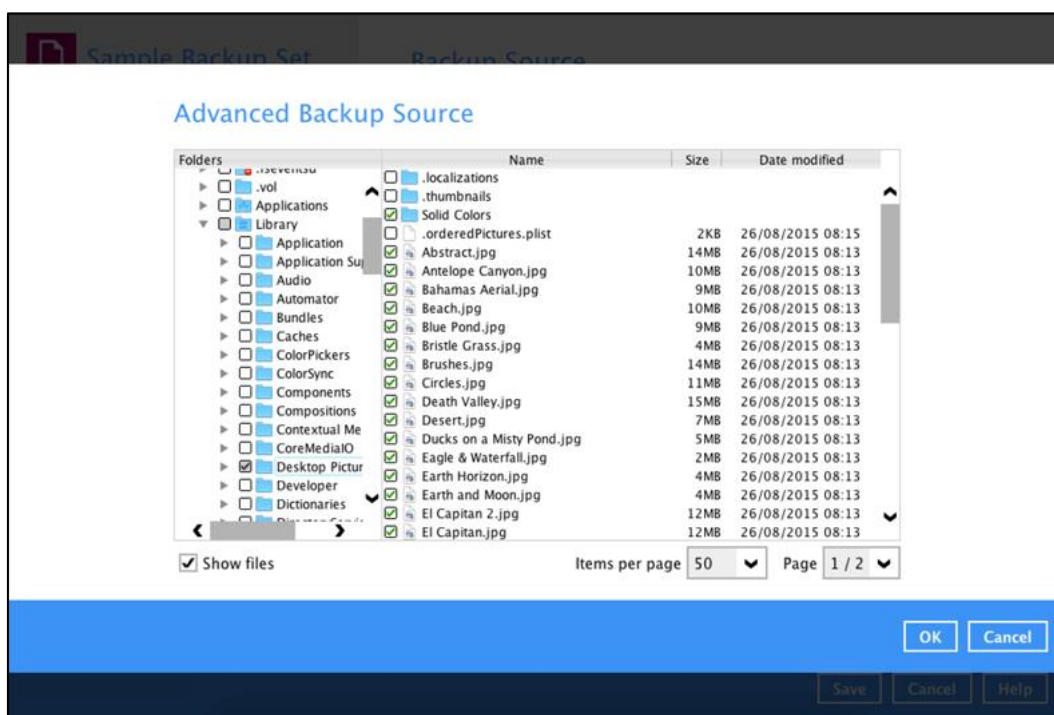
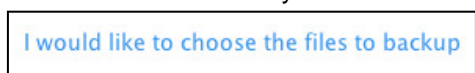
Scenario 2 (Quick Selection + Advanced Backup Source)

You can use the quick selection option and select files and/or folders in the advanced backup source at the same time. To use this type of combination, follow the steps below:

1. Choose a backup source.



2. In the Source window, click '**I would like to choose the files to backup**', then select the files and/or folders that you would like to back up.

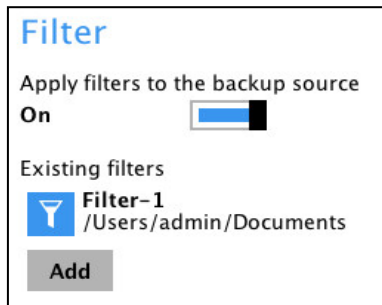


3. Click the **OK** button to save the selection, then click the **Save** button to store settings.

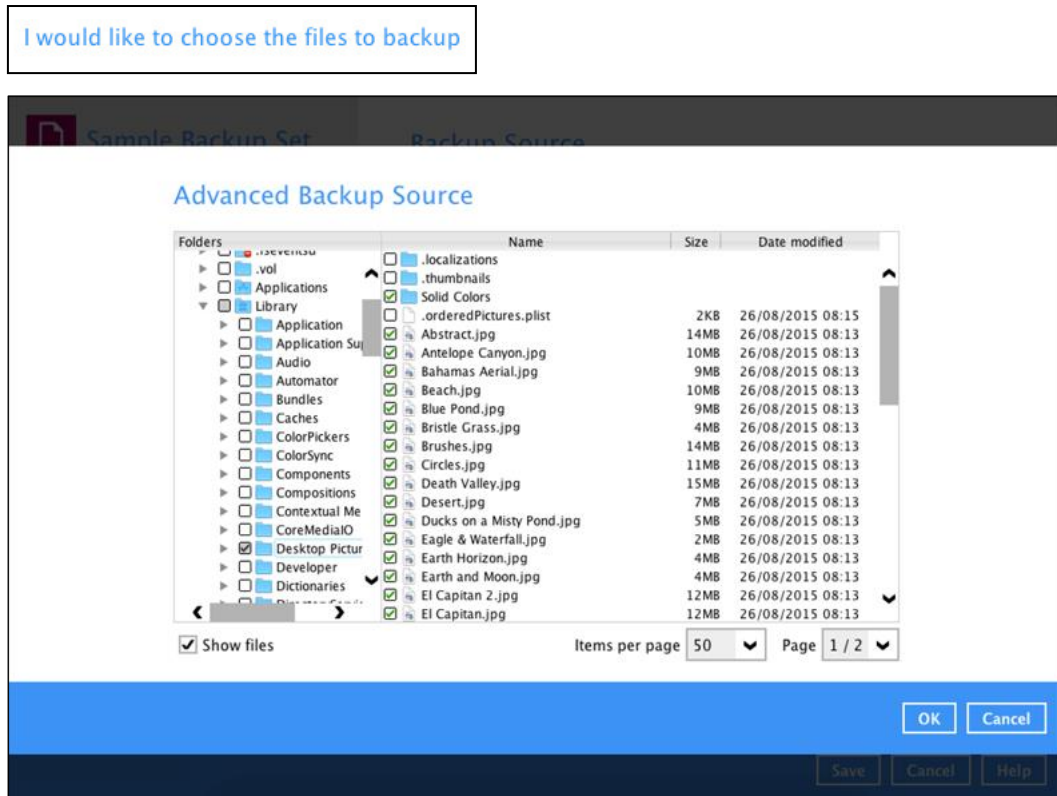
Scenario 3 (Filter + Advanced Backup Source)

You can use the filter backup source and select files and/or folders in the advanced backup source at the same time. To use this type of combination, follow the steps below:

1. Create a filter.



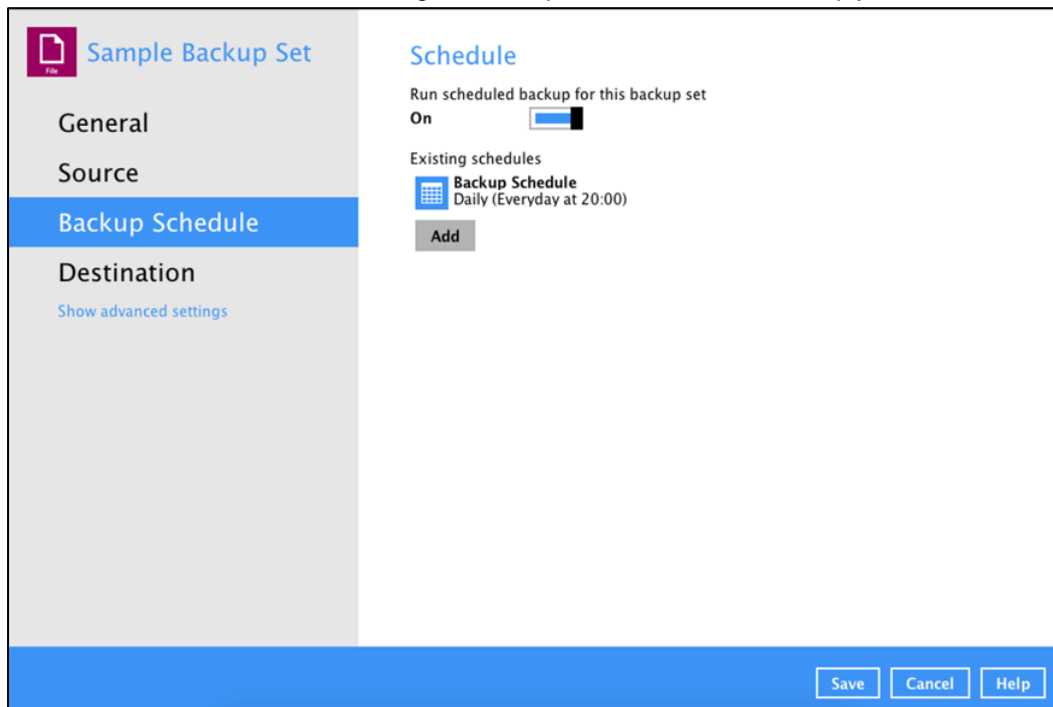
2. In the source window, click '**I would like to choose the files to backup**', then select the files and/or folders that you would like to back up.



3. Click the **OK** button to save the selection, then click the **Save** button to store settings.

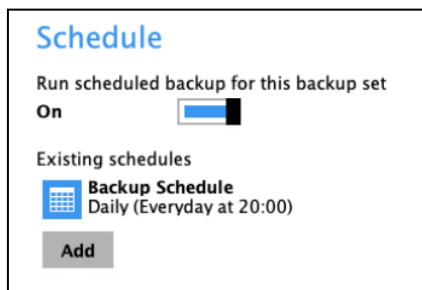
7.4.1.3 Backup Schedule

This feature allows the user to assign a backup schedule for the backup job to run automatically.

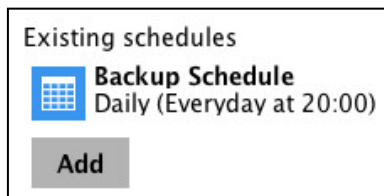


To configure a backup schedule, follow the steps below:

1. Swipe the lever to the right to turn on the backup schedule setting.



2. Select an existing backup schedule to modify or click the **Add** button to create a new one.



3. In the Backup Schedule window, configure the following backup schedule settings.

- ▶ **Name** – the name of the backup schedule.
- ▶ **Type** – the type of backup schedule. There are four (4) different types of backup schedule: Daily, Weekly, Monthly and Custom.
 - **Daily** – the time of the day when the backup job will run.

- **Weekly** – the day of the week and the time of the day when the backup job will run.

Backup Schedule

Name
Weekly-1

Type
Weekly

Backup on these days of the week
☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☒ Sat

Start backup
 at 19 : 00

Stop
 until full backup completed

- **Monthly** – the day of the month and the time of the day when the backup job will run.

Backup Schedule

Name
Monthly-1

Type
Monthly

Backup on the following day every month
☐ Day 1
☒ Last Sunday

Start backup at
 20 : 00 on the selected days

Stop
 until full backup completed

- **Custom** – a specific date and the time when the backup job will run.

Backup Schedule

Name
Weekly-1

Type
Weekly

Backup on these days of the week
☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☒ Sat

Start backup
 at 19 : 00

Stop
 until full backup completed

• **Start backup** – the start time of the backup job.

- **at** – this option will start a backup job at a specific time.
- **every** – this option will start a backup job in intervals of minutes or hours.

Here is an example of backup set that has a periodic and normal backup schedule.

Figure 1.1

Figure 1.1 – Periodic schedule every 4 hours Monday - Friday during business hours

Figure 1.2

Figure 1.2 – Normal schedule run at 21:00 or 9:00 PM daily on Saturday & Sunday during weekend non-business hours

• **Stop** – the stop time of the backup job. This only applies to schedules with start backup “at” and is not supported for periodic backup schedule (start backup “every”)

- **until full backup completed** – this option will stop a backup job once it is complete. This is the configured stop time of the backup job by default.
- **after (defined no. of hrs.)** – this option will stop a backup job after a certain number of hours regardless of whether the backup job has completed or not. This can range from 1 to 24 hrs.

The number of hours must be enough to complete a backup of all files in the backup set. For small files in a backup, if the number of hours is not enough to back up all files, then the outstanding files will be backed up in the next backup job. However, if the backup set contains large files, this may result in partially backed up files.

For example, if a backup has 100GB file size which will take approximately 15 hours to complete on your environment, but you set the “stop” after 10 hours, the file will be partially backed up and cannot be restored. The next backup will upload the files from scratch again. The partially backed up data will have to be removed by running the data integrity check. As a general rule, it is recommended to review this setting regularly as the data size on the backup machine may grow over time.

4. Click the **OK** button to save the configured backup schedule settings.
5. Click the **Save** button to save the settings and multiple backup schedules can be created.

Sample Backup Set

General

Source

Backup Schedule

Destination

[Show advanced settings](#)

Schedule

Run scheduled backup for this backup set

On ☒

Existing schedules

- Daily-1**
Daily (Everyday at 18:00)
- Weekly-1**
Weekly - Saturday (Every week at 19:00)
- Monthly-1**
Monthly - The Last Sunday (Every month at 20:00)
- Custom-1**
Custom (31/12/2021 at 21:00)

Add

Save Cancel Help

7.4.1.4 Destination

This feature allows the user to select a backup mode and add an additional storage destination.

The screenshot shows the 'Destination' configuration window for a 'Sample Backup Set'. On the left is a sidebar with tabs: 'General', 'Source', 'Backup Schedule', and 'Destination' (which is selected and highlighted in blue). Below the 'Destination' tab is a link that says 'Show advanced settings'. The main area of the window is titled 'Destination' and contains the following elements:

- Backup mode:** A dropdown menu currently set to 'Sequential'.
- Existing storage destinations:** A list showing two destinations:
 - Local-1:** /Users/admin/Documents/Backup
 - GoogleDrive-1:** Google Account: [redacted]
- Add:** A button to add a new storage destination.
- Navigation:** Up and down arrow buttons below the list.
- Footer:** A blue bar at the bottom containing 'Save', 'Cancel', and 'Help' buttons.

There are two (2) different types of backup mode:

This close-up shows the 'Backup mode' dropdown menu. The menu is open, displaying two options: 'Sequential' (which is currently selected) and 'Concurrent'. Below the dropdown, a portion of the 'Existing storage destinations' list is visible, showing a destination named 'Local-1' with the path '/Users/admin/Documents'.

Backup mode	Description
Sequential	This is the configured backup mode by default. This backup mode will run a backup job to each backup destination one by one.
Concurrent	This backup mode will run a backup job to all backup destinations simultaneously.

Comparison between Sequential and Concurrent Backup mode

Backup mode	Pros	Cons
Sequential	Takes less resources in the local machine (e.g. memory, CPU, bandwidth, etc.) to complete a backup job.	Backup job is slower than in concurrent mode since the backup job will upload the backup data to the selected backup destinations one at a time.
Concurrent	Backup job is faster than in Sequential mode.	Requires more resources in the local machine (e.g. memory, CPU, bandwidth, etc.) to complete a backup job.
	Maximum number of concurrent backup destinations can be configured.	

To modify the backup mode, follow the steps below:

1. Go to Backup Sets, then choose a backup set.
2. Select the **Destination** tab in the backup set settings.
3. Click the drop-down button to select a backup mode.

Destination

Backup mode

Sequential

4. If “Concurrent” is selected, click the drop-down button to select the no. of maximum concurrent backup destination.

Maximum concurrent backup destinations

2

5. Click the **Save** button to save the selected backup mode.

Starting with version 5.7, a new type of destination is introduced, in the form of immutable storage destination. This prevents backup data that is saved in immutable destination from being deleted or overwritten.

Only the following destinations supports immutable storage:

- Amazon S3
- AWS S3 Compatible Cloud Storage
- Backblaze
- Google Cloud Storage
- Microsoft Azure
- Wasabi

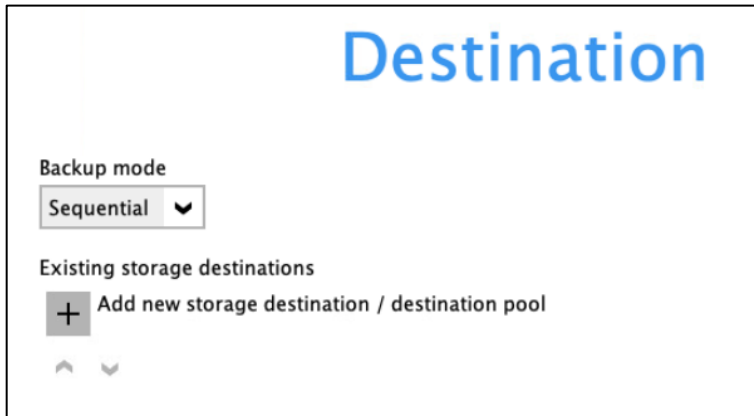
An “Immutable” checkbox is provided to be able to create an immutable storage destination.

These are the requirements to be able to setup an immutable storage destination:

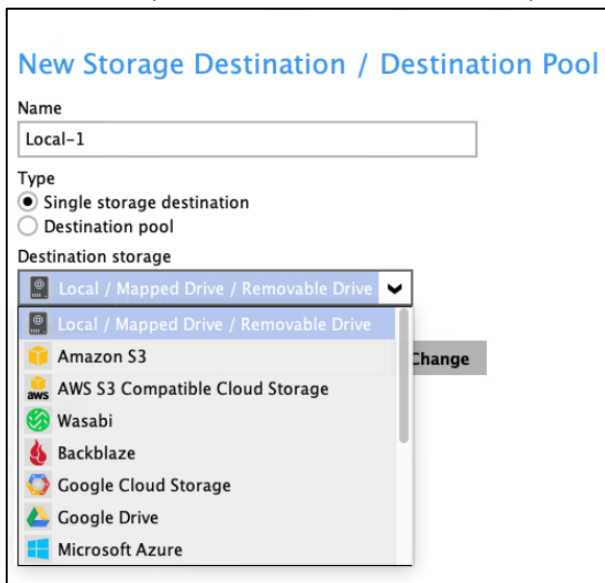
- The user account must have a device registered for 2FA.
- The user account of the storage destination must not be setup with delete permission.

To add a new storage destination, follow the steps below:

1. Click the + icon to add a Destination.



2. Click the drop-down button to select a backup destination.



3. If the **Local / Mapped Drive / Removable Drive** is selected, click the **Change** button to select a new storage destination, then click the **Test** button to validate access to it.

New Storage Destination / Destination Pool

Name

Local-2

Type

☒ Single storage destination

☐ Destination pool

Destination storage

Local / Mapped Drive / Removable Drive

Local path

/Users/admin/Documents

Change

Test

If you want to create an immutable destination, select one of the supported destinations; then, provide the needed information. Check 'Immutable', then click the **Test** button to validate access to it.

Destination storage

Google Cloud Storage ▼

Access Key

Secret

Location Type

Region ▼

Location

northamerica-northeast1 (Montreal) ▼

Storage Class

Standard ▼

(optional) Bucket Name

☐ Access the Internet through proxy

☒ Immutable

OKCancel

PreviousNextCancel

- Click the **OK** button to save the added storage destination.

New Storage Destination / Destination Pool

Name
Local-2

Type
☒ Single storage destination
☐ Destination pool

Destination storage
 Local / Mapped Drive / Removable Drive

Local path
 /Users/admin/Documents Change

✓ Test completed successfully

OK Cancel Help

- Click the **Save** button to store the updated backup mode and the added storage destination.

Sample Backup Set

Destination

Backup mode
Sequential

Existing storage destinations

- AmazonS3-1**
Access Key ID: AKIA4***, Bucket: testimnt01, Immutable: Yes
- Local-1**
/Users/admin/Desktop
- GoogleDrive-1**
Google Account:

Add

Save Cancel

NOTE

The immutable status of a destination is included in the details, it indicates whether Yes or No if the particular destination is set up as an immutable storage destination.

7.4.1.5 Deduplication

Starting with CloudBacko Pro v5.0.0.0 or above, the In-File Delta feature (i.e., Incremental, Differential and Full) will be replaced with Deduplication. This feature is **On (enabled)** by default.

When this feature is **On (enabled)** for the backup set, a checksum verification of each backup file which was split into several blocks of varying size will be performed to compare its content and identify which block is duplicated, thus will perform deduplication of data.

When this feature is **Off (disabled)** for the backup set, a checksum verification of each backup file will not be performed, thus the duplicated data will NOT be removed or deduplicated during a backup job.

There are two (2) types of Deduplication scope:

Deduplication	Description
Same file path within the same backup set	This type of Deduplication will deduplicate data under the same path during a backup job.
All files within the same backup set	This type of Deduplication will deduplicate data under the same backup set during a backup job. This option is only applicable for Meter License and will be charged per storage size used.

Migrate Data

When this option is enabled, the existing data will be migrated to the latest version during a backup job. This option is disabled by default.

Migrate Data

☐ Migrate existing data to latest version

To configure the Deduplication settings, follow the steps below:

1. Select the Deduplication scope.

Deduplication

Enable Deduplication
On ☒

Deduplication scope

☐ Same file path within the same backup set

☒ All files within the same backup set

Click the drop-down button to select the block size that will be used for the deduplication data block.

The **optimal settings** is good for frequently changed source data, as this is the smallest block deduplication will use to compare and determine if the data is new and should be uploaded or discarded as duplicate. The larger the deduplication block size, the less efficient it would be but faster as there are less blocks of data to create. Frequent changes to this setting is not advisable since all data may need to be reuploaded because the previous block size and new block size are now different.

Block size

128 k - 512 k (optimal settings - small files)

Bytes

64 k - 256 k

128 k - 512 k (optimal settings - small files)

256 k - 1 M

512 k - 2 M (optimal settings - large files)

1 M - 4 M (save less space but faster)

2. Tick the checkbox if you want the existing data to be migrated to the latest version during a backup job.

☐ Migrate existing data to latest version

3. Click the **Save** button to store the modified Deduplication settings.

NOTE


In case the Deduplication setting is disabled for the backup set, the Migrate Data option will not be displayed.

Run Backup Job

When the Deduplication feature is enabled for the backup set, a **Migrate Data** option will be available in the *advanced backup options* which can be configured before starting a backup job.

Below is an example of a backup set with Deduplication setting **enabled**.

Choose Your Backup Options



Sample Backup Set

Backup set type
File


Destinations
☒ Local-1 (/Users/admin/Documents/backup)

Migrate Data
☐ Migrate existing data to latest version

Previous
Backup
Cancel

Below is an example of a backup set with Deduplication setting **disabled**, the **Migrate Data** option will not be displayed.

Choose Your Backup Options



Sample Backup Set

Backup set type
File

Destinations
☒ Local-1 (/Users/admin/Documents/backup)

Previous
Backup
Cancel

7.4.1.6 Retention Policy

When the CloudBacko Pro identifies files and/or folders that are deleted, updated, or with updated permission/attributes during a backup job, these files and/or folders will then be moved from the Data Area to the Retention Area.

Data Area is the place where backed up files and/or folders are stored.

While the **Retention Area** is the place used as a temporary destination to store these files (deleted, updated, or with updated permission/attributes during a backup job). Files and/or folders in the Retention Area can still be restored.

The **Retention Policy** is used to control how long these files remain in the Retention Area when they are removed which can be specified in the number of days, weeks, months, or backup jobs. Retained data within all backup destinations (e.g. local drive, SFTP/FTP, and cloud storage) are cleared by the retention policy job.

The Retention Policy job will be run whenever a backup job is performed as long as this is enabled for the backup set. It will also be run when Space Freeing Up is performed. For further information on Space Freeing Up, refer to [Ch. 7.7.2 Space Freeing Up](#).

The default Retention Policy setting for a File Backup Set is 30 days.

NOTE

There is a trade-off between the retention policy and backup destination storage usage. The higher the Retention Policy setting, the more storage is used, which translates into higher storage costs.

There are two (2) types of Retention Policy:

Type	Description
Simple	A simple Retention Policy is a basic policy where the retained files (in the Retention Area) are removed automatically after the user specifies the number of days or backup jobs.
Advanced	An advanced Retention Policy defines a more advanced and flexible policy where the retained files (in the Retention Area) are removed automatically after a combination of user defined policy.

Comparison between Simple and Advanced Retention Policy

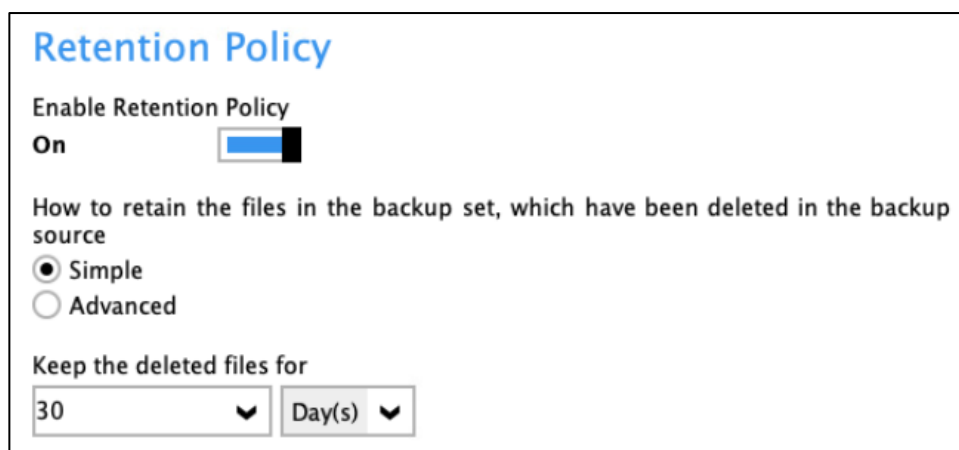
Type	Simple	Advanced
Backup Jobs	Can keep the deleted files for specified number of backup job(s)	Not applicable
Days	Can keep the deleted files for specified number of day(s)	Can keep the deleted files for specified number of day(s)
Type	Not applicable	<ul style="list-style-type: none"> • Daily • Weekly • Monthly • Quarterly • Yearly • Custom
User-defined name	Not applicable	Applicable

WARNING

When files and/or folders in the Retention Area exceed the Retention Policy setting, they are permanently removed from the backup set and cannot be restored.

To configure a **Simple Retention Policy**, follow the steps below:

1. Go to Backup Sets, then select a backup set.
2. Click the **Retention Policy** tab in the Backup Set Settings.
3. Slide the switch to the right to turn on **Enable Retention Policy**.
4. Select **Simple** from the options, then click the drop-down button to define the number of day(s) or job(s) how long the deleted files will be retained. This is configured as thirty (30) days by default.



Retention Policy

Enable Retention Policy
On ☒

How to retain the files in the backup set, which have been deleted in the backup source

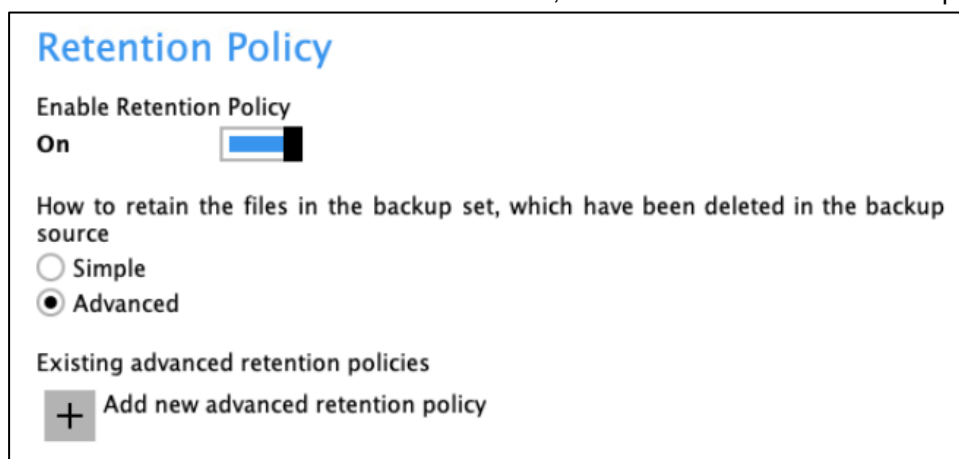
☒ Simple
☐ Advanced

Keep the deleted files for
30 Day(s)

5. Click the **Save** button to save the configured Retention Policy settings.

To configure an **Advanced Retention Policy**, follow the steps below:

1. Go to Backup Sets, then select a backup set
2. Click the **Retention Policy** tab in the Backup Set Settings.
3. Slide the switch to the right to turn on **Enable Retention Policy**.
4. Select "**Advanced**" from how to retain the files, then click "+" to add a retention policy.



Retention Policy

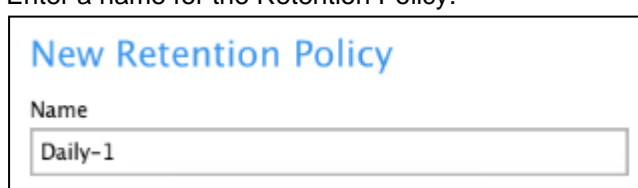
Enable Retention Policy
On ☒

How to retain the files in the backup set, which have been deleted in the backup source

☐ Simple
☒ Advanced

Existing advanced retention policies
 Add new advanced retention policy

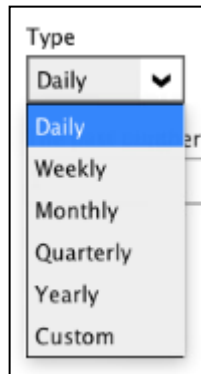
5. Enter a name for the Retention Policy.



New Retention Policy

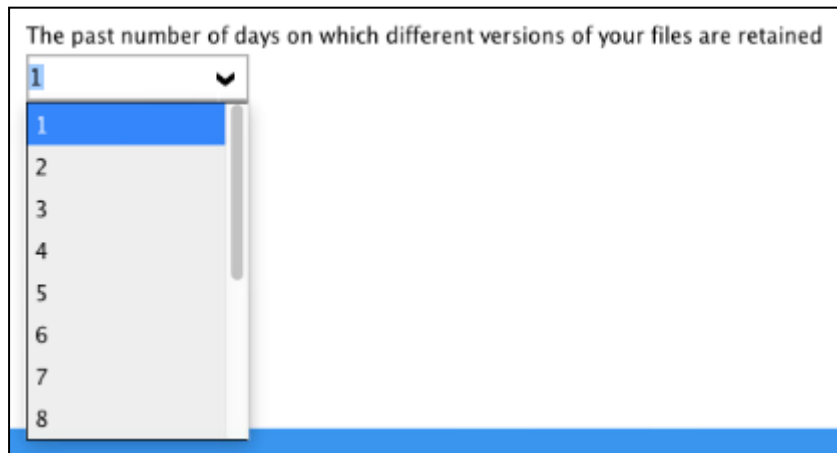
Name
Daily-1

- Click the drop-down button to choose a Retention Type (e.g., Daily, Weekly, Monthly, Quarterly, Yearly, Custom).



A screenshot of a dropdown menu titled 'Type'. The menu is open, showing a list of options: Daily, Weekly, Monthly, Quarterly, Yearly, and Custom. The 'Daily' option is currently selected and highlighted in blue.

- Select the number of days the deleted files will be kept in retention.

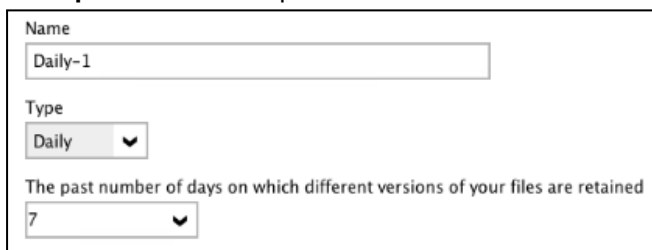


A screenshot of a dropdown menu titled 'The past number of days on which different versions of your files are retained'. The menu is open, showing a list of numbers from 1 to 8. The number '1' is currently selected and highlighted in blue.

- Click **OK** to save the advanced Retention Policy, then click **Save** to store the settings.

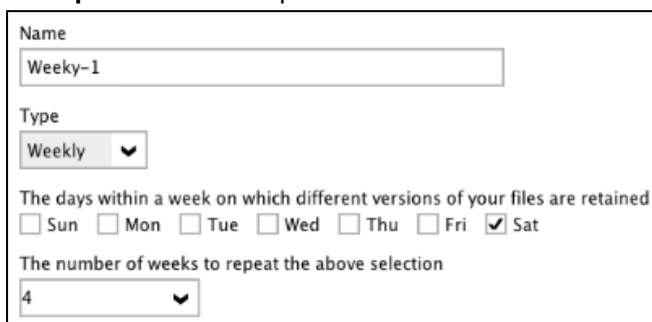
For further details about how to configure an advanced Retention Policy for each type (i.e., Daily, Weekly, Monthly, Quarterly, Yearly), refer to the examples below:

- Example no. 1:** To keep the retention files for the last seven (7) days:



A screenshot of the Retention Policy configuration form for Example no. 1. The 'Name' field contains 'Daily-1'. The 'Type' dropdown is set to 'Daily'. The dropdown for 'The past number of days on which different versions of your files are retained' is set to '7'.

- Example no. 2:** To keep the retention files for the last four (4) Saturdays:



A screenshot of the Retention Policy configuration form for Example no. 2. The 'Name' field contains 'Weekly-1'. The 'Type' dropdown is set to 'Weekly'. The section 'The days within a week on which different versions of your files are retained' shows checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat, with 'Sat' checked. The dropdown for 'The number of weeks to repeat the above selection' is set to '4'.

- **Example no. 3:** To keep the retention files for the 1st day of each month for the last three (3) months:

Name
Monthly-1

Type
Monthly

The day within a month on which different versions of your files are retained
☒ Day 1
☐ First ☐ Sunday

The number of months to repeat the above selection
3

- **Example no. 4:** To keep the retention files for the 1st day of each quarter for the last four (4) quarters:

Name
Quarterly-1

Type
Quarterly

The day within a quarter on which different versions of your files are retained
☒ Day 1
☐ First ☐ Sunday

Months of quarter
January, April, July, October

The number of quarters to repeat the above selection
4

- **Example no. 5:** To keep the retention files for the 1st day of each year for the last seven (7) years:

Name
Yearly-1

Type
Yearly

The day within a year on which different versions of your files are retained
☒ January
☒ Day 1
☐ First ☐ Sunday
☐ Sunday of Week 1

The number of years to repeat the above selection
7

Multiple Advanced Retention Policy can be created.


Retention Policy


How to retain the files in the backup set, which have been deleted in the backup source


☐ Simple


☒ Advanced


Existing advanced retention policies

 **Daily-1**
Daily

 **Weekly-1**
Weekly

 **Monthly-1**
Monthly

 **Quarterly-1**
Quarterly

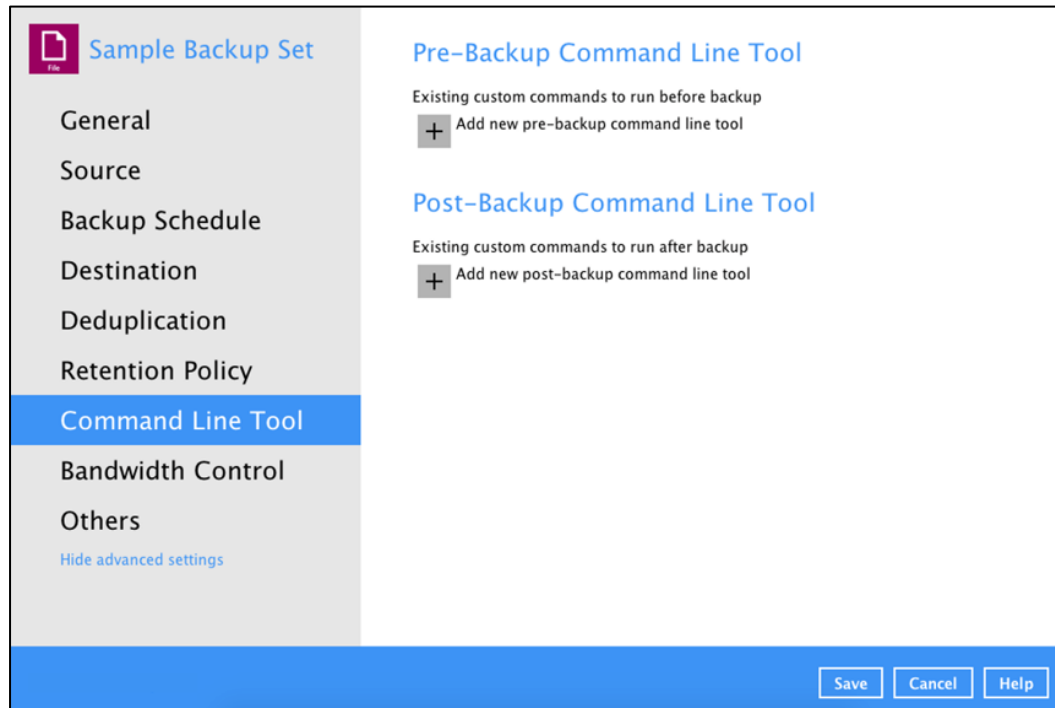
 **Yearly-1**
Yearly

Add

7.4.1.7 Command Line Tool

This feature allows the user to configure a pre-backup or post backup command which can be; an operating system level command, a script or batch file, or third-party utilities to run before and/or after a backup job.

e.g. Connecting to a network drive and disconnecting a network drive, stopping a third-party database (not officially supported by CloudBacko Pro) to perform a cold backup, and restarting a third-party database after a backup.



Requirements and Best Practices

• Error and Exception Handling

Each pre-backup command or batch file should have an error and exception handling. If a pre-backup command contains an error, although an unhandled error may not hinder the backup job process, and the backup job is successful, it will result to a status indicating completed backup with warning(s).

For more details about backup report status, please refer to [Backup Reports](#) in **Chapter 7.5 CloudBacko Pro Overview**.

• Command or Batch File Compatibility

Make sure that each command (pre-backup and post-backup) are tested thoroughly before including them to the backup job.

• Scheduled Backup

If the scheduled backup job is set to stop after x no. of hours, make sure that the duration of the running backup job will not be affected. You may need to adjust the number of hours in the backup schedule configuration. Please refer to [Backup Schedule](#) for more details.

• Pre-backup Command Limitation

A reboot or shutdown must not be used in the pre-backup command. Otherwise, the machine will shut down immediately that will result to a status indicating “Backup not yet finished”.

• Post-backup Command Recommendation

It is recommended to include a timeout for a post-backup command to shut down the machine. This is to ensure that the CloudBacko Pro has enough time to complete the backup process.

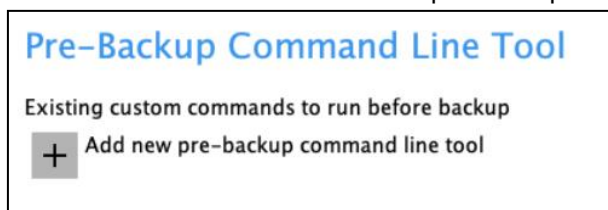
There are three (3) fields in the command line tool:

Field	Description
Name	The user-defined name of the pre-backup or post-backup command.
Working Directory	The location in the local machine which the pre-backup or post-backup command will run at, or the location of the command or created batch file.
Command	The pre-backup or post-backup command which can be defined as a native command or batch file.

Pre-backup Command Line Tool

A pre-backup command is used to execute an action or process before the start of a backup job. To create a pre-backup command, follow the steps below:

1. Click the add + button to add a new pre-backup command line tool.



2. Complete the following details:

- **Name**

Assign a desired name to the pre-backup command.

- **Working Directory**

Click the **Change** button to locate the working directory of the command.

- **Command**

Input a command to be run before a backup job. In this example, the pre-backup command will display the list of the directories.

New Pre-Backup Command Line Tool

Name

Working Directory
 Change

Command

- Click the **OK** button to save the created pre-backup command.

Sample Backup Set Pre-Backup Command Line Tool

New Pre-Backup Command Line Tool

Name

Working Directory
 Change

Command

OK Cancel Help

- Click the **Save** button to save the settings.

Sample Backup Set

- General
- Source
- Backup Schedule
- Destination
- Deduplication
- Retention Policy
- Command Line Tool**
- Bandwidth Control
- Others
- [Hide advanced settings](#)

Pre-Backup Command Line Tool

Existing custom commands to run before backup

Name	Working Directory	Command
Pre-Backup-1	/Users/admin/Documents	ls -la


Add

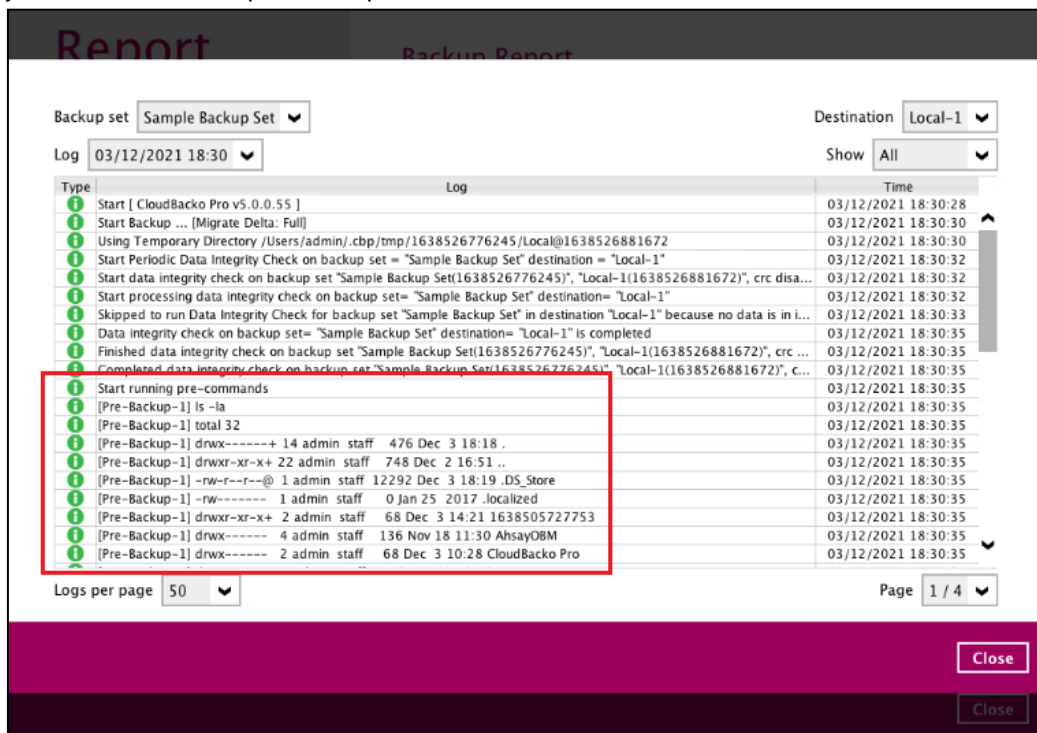
Post-Backup Command Line Tool

Existing custom commands to run after backup

+ Add new post-backup command line tool

Save Cancel Help

- Once a backup job is complete, click the  button to display the backup report log where you can check if the pre-backup command is successful.



Report Backup Report

Backup set: Sample Backup Set Destination: Local-1

Log: 03/12/2021 18:30 Show: All

Type	Log	Time
Start	[CloudBacko Pro v5.0.0.55]	03/12/2021 18:30:28
Start Backup ...	[Migrate Delta: Full]	03/12/2021 18:30:30
Using Temporary Directory	/Users/admin/.cbp/tmp/1638526776245/Local@1638526881672	03/12/2021 18:30:30
Start Periodic Data Integrity Check	on backup set = "Sample Backup Set" destination = "Local-1"	03/12/2021 18:30:32
Start data integrity check	on backup set "Sample Backup Set(1638526776245)", "Local-1(1638526881672)", crc disa...	03/12/2021 18:30:32
Start processing data integrity check	on backup set= "Sample Backup Set" destination= "Local-1"	03/12/2021 18:30:32
Skipped to run Data Integrity Check	for backup set "Sample Backup Set" in destination "Local-1" because no data is in i...	03/12/2021 18:30:33
Data integrity check	on backup set= "Sample Backup Set" destination= "Local-1" is completed	03/12/2021 18:30:35
Finished data integrity check	on backup set "Sample Backup Set(1638526776245)", "Local-1(1638526881672)", crc ...	03/12/2021 18:30:35
Completed data integrity check	on backup set "Sample Backup Set(1638526776245)", "Local-1(1638526881672)", c...	03/12/2021 18:30:35
Start running pre-commands		03/12/2021 18:30:35
[Pre-Backup-1]	ls -la	03/12/2021 18:30:35
[Pre-Backup-1]	total 32	03/12/2021 18:30:35
[Pre-Backup-1]	drwx-----+ 14 admin staff 476 Dec 3 18:18 .	03/12/2021 18:30:35
[Pre-Backup-1]	drwxr-xr-x+ 22 admin staff 748 Dec 2 16:51 ..	03/12/2021 18:30:35
[Pre-Backup-1]	-rw-r--r--@ 1 admin staff 12292 Dec 3 18:19 .DS_Store	03/12/2021 18:30:35
[Pre-Backup-1]	-rw----- 1 admin staff 0 Jan 25 2017 .localized	03/12/2021 18:30:35
[Pre-Backup-1]	drwxr-xr-x+ 2 admin staff 68 Dec 3 14:21 1638505727753	03/12/2021 18:30:35
[Pre-Backup-1]	drwx----- 4 admin staff 136 Nov 18 11:30 AhsayOBM	03/12/2021 18:30:35
[Pre-Backup-1]	drwx----- 2 admin staff 68 Dec 3 10:28 CloudBacko Pro	03/12/2021 18:30:35

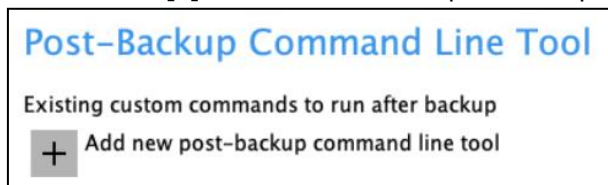
Logs per page: 50 Page: 1 / 4

Close

Post-backup Command Line Tool

A post-backup command is used to execute an action or process after a backup job. To create a post-backup command, follow the steps below:

- Click the add **[+]** button to add a new post-backup command line tool.



Post-Backup Command Line Tool

Existing custom commands to run after backup

+ Add new post-backup command line tool

- Complete the following details:

- Name**

Assign a desired name to the post-backup command.

- Working Directory**

Click the **Change** button to locate the working directory of the command.

- Command**

Input a command to be run after a backup job. In this example, the post-backup command will display the list of the directories.

New Post-Backup Command Line Tool

Name

Working Directory
 Change

Command

- Click the **OK** button to save the created post-backup command.

Sample Backup Set Pre-Backup Command Line Tool

New Post-Backup Command Line Tool

Name

Working Directory
 Change

Command

OK Cancel Help

- Click the **Save** button to save the settings.

Sample Backup Set

- General
- Source
- Backup Schedule
- Destination
- Deduplication
- Retention Policy
- Command Line Tool**
- Bandwidth Control
- Others
- [Hide advanced settings](#)

Pre-Backup Command Line Tool

Existing custom commands to run before backup

Pre-Backup-1
 Working Directory: /Users/admin/Documents, Command: ls -la

Add


Post-Backup Command Line Tool

Existing custom commands to run after backup

Post-Backup-1
 Working Directory: /Users/admin/Documents, Command: pmset sleepnow

Add

Save Cancel Help

- Once the backup job is complete, click the  button to display the backup report log where you can check if the post-backup command is successful.

Report

Backup Report

Backup set Sample Backup Set
Destination Local-1

Log 03/12/2021 18:30
Show All

Type	Log	Time
	Total New Links = 0	03/12/2021 18:30:38
	Total Updated Files = 0	03/12/2021 18:30:38
	Total Resource Updated File = 0	03/12/2021 18:30:38
	Total Deleted Files = 0	03/12/2021 18:30:38
	Total Deleted Directories = 0	03/12/2021 18:30:38
	Total Deleted Links = 0	03/12/2021 18:30:38
	Total Moved Files = 0	03/12/2021 18:30:38
	Start running retention policy on backup set "Sample Backup Set(1638526776245)", "Local-1(1638526881672)"	03/12/2021 18:30:38
	Start processing space freeing up on backup set= "Sample Backup Set (1638526776245)" destination= "Local-1 (1638526881672)"	03/12/2021 18:30:38
	Space freeing up on backup set= "Sample Backup Set (1638526776245)" destination= "Local-1 (1638526881672)"	03/12/2021 18:30:38
	Finished running retention policy on backup set "Sample Backup Set(1638526776245)", "Local-1(1638526881672)"	03/12/2021 18:30:38
	Saving server information to destination.	03/12/2021 18:30:38
	Saving encrypted backup file index to 1638526776245/blocks/2021-12-03-18-30-11 at destination Local-1...	03/12/2021 18:30:39
	Saving encrypted backup settings to settings/admins-Mac-5-2021-12-03.xml at destination Local-1...	03/12/2021 18:30:39
	Start running post-commands	03/12/2021 18:30:39
	[Post-Backup-1] pmset sleepnow	03/12/2021 18:30:39
	[Post-Backup-1] Sleeping now...	03/12/2021 18:30:39
	Finished running post-commands	03/12/2021 18:30:39
	Deleting temporary file /Users/admin/.cbp/tmp/1638526776245/Local@1638526881672	03/12/2021 18:30:42
	Backup Completed Successfully	03/12/2021 18:30:42

Logs per page 50
Page 4 / 4

Close

NOTE

- Multiple Pre-backup and Post-backup commands can be created in the Command Line Tool.
- Errors from Pre-backup and Post-backup commands will only be flagged as a warning and will not cause an error. The warning may be viewed in the logs.
- To trigger a job warning, Pre-backup and Post-backup commands must output a message to stderr. It is not possible to cause a job "Error" message to be logged.

7.4.1.8 Bandwidth Control

This feature allows the user to limit the amount of bandwidth used by backup traffic between specified times. This bandwidth control is configured as disabled by default.

There are two (2) types of bandwidth control:

Bandwidth Control Type	Description
Independent	Each backup and restore has its assigned bandwidth.
Share	All backup and restore operations are sharing the same assigned bandwidth.

NOTE

Share mode does not support performing backup job on multiple destinations concurrently.


To enable the bandwidth control setting, follow the steps below:

1. Slide the lever to the right to turn on the bandwidth control.

2. Select a bandwidth control mode.

- Click the **Add** button to create a modified bandwidth control.

Existing bandwidth controls

 Add new bandwidth control

- Complete the following fields then click the **OK** button to save the new bandwidth control.

- Name**
- Type**
- Maximum transfer rate**

Field	Description
Name	The name of the bandwidth control set.
Type	The type of enforced bandwidth control period.
Maximum transfer rate	The maximum bandwidth used.

Sample Backup Set

Bandwidth Control

New Bandwidth Control

Name

Bandwidth Control-1

Type

☒ Always
☐ Only within this period


Maximum transfer rate

100 Kbit/s

OK Cancel Help

Save Cancel Help

5. Click the **Save** button to store settings.



Sample Backup Set

- General
- Source
- Backup Schedule
- Destination
- Deduplication
- Retention Policy
- Command Line Tool
- Bandwidth Control**
- Others
 [Hide advanced settings](#)

Bandwidth Control

Limit the transfer rate when performing backup and restore tasks


On ☐

Mode

☒ Independent

☐ Share

Existing bandwidth controls


Bandwidth Control-1

[Add](#)

[Save](#)
[Cancel](#)
[Help](#)

7.4.1.9 Others

Below is the list of other configurable options under the backup set settings:

- [Temporary Directory](#)
- [Follow Link](#)
- [Compression](#)
- [Encryption](#)
- [Recycle Bin](#)
- [Restore Drill](#)

Temporary Directory

The CloudBacko Pro uses the temporary directory for both backup and restore operations.

The screenshot displays the 'Sample Backup Set' configuration window in CloudBacko Pro. The left sidebar lists various settings categories: General, Source, Backup Schedule, Destination, Deduplication, Retention Policy, Command Line Tool, Bandwidth Control, and Others (which is currently selected and highlighted in blue). Below the sidebar, there is a 'Hide advanced settings' link. The main content area is titled 'Temporary Directory' and contains the following settings:

- Temporary Directory:** A text field shows the path '/Users/admin/.cbp/tmp' with a 'Change' button next to it. Below the field, it indicates '46.49GB free out of total 79.68GB space in /Users/admin/.cbp/tmp'.
- Follow Link:** A checkbox labeled 'Follow link of the backup files' is checked, with the text 'On' and a blue toggle switch.
- Compressions:** A dropdown menu labeled 'Select compression type' is set to 'Fast with optimization for local'.
- Encryption:** A checkbox labeled 'Do not use encryption' is checked.
- Recycle Bin:** A checkbox labeled 'Move the file to the Recycle Bin when remove file from Retention Policy or DIC' is checked.

At the bottom right of the window, there are 'Save' and 'Cancel' buttons.

For a **backup job**, it is used to temporarily store backup set index files. An updated set of index files is generated after each backup. The index files are synchronized to each individual backup destination at the end of each backup job.

For a **restore job**, it is used to temporarily store temporary restore files.

NOTES

For best practice, the temporary directory should be located on:

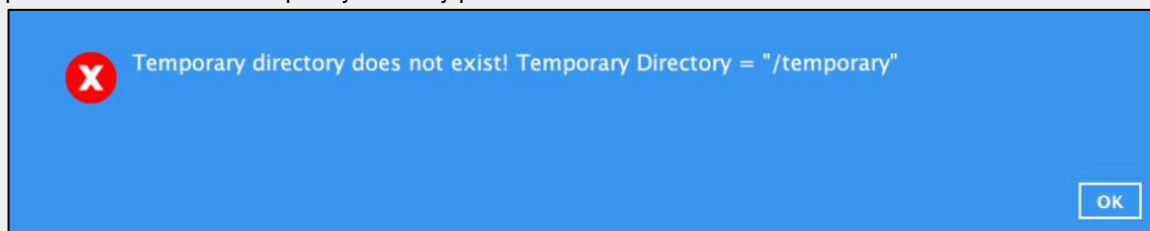
- A local drive for optimal backup and restore performance.

And should not be located on:

- System drive, as the System drive is used by Mac and other applications. There will be frequent disk I/O activity which may affect both backup and restore performance.
- A network drive, as it could affect both backup and restore performance.

It is recommended to select the 'Remove temporary files after backup' option on the backup set to keep the temporary drive clear.

The message below will be displayed if the path to the temporary directory is inaccessible. Click OK then proceed to correct the temporary directory path.



To change the temporary directory, follow the steps below:

1. Click the **Change** button to select a directory path for storing temporary data.

A configuration window titled "Temporary Directory". It contains a text field with the path "/Users/admin/temp" and a "Change" button. Below the text field, it shows "53.88GB free out of total 79.2GB space in /Users/admin/temp". At the bottom, there is a checked checkbox labeled "Remove temporary files after backup".

2. Click the **Save** button to store settings.

Follow Link

This feature allows the user to enable or disable the follow link which defines the NTFS junction or symbolic link during a backup job. This feature is configured as enabled by default.

A configuration window titled "Follow Link". It contains a label "Follow link of the backup files" and a toggle switch. The toggle is currently in the "On" position, indicated by a blue bar.

NOTE

The Follow Link feature is only applicable for File Backup Sets.

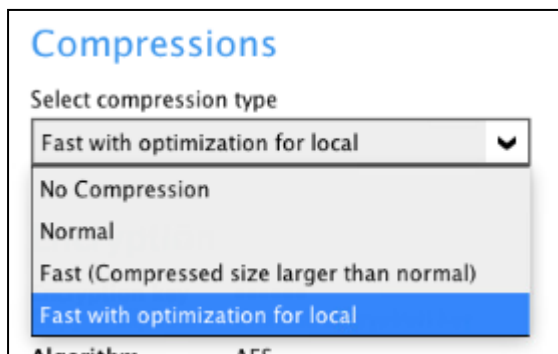
Compressions

This feature is used to enable compression of data during a backup job. When the compression is enabled, the CloudBacko Pro will compress all the files before it is backed up to the backup destination(s). Newly create backup sets are configured to use **Fast with optimization for local**.

These are the four (4) compression types:

- **No Compression** - No compression of file will be made
- **Normal** - Compressed file size is the smallest but with high CPU usage

- **Fast** - Compressed file size is larger than Normal Compression but with lower CPU usage
- **Fast with optimization for local** - Compressed file size is larger than Fast Compression but with the lowest CPU usage

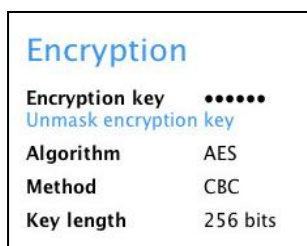


NOTE

The Compression type can be changed anytime even after a backup job. The modified compression type will be applied on the next run of a backup.

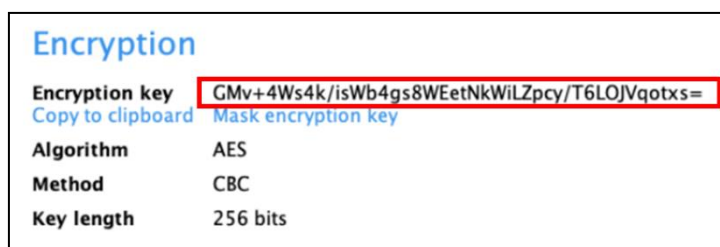
Encryption

This feature allows the user to view the encryption settings.



To view the encryption key of the backup set, follow the steps below:

1. Go to Backup Sets, then select a backup set.
2. Click the **Others** tab in the backup set settings.
3. Click **Unmask encryption key** to display the encryption key of the backup set.



4. Click **Copy to clipboard** to copy the encryption key of the backup set.

Encryption

Encryption key	GMv+4Ws4k/isWb4gs8WEetNkWiLZpcy/T6LOJ/Vqotxs=
Copy to clipboard	Mask encryption key
Algorithm	AES
Method	CBC
Key length	256 bits

NOTE

The encryption setting can only be configured during the creation of backup set. For more details about encryption settings, please refer to step no. 14 in [Chapter 8 Create a Backup Set](#).

Recycle Bin

This feature is for protection of the BAK (block) files stored in the Backup Set's destination, allows the user to set the number of days BAK files that were deleted due to Retention Policy or Data Integrity Check, will be held under Recycle Bin as added protection.

This is how the Recycle Bin will treat deleted data:

- Data in the Recycle Bin will consume Quota.
- It does not move the data in another location within the storage, instead the index tracks the xxxxx.bak files and the remaining time in the Recycle Bin.
- If the index is reverted to a previous timestamp, the settings of the Recycle Bin in the reverted index will be followed.
- Recoverability of data is not affected when the Recycle Bin is alternately enabled or disabled.
 - When enabled, it will only check if the data inside the Recycle Bin is still within the set number of days. Once it is beyond the set number of days it will only be deleted when the following operations are run: Backup, Space Freeing Up, Data Integrity Check and Delete Backup Data.
 - When disabled, if there are already deleted files it will not automatically delete the data inside the Recycle Bin. It will remain in the Recycle Bin even if it is beyond the set number of days. It will only be deleted when the following operations are run: Backup, Space Freeing Up, Data Integrity Check and Delete Backup Data.
- Once the Recycle Bin is disabled, deleted files will be removed immediately and will not be moved in the Recycle Bin.
- The setting applies to all destinations for the backup set.
- Viewing Recycle Bin contents is not available.
- Recycle Bin cleanup is done at the start of the backup job process.
- Recovering from Recycle Bin requires reverting the index. For instructions on how to revert the index please refer to this article: [FAQ: How to un-delete backup data moved to Retention, or revert indexes to a healthy state from an earlier successful backup.](#)

WARNING

When reverting index, new data will be lost.


This is enabled by default set with 7 days.

Recycle Bin

Move the file to the Recycle Bin when remove file from Retention Policy or DIC

On ☒

Keep the deleted files for

 day(s)

To set the number of days, follow the steps below:

1. Go to Backup Sets, then select a backup set.
2. Click the **Others** tab in the backup set settings.
3. Under Recycle Bin, select the number of days or you can enter it manually.

Keep the deleted files for

▼

day(s)

Restore Drill

The Restore Drill feature is used to run a trial restore to detect any corrupted data with backed up data. It ensures that backup data is always in a restorable state, alerting users regarding any corrupted data in the backup. For backup data that has been corrupted, a new backup job either via schedule or manually run, is required to fix the issue.

Restore Drill

Run trial restore to ensure data healthiness and update corrupted files.

On ☒

Run restore drill every

6 Months

To configure Restore Drill, follow the steps below:

1. Go to **Backup Sets**, then select a Backup Set.
2. Click the **Others** tab, then search for **Restore Drill**.
3. After turning it on, select the desired frequency you wish Restore Drill jobs should run. The options for these are:
 - a. 6 months
 - b. 12 months
 - c. 24 months
4. Click **Save** to apply the settings.

In order to receive an email report after a restore drill job was run, ensure that you have set up your email in Settings > Email Report. For more information on how to do this, please refer to [Ch. 7.7.2 Email Report](#). The report received will depend on this setting.

Here is a sample of the restore drill report.

from: [support@cloudbacko.com](#)
 date: 09/13/2023 11:01 AM
 to: [support@cloudbacko.com](#)

Hi **WIT**!

Here is the summary of your restore drill job "2023-09-13-10-12-53".

Backup Set: File-1
 Destination: GoogleDrive-1
 Backup Job: 2023-09-13-10-07-28
 Job Status: OK
 Restore Drill Duration: 09/13/2023 10:12:53 CST - 09/13/2023 10:14:56 CST
 Total Data Size: 771.73 M (4064)
 Restored Data Size: 771.73 M (4064)
 Invalid Data: 0
 Unverifiable Data: 0

Have a nice day!
 - CloudBacko Team

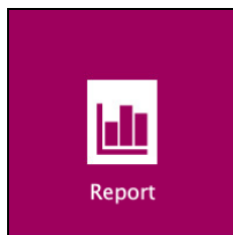
Please don't reply to this auto-generated email report. If you prefer not to receive this report anymore, you can turn it off in the Settings > Email Report section of your CloudBacko Pro software.

NOTE

If there are several restore drill jobs that are run, it will all be displayed in this email. If the email report setting was changed, all the previous restore drill job reports that were not sent will be sent according to the new email report setting.

Report

This feature allows user to view backup and restore reports as well as the usage and purchase record.



There are four (4) options available for this feature, namely:

- ▶ [Backup](#)
- ▶ [Restore](#)
- ▶ [Usage](#)
- ▶ [Purchase](#)

Report

- Backup**
- Restore
- Usage
- Purchase

Backup Report

From
To
Go

Backup set	Destination	Completion	Status
Sample Backup...	Local-1	Today 16:19	Warning
Sample Backup...	Local-1	Today 16:16	Interrupted
Sample Mobile...	Local-1	Today 12:09	Completed
Sample Backup...	Local-1	Today 11:39	Completed
Sample Backup...	Local-1	Today 11:35	Completed
Sample Backup...	Local-1	Today 11:26	Completed

No. of records per page
Page

Close
Help

7.4.2 Backup

This option is used to run and view **backup reports**. There are four (4) filters that can be applied on this feature, namely:

- Date range
- Backup set
- Destination
- Status

Report

- Backup**
- Restore
- Usage
- Purchase

Backup Report

From
03 Dec 2021
To
10 Dec 2021
Go

Backup set	Destination	Completion	Status
Sample Backup...	Local-1	Today 16:19	Warning
Sample Backup...	Local-1	Today 16:16	Interrupted
Sample Mobile...	Local-1	Today 12:09	Completed
Sample Backup...	Local-1	Today 11:39	Completed
Sample Backup...	Local-1	Today 11:35	Completed
Sample Backup...	Local-1	Today 11:26	Completed

No. of records per page
50
Page
1 / 1

Close
Help

By setting the **Date range**, you will see the list of all backup report(s) within that period.

Backup Report

From
03 Dec 2021
To
10 Dec 2021
Go

Backup set	Destination	Completion	Status
Sample Backup...	Local-1	Today 16:19	Warning
Sample Backup...	Local-1	Today 16:16	Interrupted
Sample Mobile...	Local-1	Today 12:09	Completed
Sample Backup...	Local-1	Today 11:39	Completed
Sample Backup...	Local-1	Today 11:35	Completed
Sample Backup...	Local-1	Today 11:26	Completed

You can view the backup report(s) of a specific backup set by using the **Backup set** filter.

Backup Report

From 03 Dec 2021 To 10 Dec 2021 **Go**

Backup set	Destination	Completion	Status
Backup set	Local-1	Today 16:19	Warning
Sample Backup Set	Local-1	Today 16:16	Interrupted
Sample Backup Set	Local-1	Today 12:09	Completed
Sample Mobile Back	Local-1	Today 11:39	Completed
Sample Backup Set	Local-1	Today 11:35	Completed
Sample Backup...	Local-1	Today 11:26	Completed

If you want to see the backup report(s) in your selected storage location, use the **Destination** filter.

Backup Report

From 03 Dec 2021 To 10 Dec 2021 **Go**

Backup set	Destination	Completion	Status
Sample Backup...	Local-1	Today 16:19	Warning
Sample Backup...	Local-1	Today 16:16	Interrupted
Sample Mobile...	Local-1	Today 12:09	Completed
Sample Backup...	Local-1	Today 11:39	Completed
Sample Backup...	Local-1	Today 11:35	Completed
Sample Backup...	Local-1	Today 11:26	Completed

By applying this filter, all backup reports with the same **Status** will be shown.

Backup Report

From 03 Dec 2021 To 10 Dec 2021 **Go**

Backup set	Destination	Completion	Status
Sample Backup...	Local-1	Today 16:19	Warning
Sample Backup...	Local-1	Today 16:16	Interrupted
Sample Mobile...	Local-1	Today 12:09	Completed
Sample Backup...	Local-1	Today 11:39	Completed
Sample Backup...	Local-1	Today 11:35	Completed
Sample Backup...	Local-1	Today 11:26	Completed

In order to see a backup report in detail, select a backup set.

Backup Report

From
To

03
Dec
2021
10
Dec
2021
Go

Backup set	Destinati...	Completion	Status
Sample Backup Set	Local-1	Today 11:39	Completed
Sample Backup Set	Local-1	Today 11:35	Completed
Sample Backup Set	Local-1	Today 11:26	Completed

Click **View log** to see the event log during a backup.

Backup Report

From
To

03
Dec
2021
10
Dec
2021
Go

Backup set	Destination	Completion	Status
Sample Backup...	Local-1	Today 11:35	Completed

Backup set

Sample Backup Set

Destination

Local-1

Job

10/12/2021 11:24

Time

Today 11:24 - 11:26 (PHT)

Status

✓ Completed successfully

New files *

52 [580.7MB/688.6MB (15%)]

Updated files *

0

Attributes Changed Files *

0

Moved files *

0

Deleted files *

0

Dedupe Saving

13.6G/14.2G [95.6%]

* Unit = No of files [Total zipped size / Total unzipped size (compression ratio)]

View log

X

No. of records per page
50
Page
1 / 1

Backup set, time, destination, and status can be filtered here. You can also choose to view the number of logs per page.

Report

Backup Report

Backup set
Sample Backup Set

Destination
Local-1

Log
10/12/2021 11:24

Show
All

Type	Log	Time
Start [CloudBacko Pro v5.0.0.55]		10/12/2021 11:25:15
Start Backup ... [Migrate Delta: Incremental]		10/12/2021 11:25:21
Using Temporary Directory /Users/admin/.cbp/tmp/1639105818789/Local@1639106309682		10/12/2021 11:25:21
Start running pre-commands		10/12/2021 11:25:26
Finished running pre-commands		10/12/2021 11:25:26
Downloading server file list...		10/12/2021 11:25:26
Downloading server file list... Completed		10/12/2021 11:25:28
Reading backup source from hard disk...		10/12/2021 11:25:29
Reading backup source from hard disk... Completed		10/12/2021 11:25:30
[New Directory]... /		10/12/2021 11:25:30
[New Directory]... /Users		10/12/2021 11:25:30
[New Directory]... /Users/admin		10/12/2021 11:25:30
[New Directory]... /Users/admin/Documents		10/12/2021 11:25:30
[New Directory]... /Users/admin/Documents/Test Files		10/12/2021 11:25:30
[New Directory]... /Users/admin/Documents/Test Files/Photos		10/12/2021 11:25:30
[New Directory]... /Users/admin/Documents/Test Files/Videos		10/12/2021 11:25:30
[New File]... 10% of ~/Users/admin/Documents/Test Files/Photos/TestPhoto (1).jpg"		10/12/2021 11:25:31
[New File]... 20% of ~/Users/admin/Documents/Test Files/Photos/TestPhoto (1).jpg"		10/12/2021 11:25:31

Logs per page
50

Page
1 / 12

Close

Close Help

7.4.3 Restore

This feature is used for viewing restore report(s). You can also apply filter on **Date range**, **Backup set**, **Destination**, and **Status** here.

Report

- Backup
- Restore**
- Usage
- Purchase

Restore Report

From

03

▼

Dec

▼

2021

▼

To

10

▼





Dec

▼

2021

▼

Go

Backup set	Destination	Job	Status
 Sample Mobile...	 Local-1	Today 12:10	Completed
 Sample Backup...	 Local-1	Today 11:43	Completed

No. of records per page

50

▼

Page

1 / 1

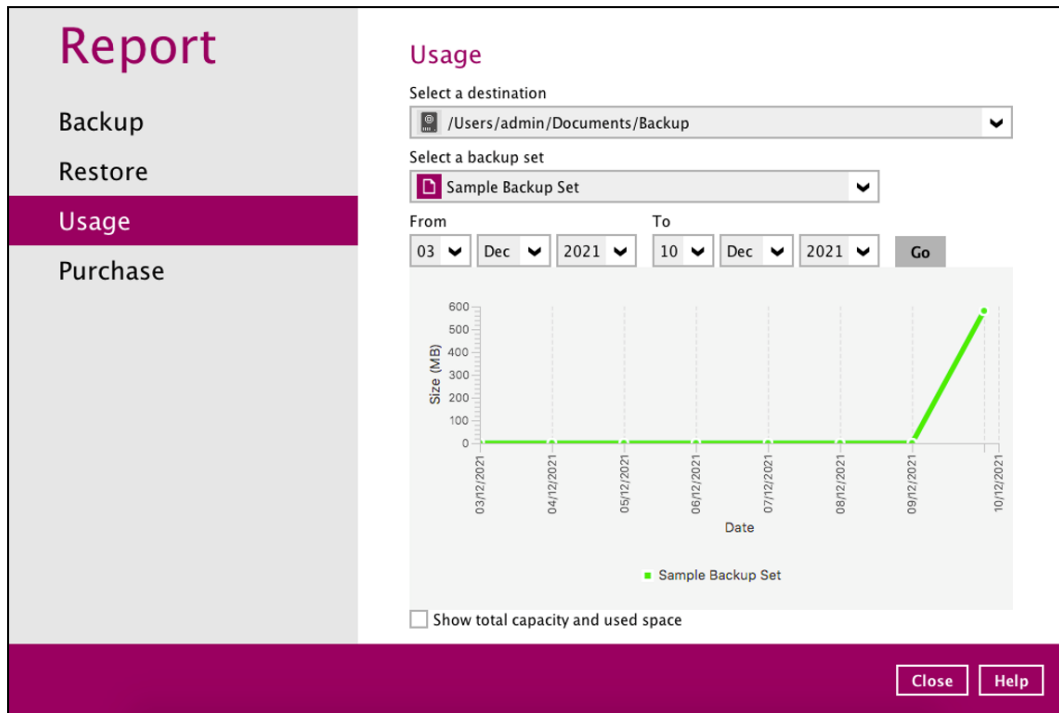
▼

Close

Help

7.4.4 Usage

This allows the user to view the storage and usage information in a graphical view for each backup set and backup destination by date.



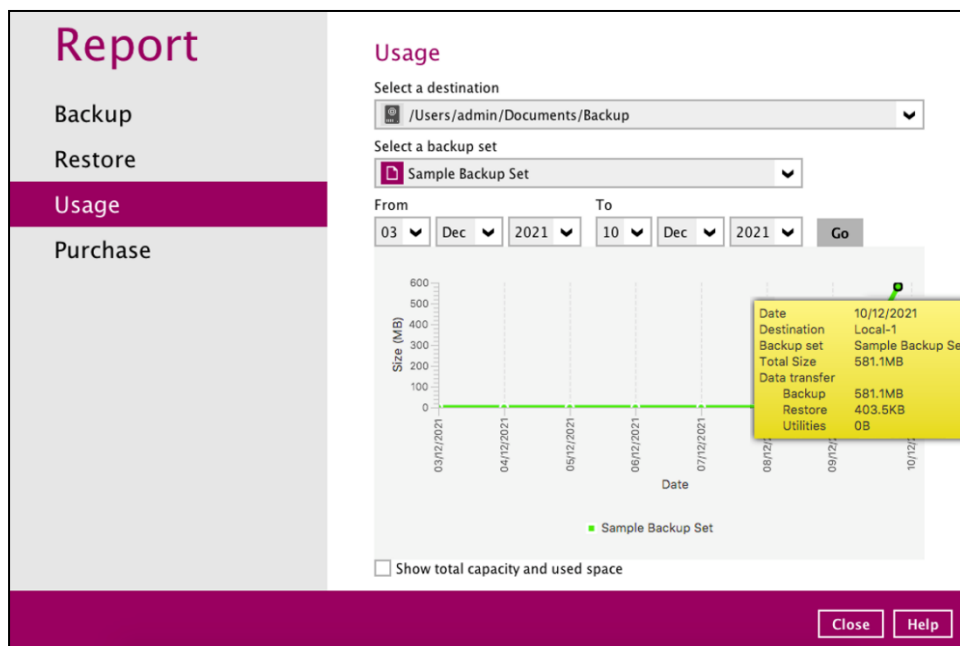
Storage Statistics

Total Size: Displays the total amount of backed up data on the backup destination.

The storage statistics of a backup set is updated every time the following functions are run:

1. Backup job
2. [Periodic Data Integrity Check \(PDIC\)](#)
3. [Data Integrity Check \(DIC\)](#)
4. [Space Freeing Up](#)
5. [Delete Backup Data](#)

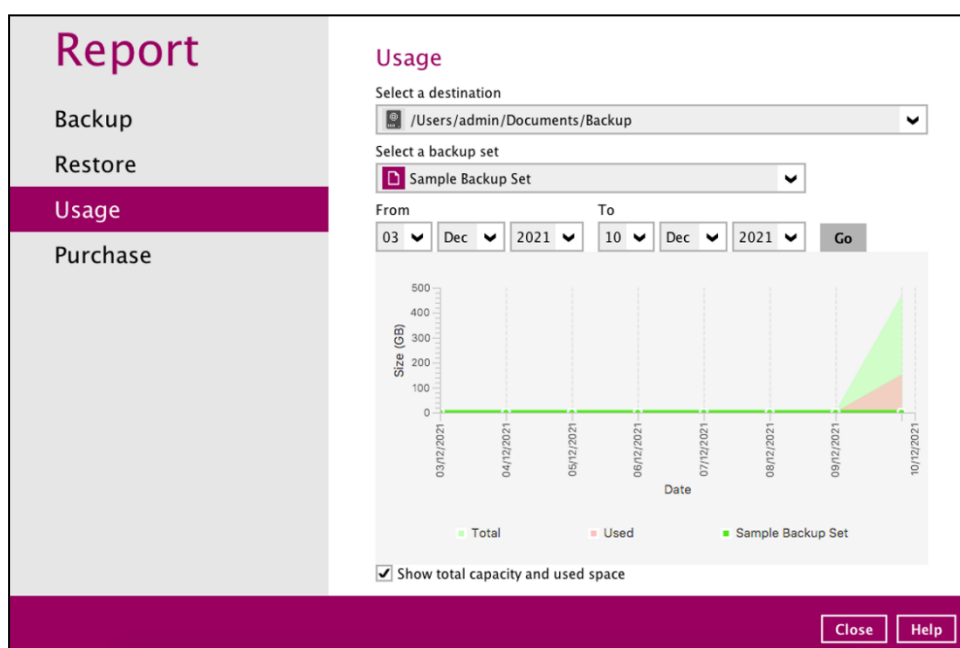
Example: The data transfer statistics will pop up when mouse pointer moves over a specific date.



Data Transfer Statistics

- Backup:** displays the amount of data transferred to the backup destination for backups.
- Restore:** displays the amount of data transferred from the backup destination for restores.
- Utilities:** displays the amount of data transferred from the backup destination, when a Data Integrity Check (DIC) is run with the "Run Cyclic Redundancy Check (CRC) during data integrity check" option selected.

To check the total capacity and used space, tick the checkbox.

☐ Show total capacity and used space


7.4.5 Purchase

This feature is used for viewing purchase report(s) for license key and/or modules purchased based on the license key which is currently applied on CloudBacko Pro.

You can select a purchase date and search for a specific report.

Report

- Backup
- Restore
- Usage
- Purchase**

Purchase Report

Select a purchase date

2021-12-02 16:58
Go

CloudBacko..

CloudBacko Corporation
28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok,
Kowloon
Hong Kong

OFFICIAL RECEIPT

Thank you for your payment. Your transaction has been completed. Below are the details of your purchase. Your order is charged in US Dollar (US\$). A copy of this receipt has been sent to your email [redacted]@gmail.com

License Key : bc[redacted]03-[redacted]-4[redacted]9-****-***** (Online)

Receipt Number : CC-97832
Paid Date : 2021-12-02
Payment Method : DIS

Contact Person : [redacted]
Email : [redacted]@gmail.com
Address : Valero Street, Makati City, Philippines

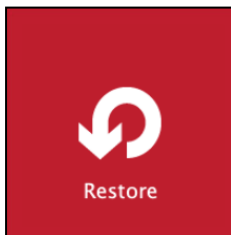
Description	Unit Price	Qty.	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
2. Fully covered coupon			Less US\$99
			Total : US\$0

Print

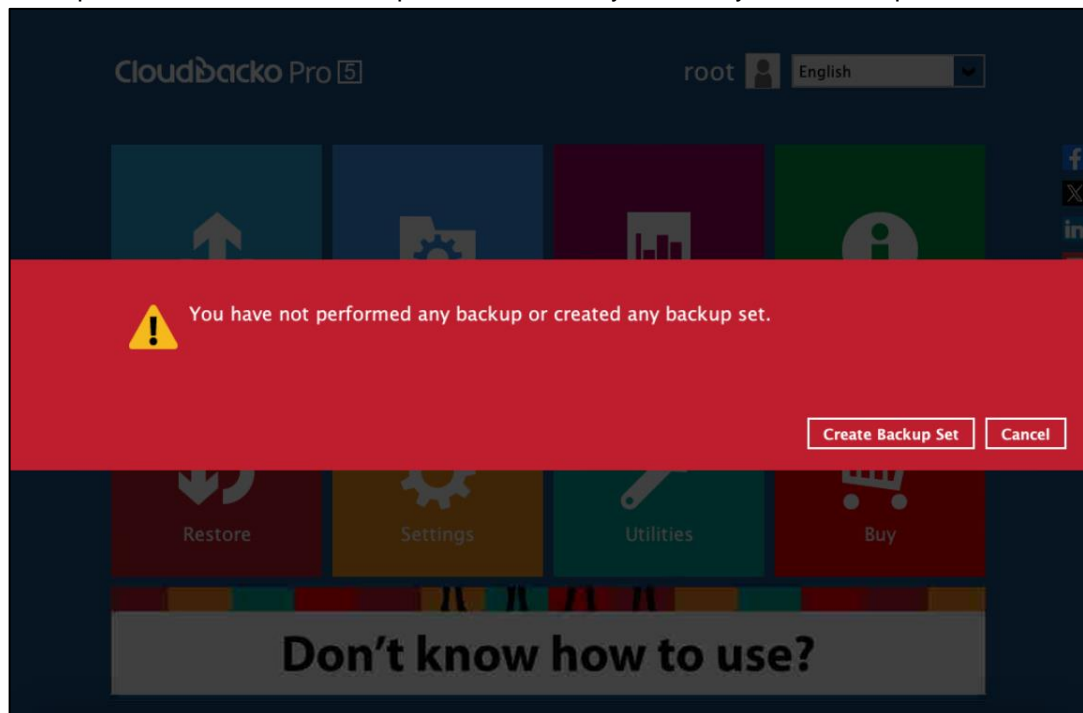
Close
Help

7.5 Restore

This feature is used to copy the backed-up file(s) from the backup set and restore it to its original location or new location.



If using CloudBacko Pro for the first time, you will be asked to create a backup set and run a backup first. A restore cannot be performed unless you already run a backup.

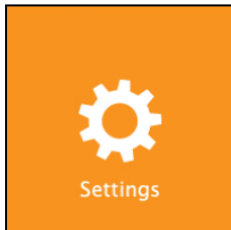


For instructions on how to do a restore, refer to [Chapter 11 Restore Data](#).

7.6 Settings

Settings consist of five (5) sub modules:

- ▶ [Proxy](#)
- ▶ [Email Report](#)
- ▶ [License](#)
- ▶ [Authentication](#)
- ▶ [Mobile Backup](#)



Settings

- Proxy
- Email Report
- License
- Authentication
- Mobile Backup

Proxy (HTTP)

Use proxy to access the Internet

Off ☐

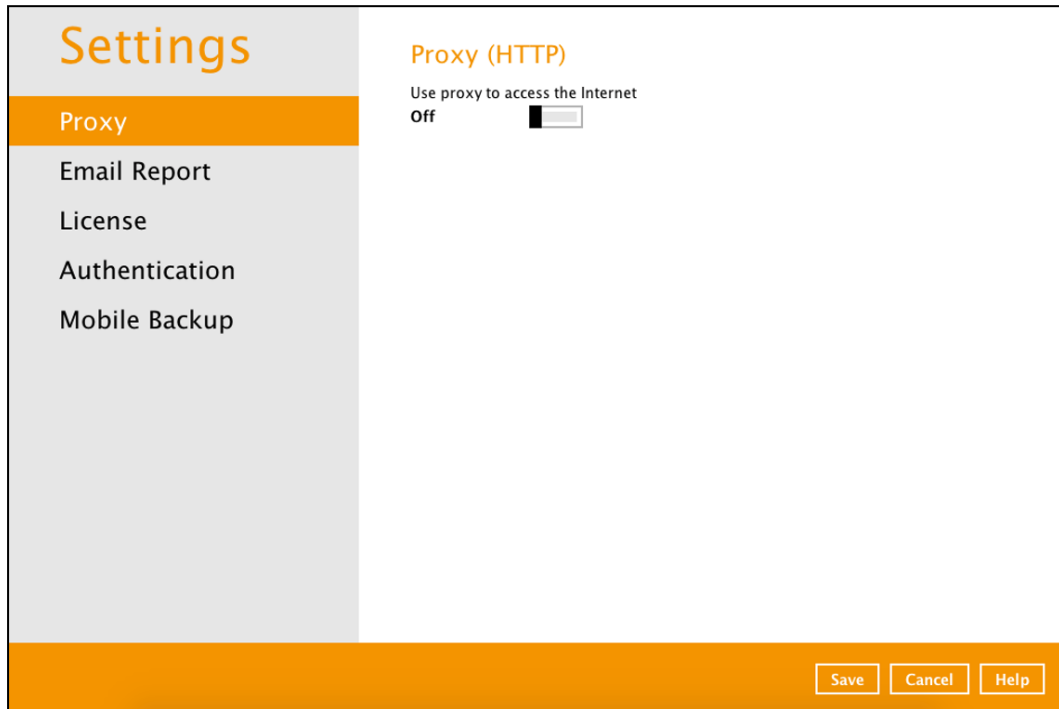
Save

Cancel

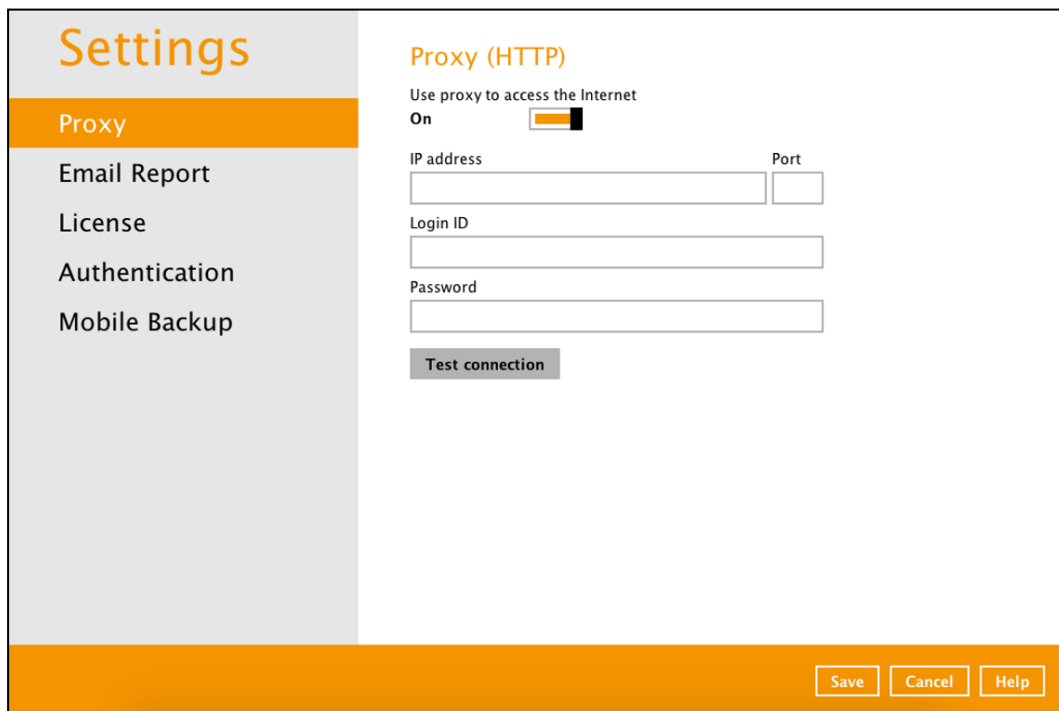
Help

7.6.1 Proxy

To enable the Proxy Settings, follow the instructions below.



The screenshot shows the 'Settings' page with a sidebar menu containing 'Proxy', 'Email Report', 'License', 'Authentication', and 'Mobile Backup'. The 'Proxy' option is selected and highlighted in orange. The main content area is titled 'Proxy (HTTP)' and contains the text 'Use proxy to access the Internet' followed by 'Off' and a toggle switch that is currently in the 'Off' position. At the bottom right of the page, there are three buttons: 'Save', 'Cancel', and 'Help'.



The screenshot shows the 'Settings' page with the 'Proxy' option selected. The main content area is titled 'Proxy (HTTP)' and contains the text 'Use proxy to access the Internet' followed by 'On' and a toggle switch that is currently in the 'On' position. Below this, there are four input fields: 'IP address' and 'Port' (which are adjacent), 'Login ID', and 'Password'. A 'Test connection' button is located below the input fields. At the bottom right of the page, there are three buttons: 'Save', 'Cancel', and 'Help'.

1. Complete the following fields:
 - IP address
 - Port
 - Login ID
 - Password
2. Click the **Test Connection** button to validate the connection.
3. Click the **Save** button to store the settings.

7.6.2 Email Report

The email report will send notifications for backup errors or warnings, missed backup reports, and storage alert.

Settings

- Proxy
- Email Report**
- License
- Authentication
- Mobile Backup

Email Report

Send backup related report to me through email

Off ☐

Save

Cancel

Help

To enable the Email Report feature, follow the instructions below:

1. Complete the following fields then click the **Connection** button to validate the connection.
 - Host
 - Protocol
 - Port
 - Login name
 - Password
 - Report sender email

Settings

Proxy

Email Report

License

Authentication

Mobile Backup

Email Report

Send backup related report to me through email
On ☒

Outgoing SMTP Server

Host
smtp.gmail.com

Protocol SMTP Port 587

Login name
username@gmail.com

Password

Report sender email
report@gmail.com

Connect

Save Cancel

If successfully connected, the email address where the report will be sent should be displayed as well as the list of reports to be received. Enter a valid email then click the **Send test email**.

Settings

Proxy

Email Report

License

Authentication

Mobile Backup

Email Report

Send backup related report to me through email
On ☒

Outgoing SMTP Server

Host
smtp.gmail.com

Protocol SMTP Port 587

Login name
username@gmail.com

Password

Report sender email
report@gmail.com

Successfully connected

Email Address

Send reports to these emails
username@gmail.com

Send test email

Reports to Receive

Save Cancel

Below is the sample screenshot of the test email.

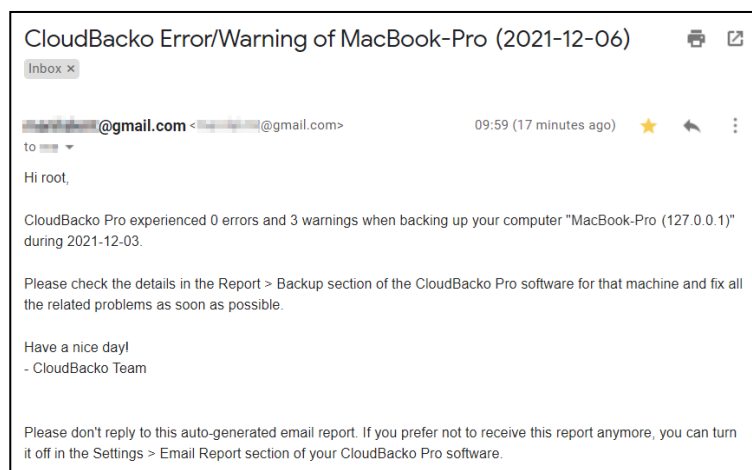


2. Select the reports you want to receive by ticking the checkboxes then click the **Save** button to store the settings.

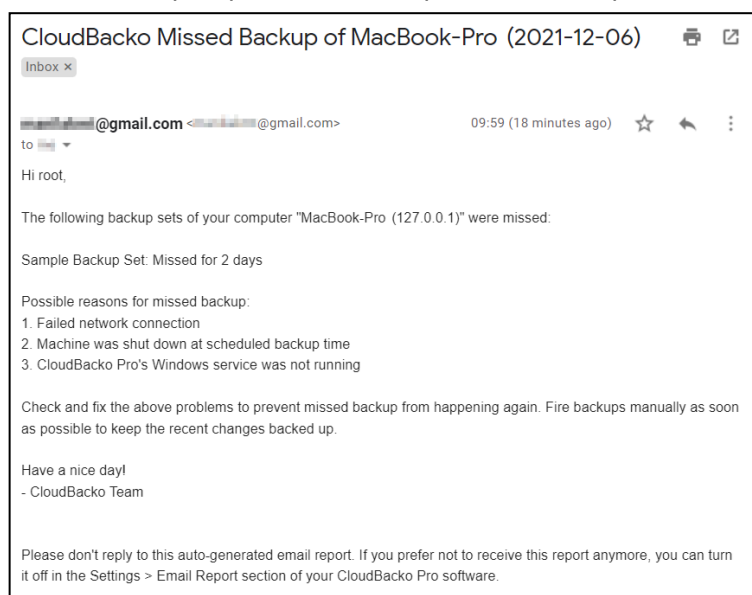
- Backup Error/Warning Report
 - at 23:59 on the day when there are error or warning
 - at 23:59 everyday, when there are no error or warning
- Missed Backup Report when backup missed for a specific number of days
 - Number of days: from 1 to 30
- Storage Alert Report
 - When available space is under 50%
 - When available space is under 40%
 - When available space is under 30%
 - When available space is under 20%
 - When available space is under 10%
- Restore Drill Report
 - For every Restore Drill Job
 - For every Restore Drill Job with corrupted data found

These are sample reports:

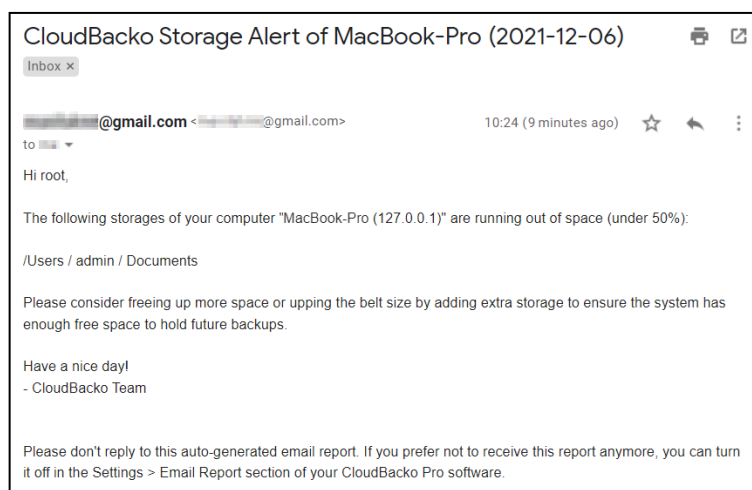
- **Backup Error/Warning Report**



- **Missed Backup Report when backup missed for a specific number of days**



- **Storage Alert Report**



- Restore Drill Report

✓ from: cloudbacko@cloudbacko.com
date: 09/13/2023 11:01 AM
to: prashant@cloudbacko.com

Hi Prashant,

Here is the summary of your restore drill job "2023-09-13-10-12-53".

Backup Set: File-1
Destination: GoogleDrive-1
Backup Job: 2023-09-13-10-07-28
Job Status: OK
Restore Drill Duration: 09/13/2023 10:12:53 CST - 09/13/2023 10:14:56 CST
Total Data Size: 771.73 M (4064)
Restored Data Size: 771.73 M (4064)
Invalid Data: 0
Unverifiable Data: 0

Have a nice day!
- CloudBacko Team

Please don't reply to this auto-generated email report. If you prefer not to receive this report anymore, you can turn it off in the Settings > Email Report section of your CloudBacko Pro software.

7.6.3 License

The License module shows the current license key applied along with the licenses and module usage. Also, it allows the customer to apply full license key to a trial version of CloudBacko Pro.

- **License Key**

Displays the current license key. It could be a trial or full license key.

- **Change License Key**

This feature allows the customer to apply a full license key.

- **Mode**

Displays the mode of the license key either Online or Offline license. Online license key requires a fixed internet connection.

- **Version**

Displays the version of the installed CloudBacko whether it is trial or full version. For trial license, it will indicate the number of days before the trial expires.

- **Buy full version** (Displays in trial version only)

This feature allows the customer to buy the full version of the CloudBacko Pro.

- **Modules** (Displays in trial version only)

This are the following modules enabled for CloudBacko Pro.

- CloudBacko Pro software
- MySQL Backup Module
- Cloud File Backup Module
- Microsoft 365 Backup Module

- **Installations** (Displays in full version only)

- **Item** – these are the software and modules allowed for CloudBacko Pro.
 - CloudBacko Pro software
 - MySQL Backup Module
 - Cloud File Backup Module
 - Microsoft 365 Backup Module
 - MariaDB Backup Module
 - VMware Backup Module
 - PostgreSQL Backup Module
- **Allowed** – displays the allowed number for each module for CloudBacko Pro.
- **Used (This computer)** – displays the total number of used software or add on modules on all computers. The number in brackets refers to the used software or add on modules on the current computer.

This is a sample screenshot for a trial version of CloudBacko Pro.

Settings

Proxy

Email Report

License

Authentication

Mobile Backup

License

License Key

*****-****-*****

Change License Key

Mode

Online

Version

CloudBacko™ Pro v5 Trial Version (Expires in 29 days)

Buy full version

Modules

CloudBacko Pro software	Enabled
Cloud File Backup Module	Enabled
IBM Lotus Domino Backup Module	Enabled
IBM Lotus Notes Backup Module	Enabled
Microsoft Exchange Server Backup Module	Enabled
Microsoft SQL Server Backup Module	Enabled
Microsoft Hyper-V Backup Module	Enabled
Microsoft Windows System Backup Module	Enabled
MySQL / MariaDB Backup Module	Enabled
Office 365 Backup Module	Enabled
Oracle Database Server Backup Module	Enabled
VMware Backup Module	Enabled

Save

Cancel

Help

This is a sample screenshot for a full version of CloudBacko Pro.

Settings

Proxy

Email Report

License

Authentication

Mobile Backup

License

License Key
b03-9a78-*****
[Change License Key](#)

Mode
Online

Version
CloudBacko™ Pro v5 Full Version

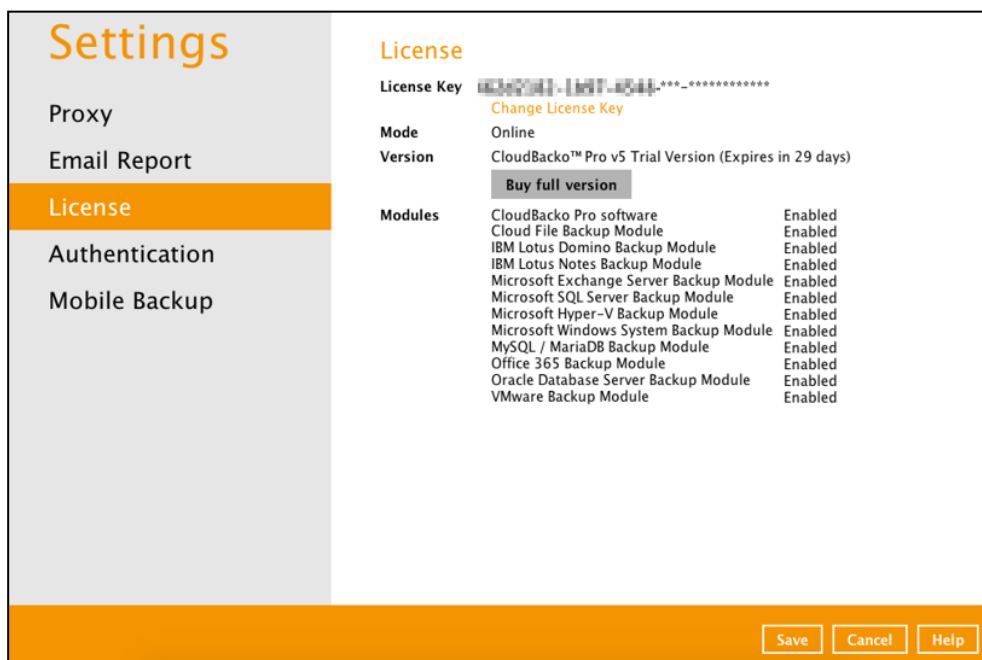
Installations	Item	Allowed	Used (This computer)
	CloudBacko Pro software	2	1 (1)
	Cloud File Backup Module	0	0 (0)
	IBM Lotus Domino Backup Module	0	0 (0)
	IBM Lotus Notes Backup Module	0	0 (0)
	Microsoft Exchange Server Back...	0	0 (0)
	Microsoft SQL Server Backup Mo...	0	0 (0)
	Microsoft Hyper-V Backup Module	0	0 (0)
	Microsoft Windows System Back...	0	0 (0)
	MySQL / MariaDB Backup Module	0	0 (0)
	Office 365 Backup Module	0	0 (0)
	Oracle Database Server Backup ...	0	0 (0)
	VMware Backup Module	0	0 (0)

Save

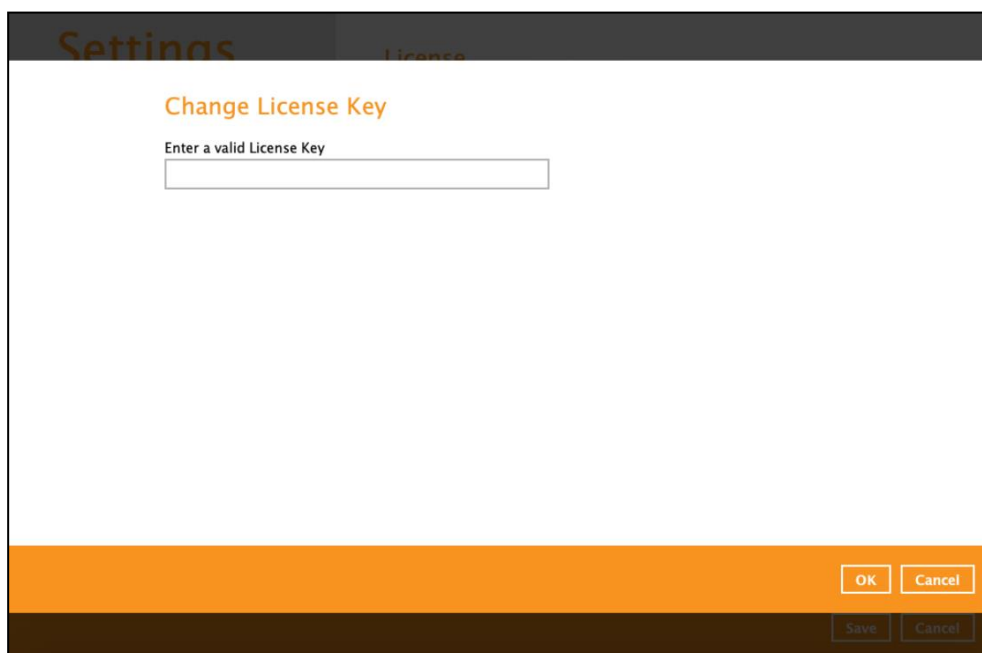
Cancel

To apply a license key, follow the instructions below:

1. Click **Change License Key**.



2. Enter a valid license key then click **OK**.



Settings

License

Change License Key

Enter a valid License Key

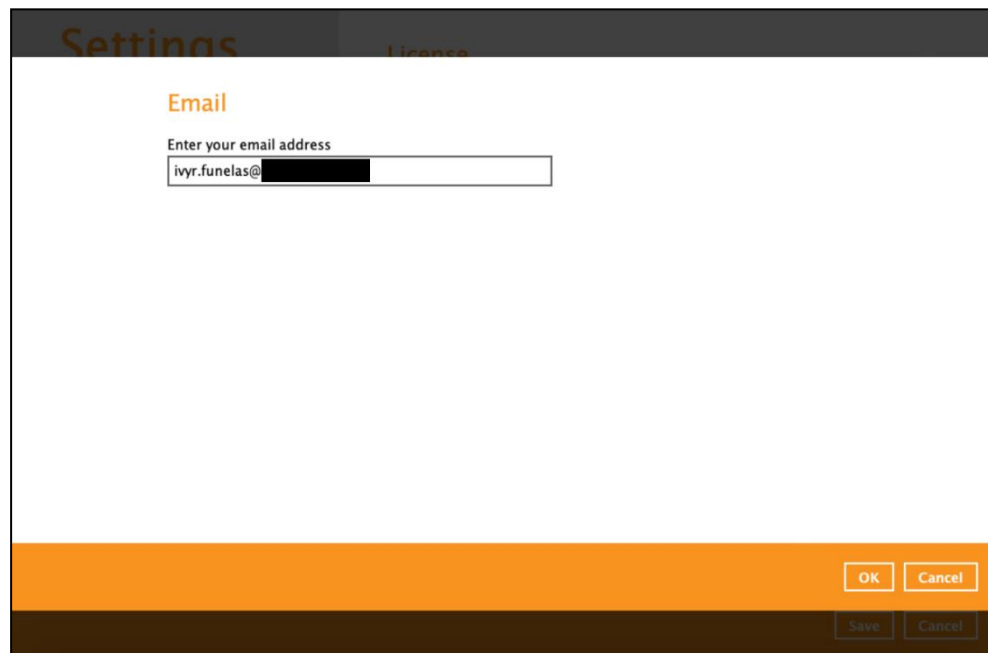
✔ License key verified successfully

Next

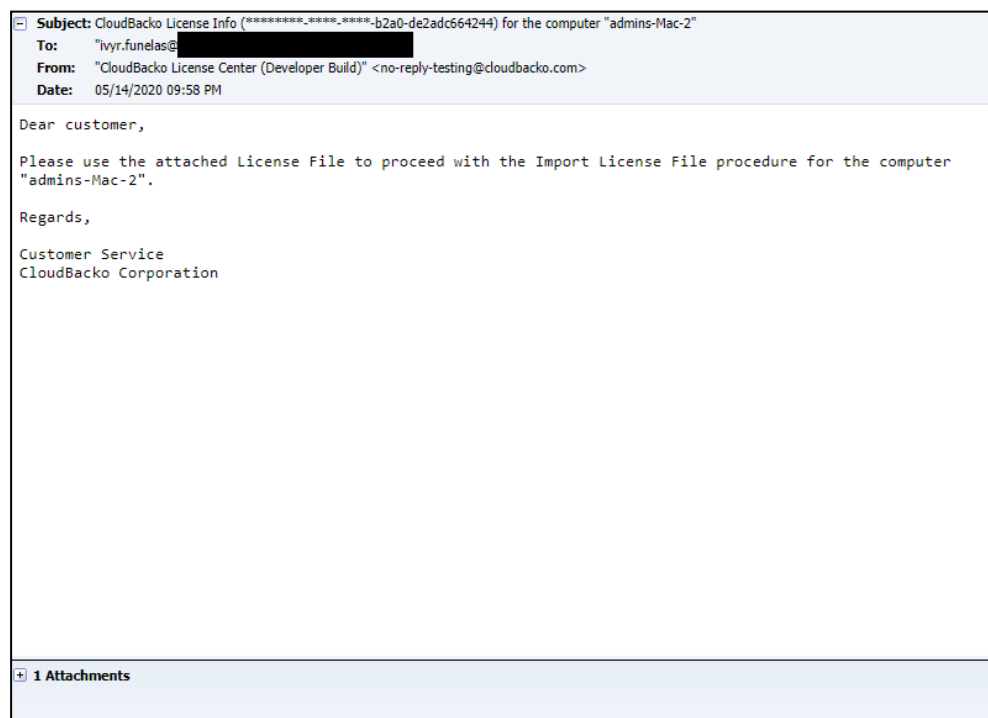
Save

Cancel

3. Enter a valid email address.



The screenshot shows the 'Settings' dialog box with the 'Email' tab selected. The title bar says 'Settings' and 'License'. The main content area has the heading 'Email' in orange. Below it, the text 'Enter your email address' is followed by a text input field containing 'ivyr.funelas@' and a masked domain. At the bottom right, there are two buttons: 'OK' and 'Cancel'.



The screenshot shows an email client interface. The email header includes the subject 'Subject: CloudBacko License Info (*****-b2a0-de2adc664244) for the computer "admins-Mac-2"', the to address 'ivyr.funelas@', the from address 'CloudBacko License Center (Developer Build) <no-reply-testing@cloudbacko.com>', and the date '05/14/2020 09:58 PM'. The body of the email starts with 'Dear customer,' followed by a paragraph: 'Please use the attached License File to proceed with the Import License File procedure for the computer "admins-Mac-2".', then 'Regards,' and 'Customer Service CloudBacko Corporation'. At the bottom, there is a section labeled '1 Attachments'.

4. Click **Browse** to search for the **activation.olr** sent to thru email. Click **Import** to process the activation then click **Close** to return to the main screen.

Settings | **License**

Import the license file

Check "ivyr.funelas@" for an email titled "CloudBacko License Info" and import the attached License File to here

Settings | **License**

Import the license file

Check "ivyr.funelas@" for an email titled "CloudBacko License Info" and import the attached License File to here

✓ License key imported successfully

- Click **Save** to store the settings.

Settings

- Proxy
- Email Report
- License**
- Authentication
- Mobile Backup

License

License Key bc03-9a78-41-****_*****

[Change License Key](#)

Mode Online

Version CloudBacko™ Pro v5 Full Version

Installations	Item	Allowed	Used (This computer)
	CloudBacko Pro software	2	1 (1)
	Cloud File Backup Module	0	0 (0)
	IBM Lotus Domino Backup Module	0	0 (0)
	IBM Lotus Notes Backup Module	0	0 (0)
	Microsoft Exchange Server Back...	0	0 (0)
	Microsoft SQL Server Backup Mo...	0	0 (0)
	Microsoft Hyper-V Backup Module	0	0 (0)
	Microsoft Windows System Back...	0	0 (0)
	MySQL / MariaDB Backup Module	0	0 (0)
	Office 365 Backup Module	0	0 (0)
	Oracle Database Server Backup ...	0	0 (0)
	VMware Backup Module	0	0 (0)

Save

Cancel

7.6.4 Authentication

You can use the Authentication function to:

- Enable or disable the [“Password Lock”](#). Change the password of the “Password Lock”.
- Enable or disable the [“Two-Factor Authentication”](#).
- Add one or more device(s) registered for Two-Factor Authentication (2FA).

NOTE

Please refer to the [CloudBacko App v1 User Guide for Android and iOS](#) for the detailed step-by-step procedure.

- [Re-pair with authenticator](#).

This is used once migration is completed to re-pair with authenticator to enable the sign-in using push notification feature and disable the one in the original device.

- [Remove one or more device\(s\)](#) registered for Two-Factor Authentication (2FA).
- View details of the [“Last Successful Login”](#) for Password Lock and Two-Factor Authentication (2FA).

NOTE

- If both the "Password Lock" and Two-Factor Authentication are enabled, users will be prompted to enter the "Password Lock" first before the Two-Factor Authentication (2FA).
- For Two-Factor Authentication (2FA), you can register your mobile device on both CloudBacko app and a third-party TOTP Authenticator (e.g. Google Authenticator, Microsoft Authenticator, and LastPass Authenticator).

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

Off ☐

Last Successful Login

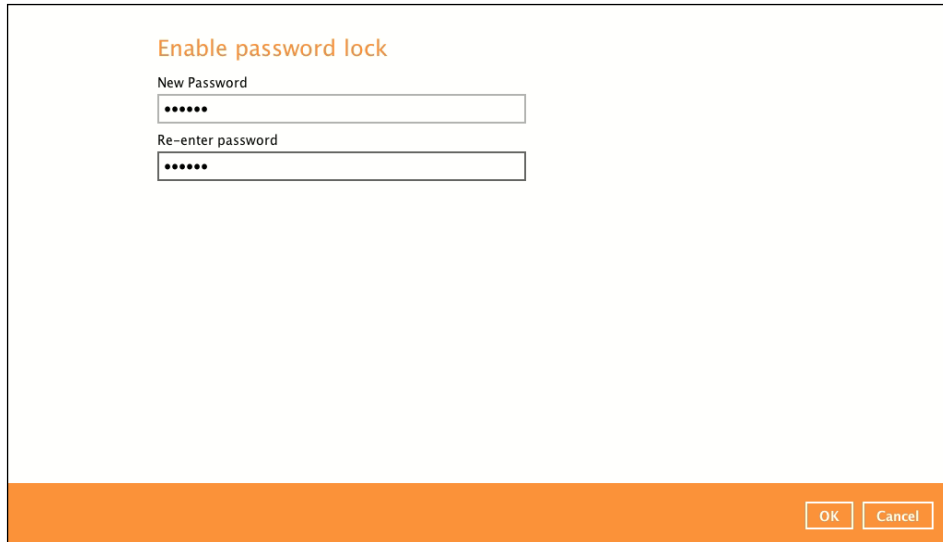
Time: 10/12/2021 11:01 (PHT)

Mobile Device: --

Password Lock

To enable the Password Lock feature, follow the instructions below:

1. Swipe the lever to the right to turn it on.
2. Enter the new password and re-enter it for authentication purposes.



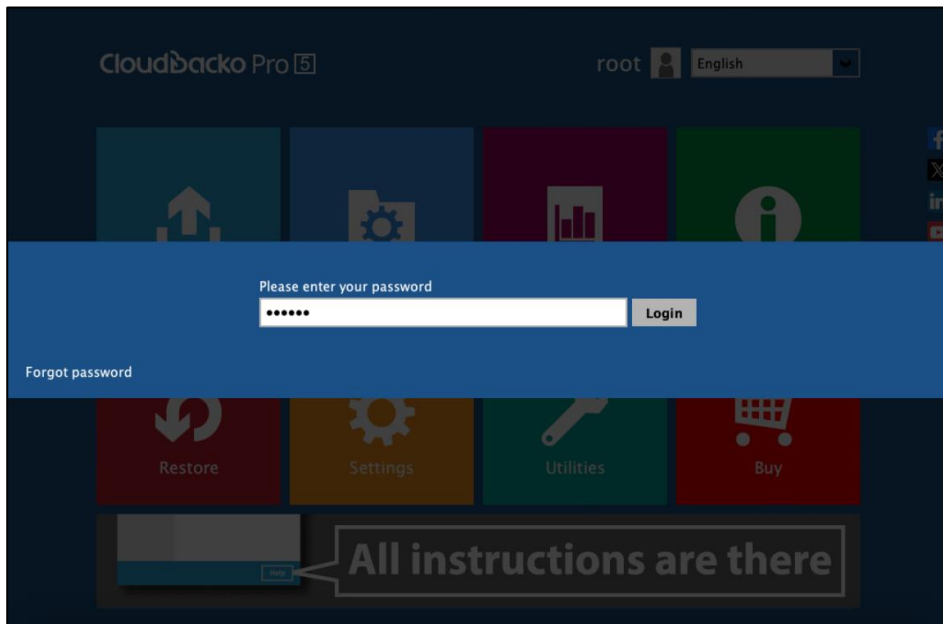
Enable password lock

New Password

Re-enter password

OK Cancel

3. Click **OK** then click **Save** button to store the settings.
4. Upon launching the CloudBacko Pro, it is required to enter the password to login.



CloudBacko Pro

root English

Please enter your password
 Login

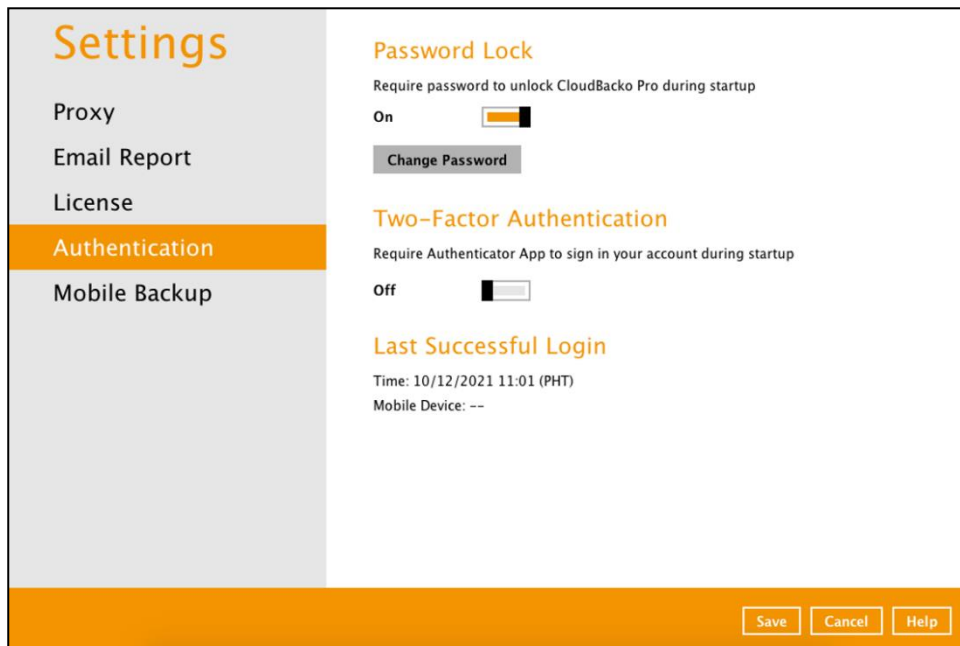
Forgot password

Restore Settings Utilities Buy

All instructions are there

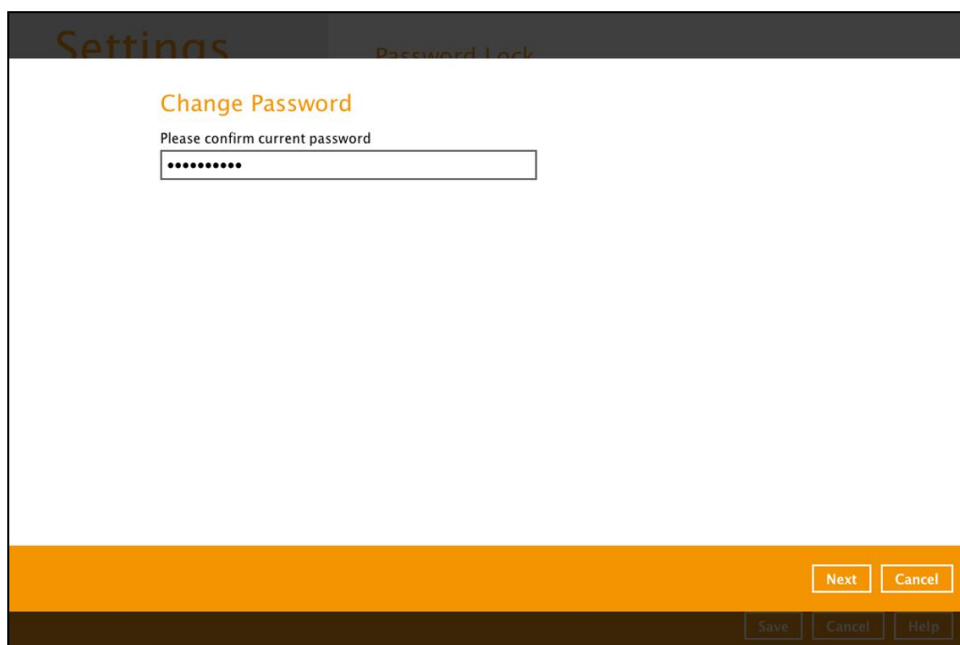
To change the password, follow the instructions below:

1. Click **Change Password**.



The screenshot shows the 'Settings' page with a sidebar on the left containing links: Proxy, Email Report, License, Authentication (highlighted in orange), and Mobile Backup. The main content area has three sections: 'Password Lock' with a toggle set to 'On' and a 'Change Password' button; 'Two-Factor Authentication' with a toggle set to 'Off'; and 'Last Successful Login' showing the time '10/12/2021 11:01 (PHT)' and 'Mobile Device: --'. At the bottom right, there are 'Save', 'Cancel', and 'Help' buttons.

2. Enter the current password.



The screenshot shows a 'Change Password' dialog box. It has a title bar with 'Settings' and 'Password Lock'. The main text says 'Change Password' and 'Please confirm current password'. Below this is a password input field filled with dots. At the bottom right, there are 'Next', 'Cancel', 'Save', 'Cancel', and 'Help' buttons.

3. Enter the new password and re-enter it for authentication purposes. Click **OK** to return to main screen.

Settings **Password Lock**

Change Password

New Password

Re-enter password

OK **Cancel**

Save **Cancel** **Help**

4. Click **Save** to store the settings.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

On ☒

Change Password

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

Off ☐

Last Successful Login

Time: 10/12/2021 11:01 (PHT)
 Mobile Device: --

Save **Cancel** **Help**

To disable the Password Lock feature, follow the instructions below:

1. Swipe the lever to the left to turn it off.

The screenshot shows the 'Settings' page with a sidebar on the left containing 'Proxy', 'Email Report', 'License', 'Authentication' (highlighted), and 'Mobile Backup'. The main content area has three sections: 'Password Lock' with a toggle switch set to 'On' and a 'Change Password' button; 'Two-Factor Authentication' with a toggle switch set to 'Off'; and 'Last Successful Login' showing 'Time: 10/12/2021 11:01 (PHT)' and 'Mobile Device: --'. At the bottom right, there are 'Save', 'Cancel', and 'Help' buttons.

2. Enter the current password for authentication purposes.

The screenshot shows a dialog box titled 'Disable password lock' with the instruction 'Please confirm current password'. Below this is a password input field with seven dots. At the bottom right of the dialog, there are 'OK' and 'Cancel' buttons. The background shows the 'Settings' page with the 'Password Lock' section highlighted.

3. Click **OK** then click the **Save** button to store the settings.

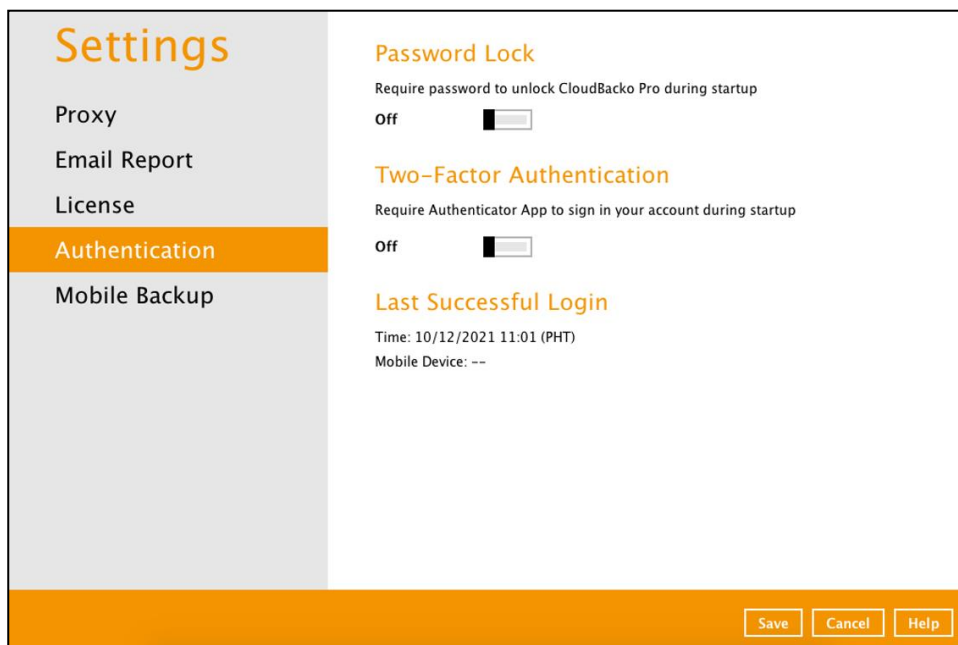
Two-Factor Authentication

To enable the two-factor authentication feature and add a mobile device, follow the instructions below:

NOTE

The CloudBacko app or a third-party **TOTP Authenticator** is needed for 2FA.

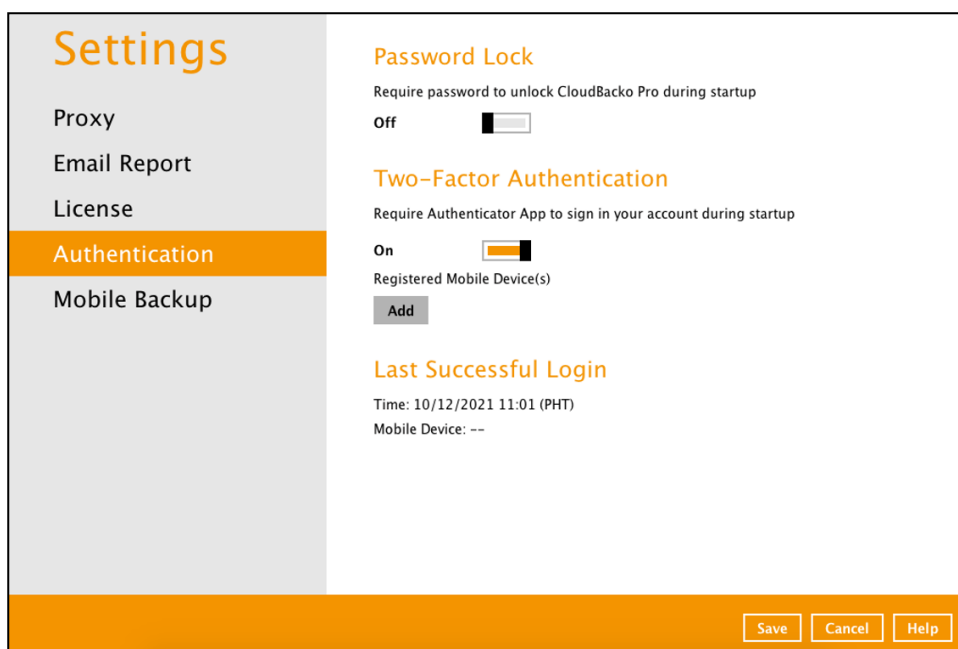
1. Go to **Settings > Authentication > Two-Factor Authentication**.



The screenshot shows the 'Settings' page with a sidebar on the left containing 'Proxy', 'Email Report', 'License', 'Authentication' (highlighted in orange), and 'Mobile Backup'. The main content area has three sections: 'Password Lock' with a toggle set to 'Off', 'Two-Factor Authentication' with a toggle set to 'Off', and 'Last Successful Login' showing 'Time: 10/12/2021 11:01 (PHT)' and 'Mobile Device: --'. At the bottom right are 'Save', 'Cancel', and 'Help' buttons.

2. Swipe lever to the right to turn it on. Click **Add**.

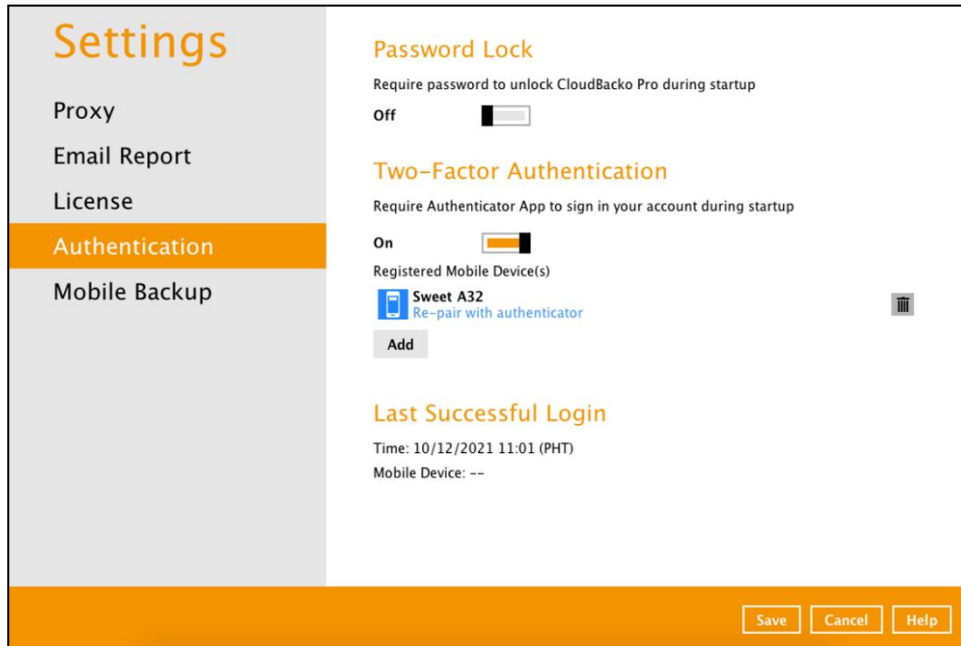
For the detailed step-by-step procedure on how to add a mobile device, please refer to [CloudBacko App v1 User Guide for Android and iOS](#).



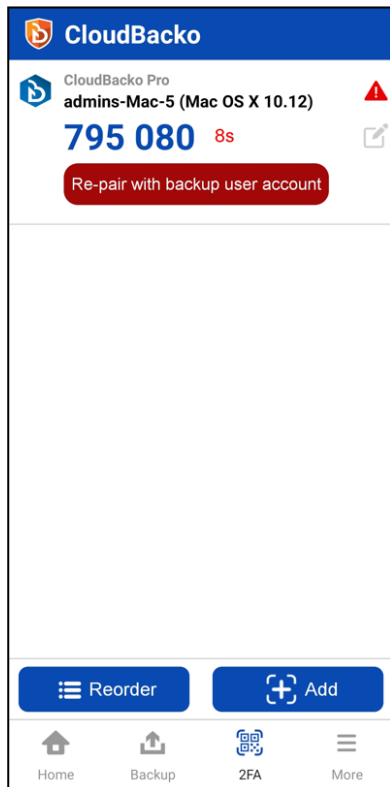
This screenshot is similar to the previous one, but the 'Two-Factor Authentication' toggle is now set to 'On'. Below the toggle, there is a label 'Registered Mobile Device(s)' and an 'Add' button. The 'Last Successful Login' section remains the same. The 'Save', 'Cancel', and 'Help' buttons are still at the bottom right.

To re-pair the authenticator, follow the instructions below:

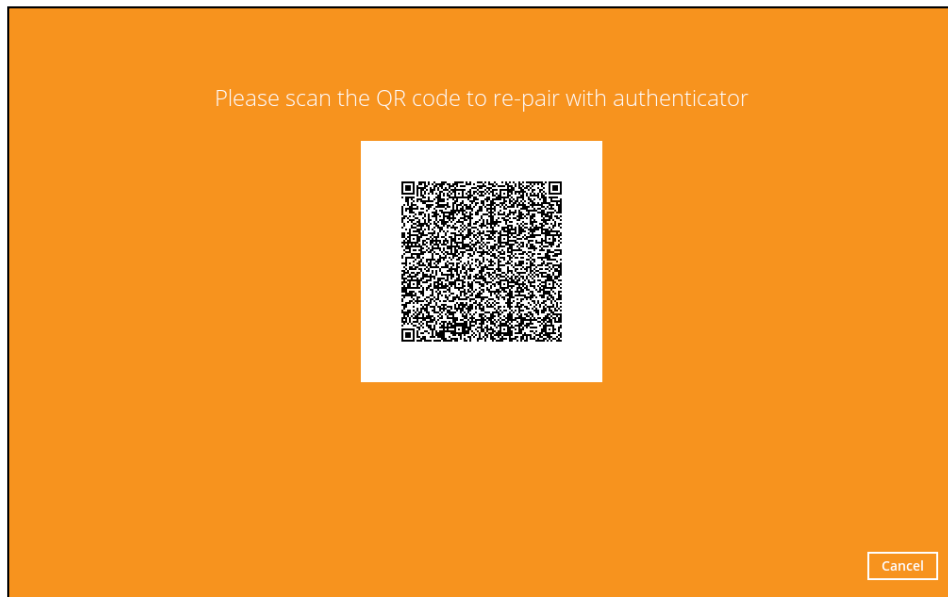
1. Go to **Settings > Authentication > Two-Factor Authentication**. Click [Re-pair with authenticator](#).



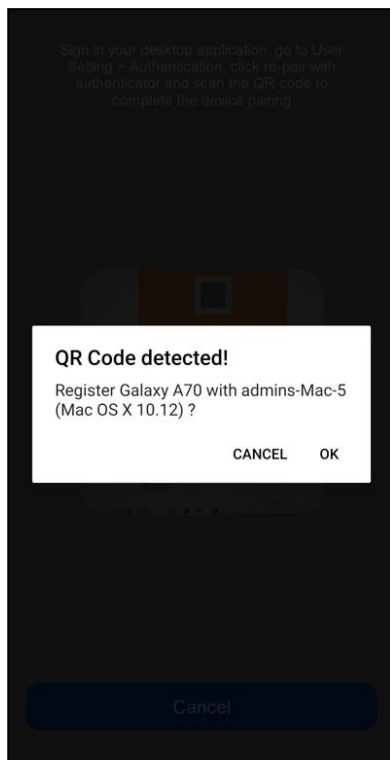
2. In the CloudBacko app, go to 2FA then tap **Re-pair with backup user account**.



3. Scan the QR Code to re-pair with authenticator.



4. QR Code is detected, tap **OK** to proceed.



5. The migrated 2FA account has been successfully re-paired.



- The original device will be changed by the replacement device.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

On ☒

Registered Mobile Device(s)

Galaxy A70
[Re-pair with authenticator](#)

Add

Last Successful Login

Time: 10/12/2021 11:01 (PHT)

Mobile Device: --

Save

Cancel

Help

To remove a mobile device, follow the instructions below:

- Click the button on the right side of the registered mobile device.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

On ☒

Registered Mobile Device(s)

Galaxy A70
[Re-pair with authenticator](#)

Sweet A32
[Re-pair with authenticator](#)

Add

Last Successful Login

Time: 10/12/2021 11:01 (PHT)

Mobile Device: --

Save

Cancel

Help

2. A confirmation message will appear, click **Yes** to proceed. Otherwise, click **No**.

The screenshot shows the 'Settings' page with a sidebar containing 'Proxy', 'Email Report', 'License', 'Authentication', and 'Mobile Backup'. The 'Authentication' section is highlighted. The main content area shows 'Password Lock' (Off) and 'Two-Factor Authentication' (On). A confirmation dialog is displayed in the center: 'Are you sure you want to delete the registered Mobile Device for Two-Factor Authentication feature?'. Below the dialog is a 'Last Successful Login' section showing 'Time: 10/12/2021 11:01 (PHT)' and 'Mobile Device: --'. At the bottom right are 'Save', 'Cancel', and 'Help' buttons.

3. Mobile device is successfully removed.

The screenshot shows the 'Settings' page with the 'Authentication' section highlighted in the sidebar. The 'Two-Factor Authentication' switch is now 'On'. Below the switch, the 'Registered Mobile Device(s)' section is empty, with a 'Re-pair with authenticator' link and an 'Add' button. The 'Last Successful Login' section remains the same. At the bottom right are 'Save', 'Cancel', and 'Help' buttons.

To disable the two-factor authentication feature, follow the instructions below:

NOTE

Sliding the switch to right hand side will only turn off the two-factor authentication but it will not automatically delete the registered mobile device(s) for Two-Factor Authentication. If you need to delete the registered mobile device(s), this must be done manually first before disabling Two-Factor Authentication

1. Swipe the lever to the left to turn it off.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

On ☒

Registered Mobile Device(s)

Galaxy A70
[Re-pair with authenticator](#)

Add

Last Successful Login

Time: 10/12/2021 11:01 (PHT)

Mobile Device: --

Save Cancel Help

2. Click **Save** to save the settings.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

Off ☐

Last Successful Login

Time: 10/12/2021 11:01 (PHT)

Mobile Device: --

Save Cancel Help

Last Successful Login

Displays the Date, Time, Time zone the user last logged in and the registered mobile device.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup


Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

On ☒

Registered Mobile Device(s)

 Galaxy A70
[Re-pair with authenticator](#)

[Add](#)

Last Successful Login

Time: 10/12/2021 18:00 (PHT)

Mobile Device: Galaxy A70

[Save](#)
[Cancel](#)
[Help](#)

Below is the screenshot if there is no login record yet.

Settings

- Proxy
- Email Report
- License
- Authentication**
- Mobile Backup

Password Lock

Require password to unlock CloudBacko Pro during startup

Off ☐

Two-Factor Authentication

Require Authenticator App to sign in your account during startup

Off ☐

Last Successful Login

No login record

[Save](#)
[Cancel](#)
[Help](#)

7.6.5 Mobile Backup

You can use the Mobile backup function to:

- Add one or more device(s) registered for Mobile Backup.

NOTE

Please refer to the [CloudBacko App v1 User Guide for Android and iOS](#) for the detailed step-by-step procedure.

- [View backed up photos, videos and documents saved in the mobile backup destination.](#)
- Change your mobile backup destination to:
 - [new location in the same local machine](#)
 - [new machine](#)
- [Remove one or more device\(s\)](#) registered for Mobile Backup.

• J

Settings

- Proxy
- Email Report
- License
- Authentication
- Mobile Backup**

Mobile Backup


Registered Mobile Device(s)

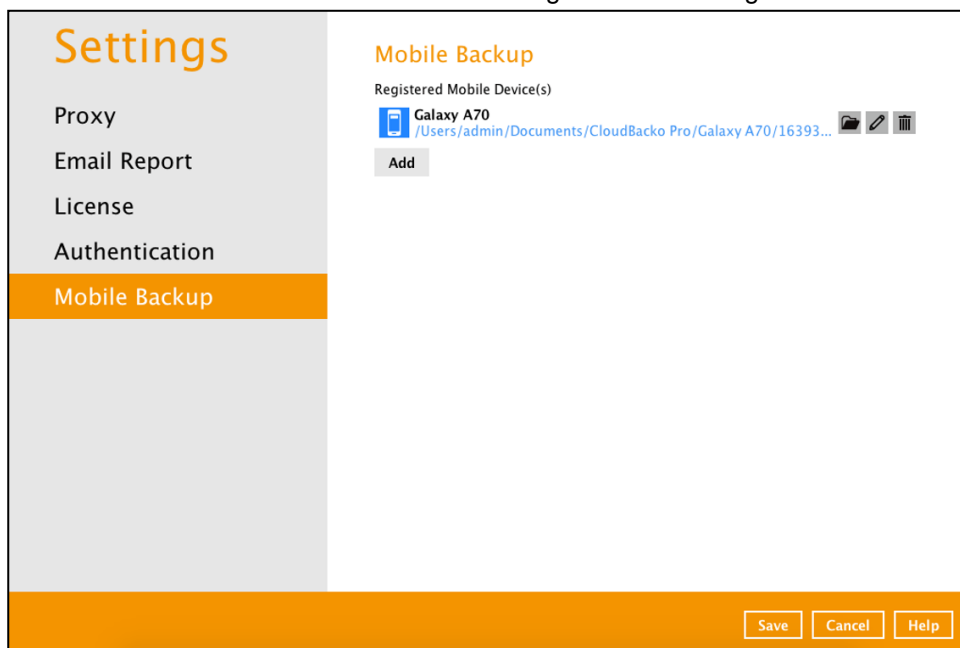
[Add](#)

[Save](#)
[Cancel](#)
[Help](#)

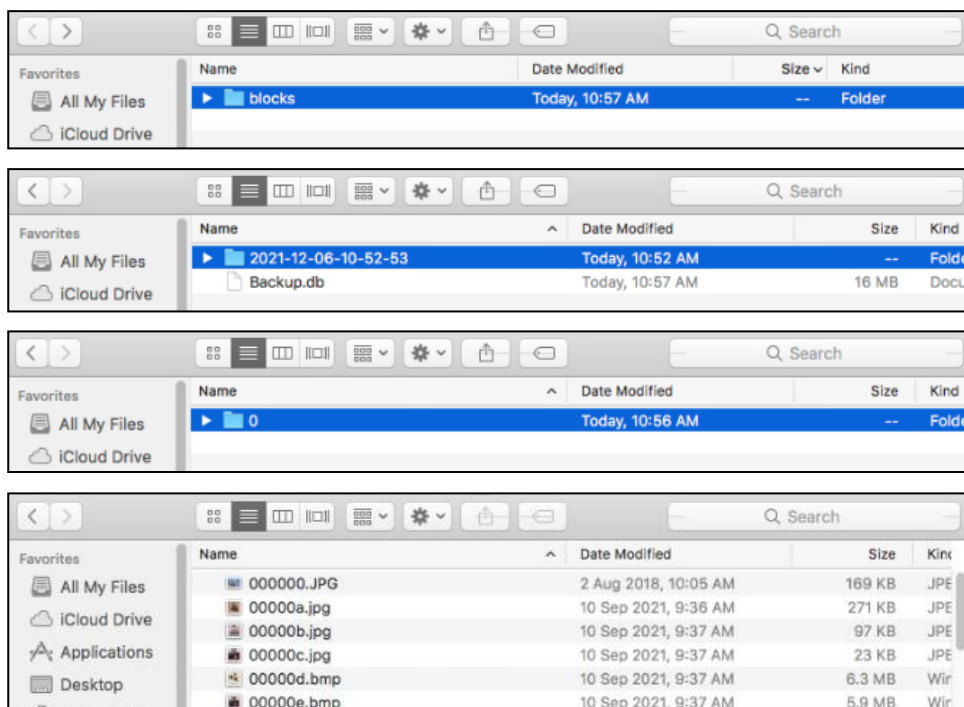
View backed up photos and videos saved in the mobile backup destination

To view backed up photos and videos saved in the mobile backup destination, follow the instructions below:

1. Click the **link** or the **Browse**  icon on the right side of the registered mobile device.



2. A new window will be displayed. Double-click the **blocks** folder, then double-click the folder named with the “YYYY-MM-DD-hh-mm-ss” format which is the date and time of the backup. This contains the folders where the photos and videos are saved.



3. Once done, click the **X** button to exit.

Change mobile backup destination location to new location in the same machine

These are scenarios upon changing the mobile backup destination to a new location in the same local machine:

- **Move to a new location in the same machine with enabled Free up space.**

If Free up space is enabled on the CloudBacko Mobile app, it is required to copy the previously backed-up photos, videos, documents and 2FA accounts to the new location to prevent missing data upon restore.

In case the previously backed-up photos, videos, documents and 2FA accounts were not copied to the new location, even though the backup will re-upload all the photos, videos, documents and 2FA accounts again from the mobile device, this will not include the photos, videos, documents and 2FA accounts removed by the Free up space feature.

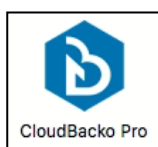
- **Move to a new location in the same machine with disabled Free up space.**


If Free up space is disabled on the CloudBacko Mobile app, there are two (2) options available, copy the previously backed-up photos, videos, documents and 2FA accounts to the new location or continue to backup in the new location.

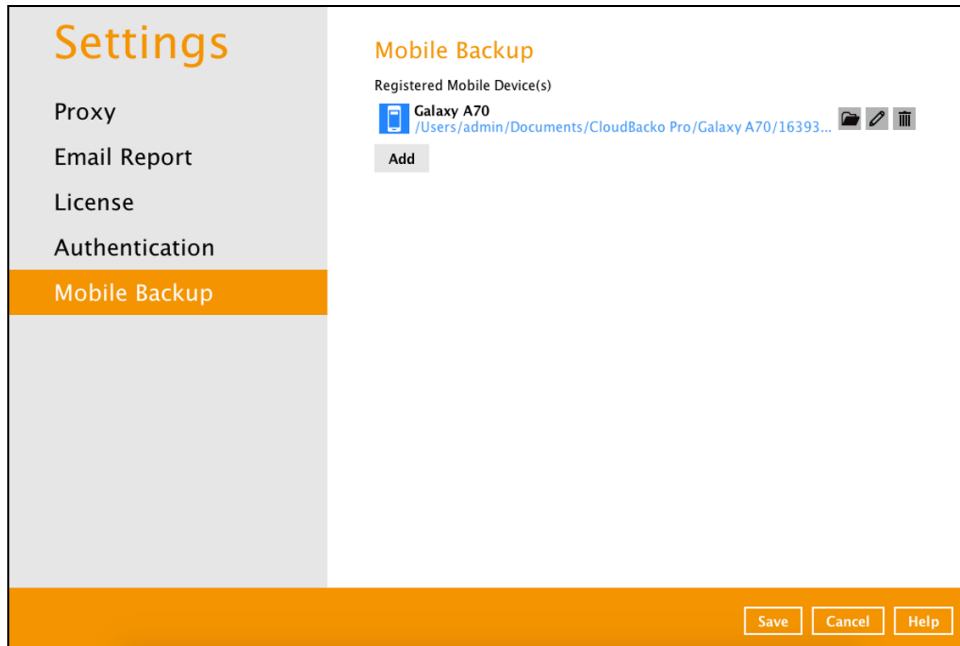
In case the previously backed-up photos, videos, documents and 2FA accounts were not copied to the new location, the backup will re-upload all the photos, videos, documents and 2FA accounts again from the mobile device.

To change the mobile backup destination to another drive or folder on the CloudBacko machine, follow the instructions below:

1. From the old location, secure a copy of the previously backed-up photos, videos, documents and 2FA accounts. Skip this step if Free up space is disabled and proceed to Step 2.
2. Launch **CloudBacko Pro**.

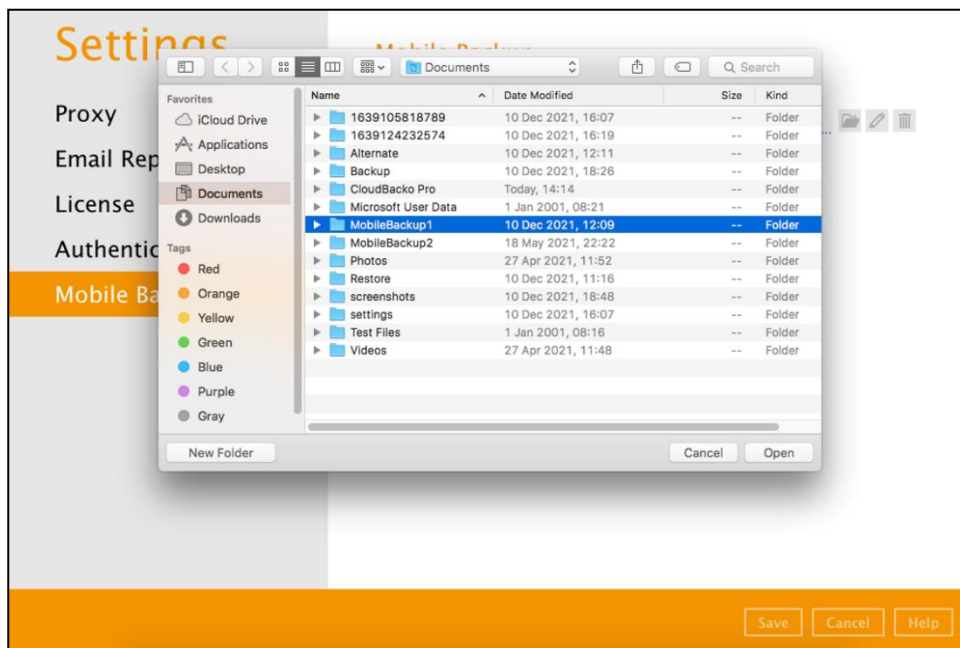


- Go to **Settings > Mobile Backup**. Click the **Edit**  icon on the right side of the registered mobile device.



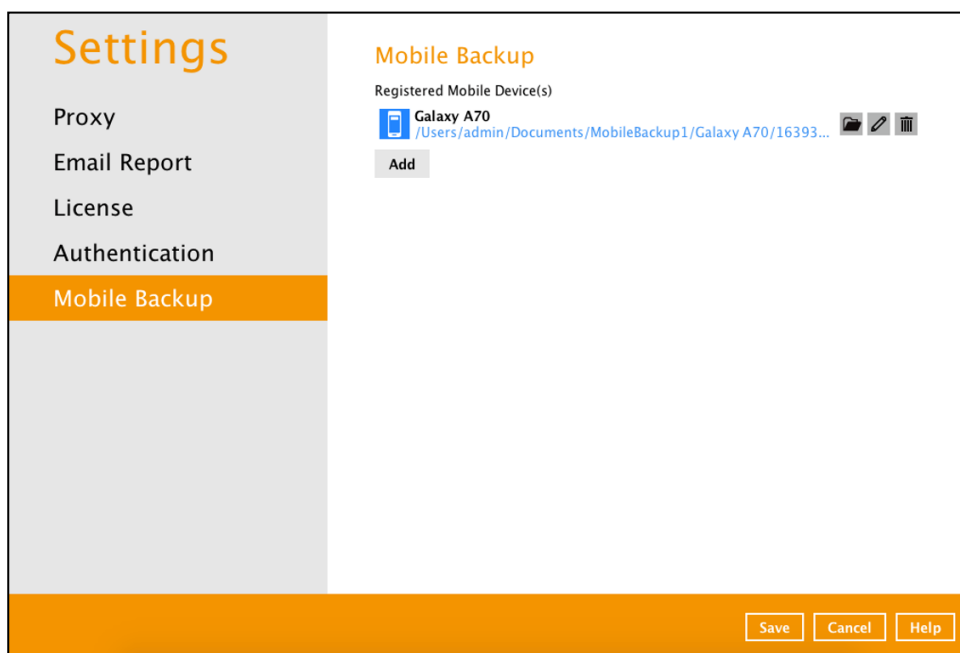
- Select a new mobile backup destination then click **Open**.

In this example, the new mobile backup destination will be **/Users/admin/Documents/MobileBackup1**.



5. Click **Save** to store the change made. Otherwise, click **Cancel**.

Mobile backup destination is successfully changed to
/Users/admin/Documents/MobileBackup1.



NOTE

The registered mobile device and backup set ID will be appended automatically to the new mobile backup destination.

6. Copy the previously backed-up photos, videos, documents and 2FA accounts from the original location in the new mobile backup destination.

Change mobile backup destination location to new machine

Move to a new machine with enabled or disabled Free up space due to upgrade.

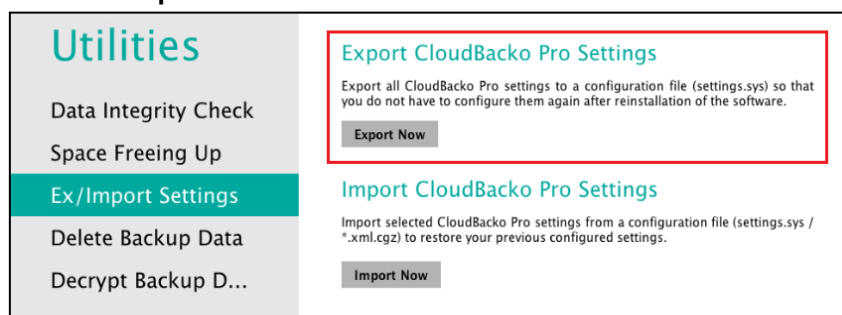
If the machine needs upgrading, the previously backed-up photos, videos, documents and 2FA accounts are still available. Also note that if Free up space is enabled on the CloudBacko Mobile app, it is required to copy the previously backed-up photos, video, documents s and 2FA accounts to the new machine to prevent missing data upon restore.

Even if Free up space is disabled, it is recommended to copy the previously backed-up photos, videos, documents and 2FA accounts to the new machine otherwise the photos, videos, documents and 2FA accounts on the mobile device will be backed-up again from scratch.

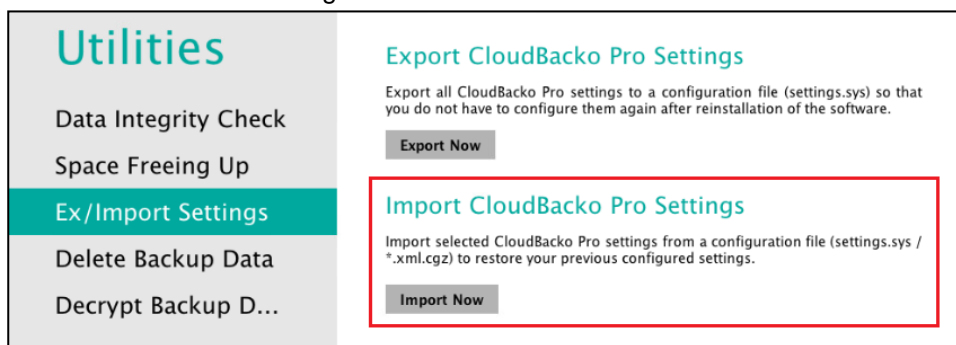
To change the mobile backup destination to a new machine, follow the instructions below:

1. From the old machine,
 - secure a copy of the previously backed-up photos, videos, documents and 2FA account.

- save a copy of the configuration file by going to **Utilities > Ex/Import Setting** then click **Export Now**. Select the destination where the file will be saved.



2. On the new machine, install **CloudBacko Pro**.
3. Apply the CloudBacko license key to the new installation.
4. Copy the configuration file (settings.sys) from the old machine to the new machine. Import it by going to **Utilities > Ex/Import Setting** then click **Import Now**. Select the destination where the configuration file was saved.




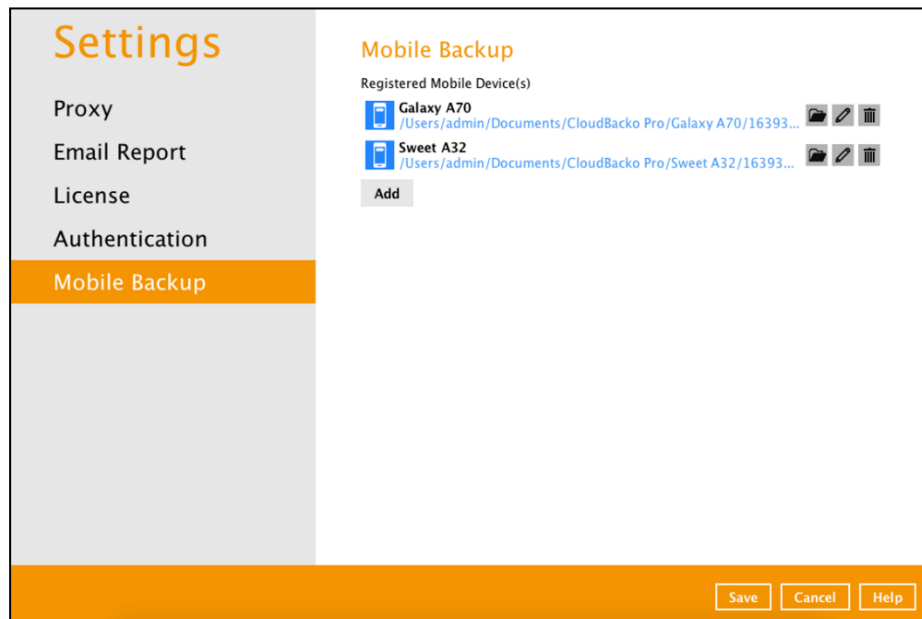
5. If the mobile backup destination needs to be updated, please follow the steps on [how to change mobile backup destination to a new location in the same local machine](#). Otherwise, skip this step and proceed to step 6.
6. Copy the previously backed-up photos, videos and 2FA accounts from the old machine to the new mobile destination.
7. Restart the **CloudBacko Pro Services** on the newly installed CloudBacko Pro to restart the MBS.
8. Start backup of photos, videos, documents and 2FA accounts.



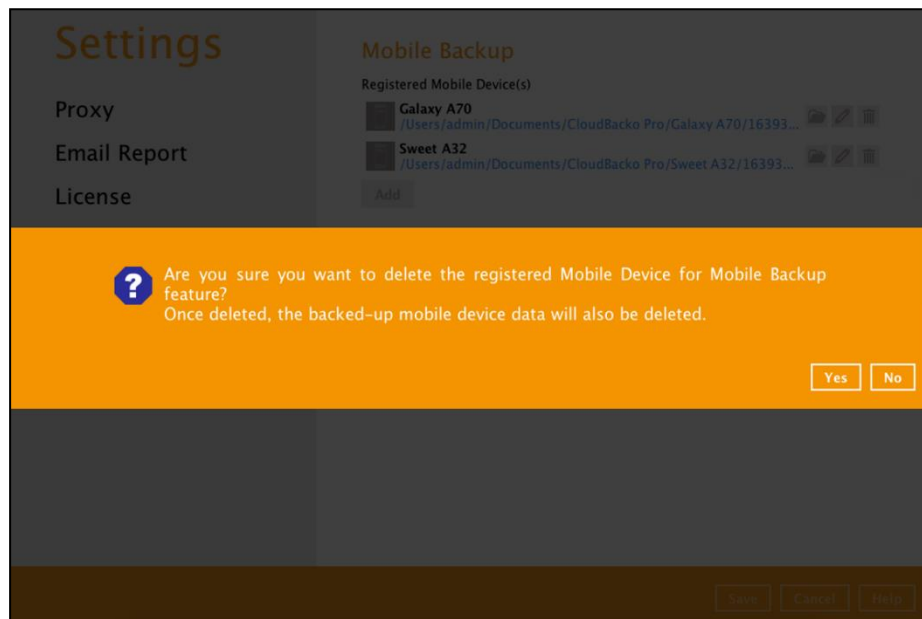
Remove one or more device(s) registered for Mobile Backup

To remove a mobile device, follow the instructions below:

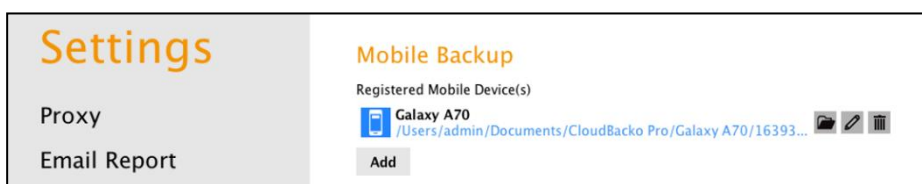
1. Click **Delete**  icon on the right side of the registered mobile device.



2. A confirmation message will appear, click **Yes** to proceed. Otherwise, click **No**.

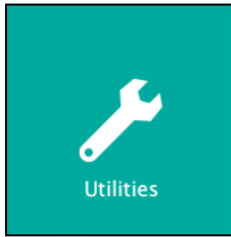


3. Mobile device is successfully removed along with any photos, videos, documents and 2FA accounts backed up in the mobile backup destination.



7.7 Utilities

This feature allows user to perform **quality check** of the index file and backed up data, **free up storage space**, **export and import** settings, **delete**, and **decrypt** backed-up data.



There are five (5) options available for this feature:

- [Data Integrity Check](#)
- [Space Freeing Up](#)
- [Ex/Import Settings](#)
- [Delete Backup Data](#)
- [Decrypt Backup Data](#)

7.7.1 Data Integrity Check

The Data Integrity Check (DIC) is used to identify the data in the backup set that has index-related issues, remove any corrupted file(s) from the backup destination(s) to ensure the integrity of the backup data and its restorability, and update the storage statistics.

For an efficient management of overall storage size of the backup destination(s), the data integrity check job will perform check for the backup destination(s) to remove old index files that are more than ninety (90) days old in the backup job folder(s).

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability

Select a backup set

All

☐ Run Cyclic Redundancy Check (CRC) during data integrity check
☐ Rebuild index
☐ Empty all files in recycle bin

Start

Close

NOTE

1. Data Integrity Check CANNOT fix or repair files that are already corrupted.
2. Data Integrity Check can only be started if there is NO active backup or restore job(s) running on the backup set selected for the DIC job. As the **backup**, **restore** and **data integrity check** are using the same index for read and write operations. Otherwise, an error message will be displayed in the post-DIC to indicate the data integrity check is completed with error(s) and that the data integrity check had skipped a backup set with an active backup job.

▶ **Run Cyclic Redundancy Check (CRC)**

When this option is enabled, the DIC will perform check on the integrity of the files on the backup destination(s) against the checksum file generated at the time of the backup job. If there is a discrepancy, this indicates that the files on the backup destination(s) are corrupted.

These corrupted files will be removed from the backup destination(s). If these files still exist on the client machine on the next backup job, the CloudBacko Pro will upload the latest copy. However, if the corrupted files are in retention area, they will not be backed up again as the source file has already been deleted from the client machine.

The time required to complete a data integrity check depends on the number of factors such as:

- ◉ number of files and/or folders in the backup set(s)
- ◉ bandwidth available on the client computer
- ◉ hardware specifications of the client computer such as, the disk I/O and CPU performance

NOTE

1. For user(s) with metered internet connection, additional data charges may be incurred if the Cyclic Redundancy Check (CRC) is enabled. As CRC data involves downloading the data from the backup destination(s) to the client machine in order to perform this check.
2. To find out how much data is downloaded from the backup destination(s) for the CRC check, please refer the value for Utilities in the [Data Transfer Statistics](#) on [Ch. 7.5.3](#).

▶ **Rebuild Index**

When this option is enabled, the data integrity check will start rebuilding corrupted index and/or broken data blocks if there are any.

▶ **Empty all files in recycle bin**

When this option is enabled, all the files in the Recycle Bin will be deleted.

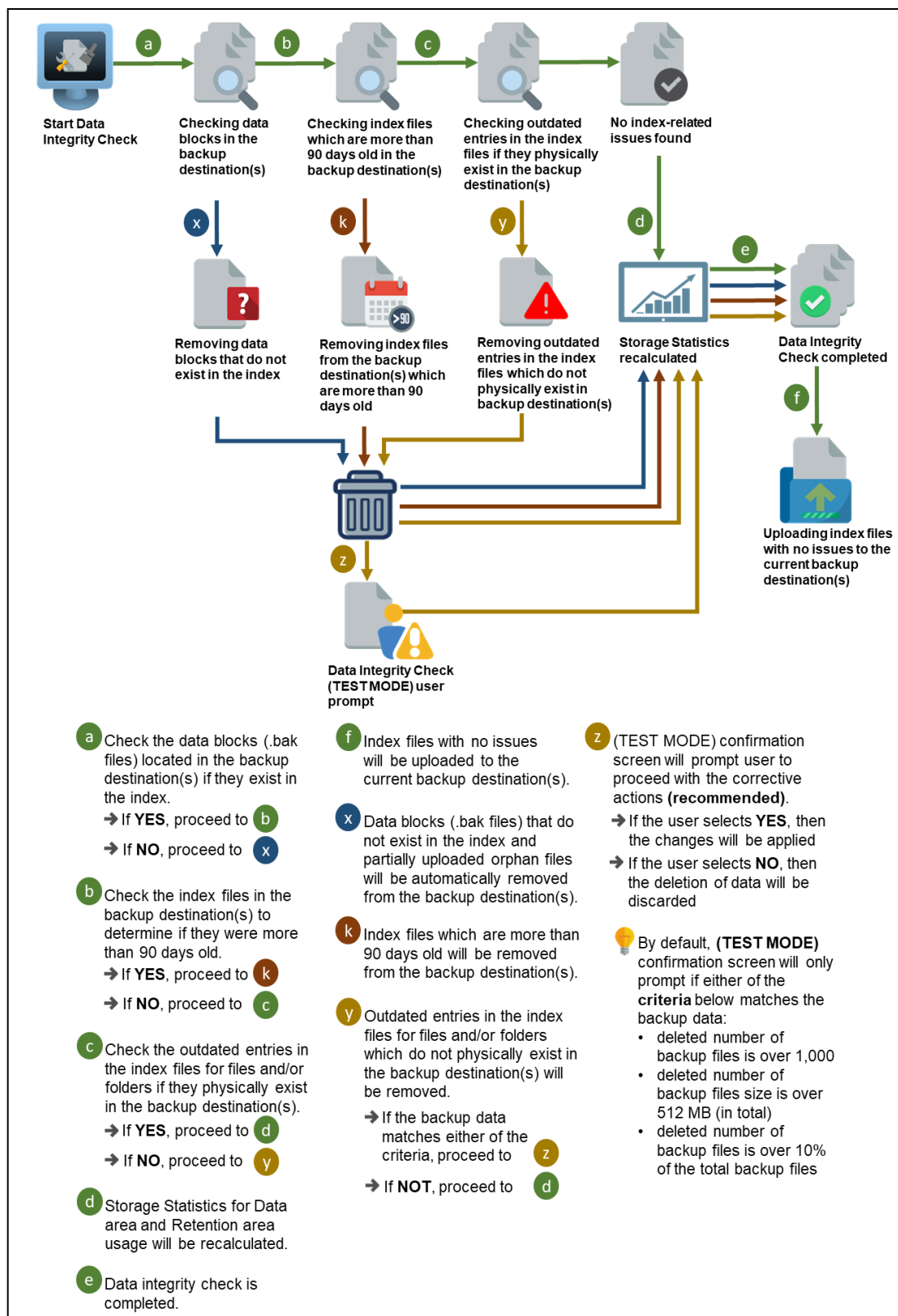
There are four (4) options in performing the Data Integrity Check:

Option 1 <input type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check <input type="checkbox"/> Rebuild index <input type="checkbox"/> Empty all files in recycle bin <input type="button" value="Start"/>	For checking of index and data.
Option 2 <input checked="" type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check <input type="checkbox"/> Rebuild index <input type="checkbox"/> Empty all files in recycle bin <input type="button" value="Start"/>	For checking of index and integrity of files against the checksum file generated at the time of the backup job.
Option 3 <input type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check <input checked="" type="checkbox"/> Rebuild index <input type="checkbox"/> Empty all files in recycle bin <input type="button" value="Start"/>	For checking and rebuilding of index.
Option 4 <input checked="" type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check <input checked="" type="checkbox"/> Rebuild index <input type="checkbox"/> Empty all files in recycle bin <input type="button" value="Start"/>	For checking of index, integrity of files against the checksum file generated at the time of the backup job and rebuilding of index.

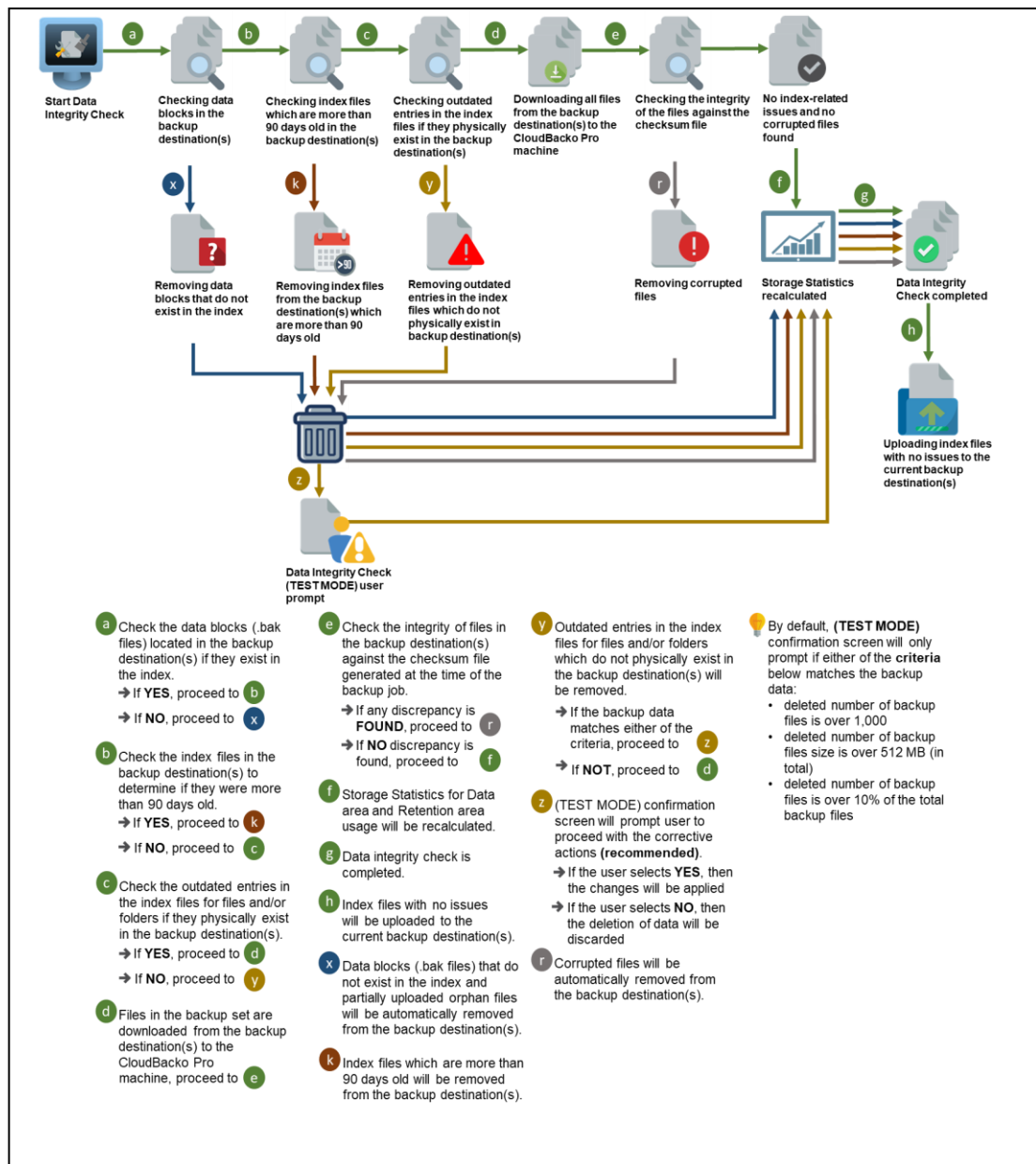
The following diagrams show the detailed process of the Data Integrity Check (DIC) in four (4) modes:

- **Option 1**
Disabled Run Cyclic Redundancy Check (CRC) and Rebuild index (Default mode)
- **Option 2**
Enabled Run Cyclic Redundancy Check (CRC) and Disabled Rebuild index
- **Option 3**
Disabled Run Cyclic Redundancy Check (CRC) and Enabled Rebuild index
- **Option 4**
Enabled Run Cyclic Redundancy Check (CRC) and Rebuild index

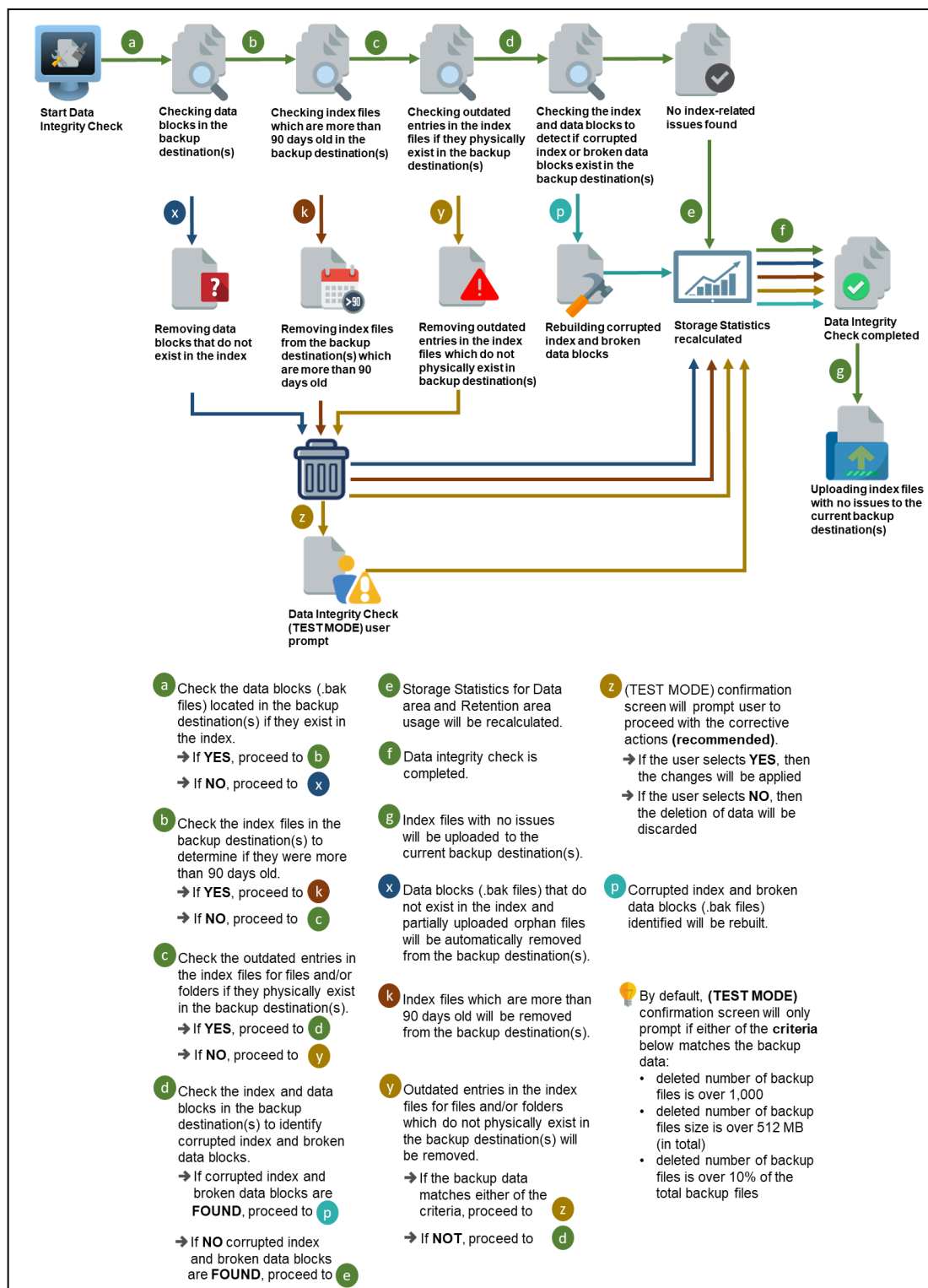
Option 1: Disabled Data Integrity Check (DIC) Process with Run Cyclic Redundancy Check (CRC) and Rebuild Index (Default mode)



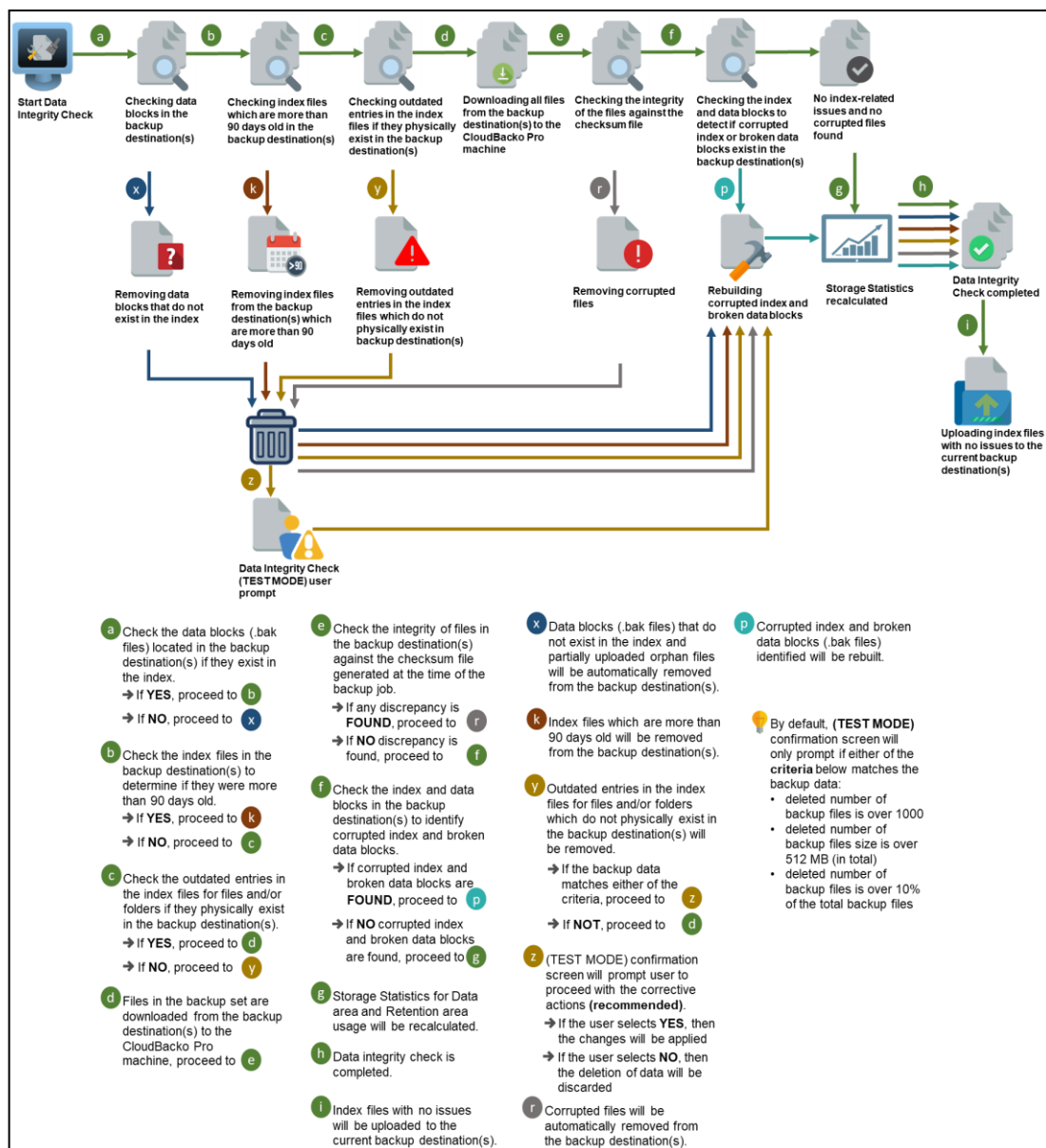
Option 2: Enabled Data Integrity Check (DIC) Process with Run Cyclic Redundancy Check (CRC) and Disabled Rebuild Index



Option 3: Disabled Data Integrity Check (DIC) Process with Run Cyclic Redundancy Check (CRC) and Enabled Rebuild Index



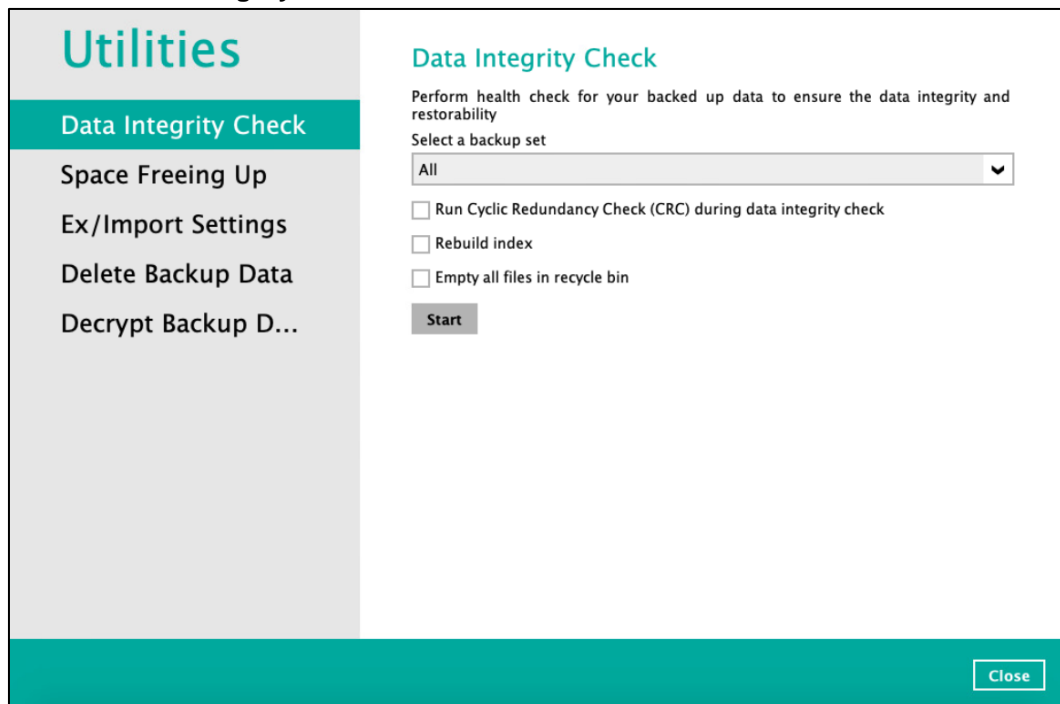
Option 4: Enabled Data Integrity Check (DIC) Process with Run Cyclic Redundancy Check (CRC) and Rebuild Index



Perform a Data Integrity Check

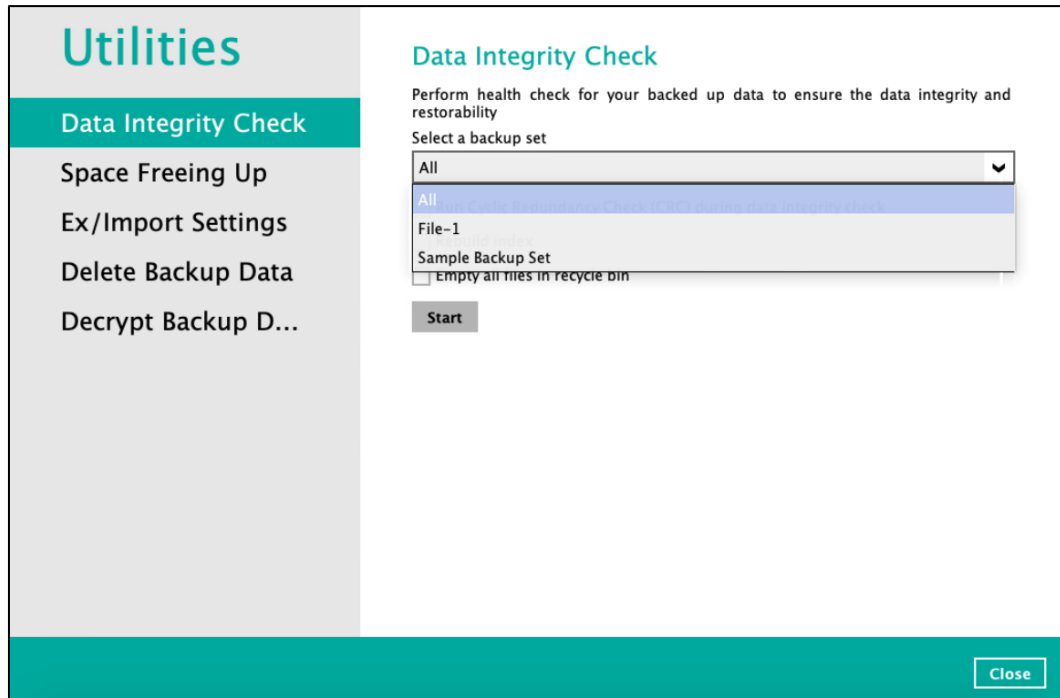
To perform a Data Integrity Check, follow the instructions below:

1. Go to the **Data Integrity Check** tab in the Utilities menu.



The screenshot shows the CloudBacko Utilities interface. On the left, a sidebar menu lists several options: 'Data Integrity Check' (highlighted in teal), 'Space Freeing Up', 'Ex/Import Settings', 'Delete Backup Data', and 'Decrypt Backup D...'. The main content area is titled 'Data Integrity Check' and contains the following text: 'Perform health check for your backed up data to ensure the data integrity and restorability'. Below this is a dropdown menu labeled 'Select a backup set' with 'All' selected. There are three checkboxes: 'Run Cyclic Redundancy Check (CRC) during data integrity check', 'Rebuild index', and 'Empty all files in recycle bin'. A 'Start' button is located below the checkboxes. A 'Close' button is in the bottom right corner of the main content area.

2. Click the drop-down button to select a backup set.



This screenshot is identical to the previous one, but the 'Select a backup set' dropdown menu is open, showing a list of options: 'All' (highlighted), 'File-1', and 'Sample Backup Set'. The 'Start' button and 'Close' button remain visible.

- Click the drop-down button to select a backup destination.

Utilities

Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability

Select a backup set

Sample Backup Set

Select a destination

All

All

Local-1 (/Users/admin/Desktop)

☐ Run Cyclic Redundancy Check (CRC) during data integrity check

☐ Rebuild index

☐ Empty all files in recycle bin

Start

Close

- Click the **Start** button to begin the Data Integrity Check.
- Data Integrity Check will start running on the selected backup set(s) and backup destination(s).

Utilities

Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability

Select a backup set

Sample Backup Set

Select a destination

All

☐ Run Cyclic Redundancy Check (CRC) during data integrity check

☐ Rebuild index

☐ Empty all files in recycle bin

⌚ Pending

Stop

Close

- Once the DIC is complete, click the **View log** button to check the detailed process of the data integrity check.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability

Select a backup set

Sample Backup Set

Select a destination

All

☐ Run Cyclic Redundancy Check (CRC) during data integrity check
☐ Rebuild index
☐ Empty all files in recycle bin
☒ Data Integrity Check is completed successfully

View log

Close

- The detailed data integrity check log will be displayed.

Utilities

Data Integrity Check

Log 05/16/2024 13:11

Show All

Type	Log	Time
i	Start data integrity check on backup set "Sample Backup Set(1715835443365)", "Local-1(1715835479715)", crc disa...	05/16/2024 13:11:44
i	Start processing data integrity check on backup set= "Sample Backup Set" destination= "Local-1"	05/16/2024 13:11:50
i	Direct download index /Users/admin/.cbp/tmp/1715835443365/Local@1715835479715/index/index.db	05/16/2024 13:11:52
i	Skip download index since local index "/Users/admin/.cbp/tmp/1715835443365/Local@1715835479715/index/ind...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000.bak", size = 33374900, lastModifiedTi...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000001.bak", size = 33343109, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000002.bak", size = 33383709, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000003.bak", size = 33423464, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000004.bak", size = 3336987, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000005.bak", size = 15175717, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000001.bak", size = 16839395, lastModifiedTi...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000002.bak", size = 17072290, lastModifiedTi...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003.bak", size = 33374925, lastModifiedTi...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000001.bak", size = 33340457, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000002.bak", size = 33385028, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000003.bak", size = 33479962, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000004.bak", size = 33293563, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000005.bak", size = 15139516, lastM...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000004.bak", size = 17231508, lastModifiedTi...	05/16/2024 13:11:52
i	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000005.bak", size = 22785815, lastModifiedTi...	05/16/2024 13:11:52

Logs per page 50

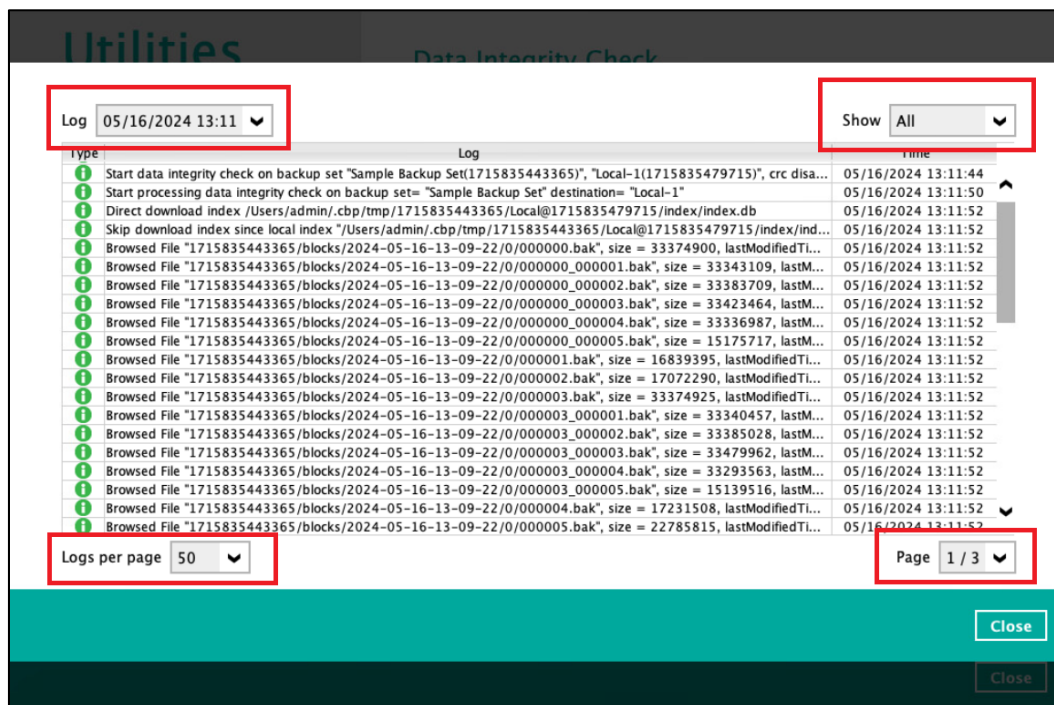
Page 1 / 3

Close

Close

For further viewing of the detailed DIC log, there are four options that can be used:

- Log filter
- Show filter
- Logs per page
- Page



Control	Screenshot	Description
Log filter		This option can be used to display logs of the previous data integrity check jobs.
Show filter		This option can be used to sort the data integrity check log by its status (i.e. All, Information, Warning, and Error). With this filter, it will be easier to sort the DIC logs by its status especially for longer data integrity check logs.
Logs per page		This option allows user to control the displayed number of logs per page.
Page		This option allows user to navigate the logs to the next page(s).

8.8.1.1 Data Integrity Check Completed with Errors

- The following screenshot is an example of a Data Integrity Check completed with error(s). A Data Integrity Check is run on a backup set with an active backup job running which resulted the Data Integrity Check to stop with error(s).

- Clicking the **View log** button will display the details of the Data Integrity Check job error(s).

Type	Log	Time
Info	Start [CloudBacko Pro v5.9.14.0]	05/16/2024 13:46:52
Info	Start data integrity check on backup set "Sample Backup Set(1715835443365)" all destination, crc disabled, rebuild inde...	05/16/2024 13:46:52
Error	Skipped Backup Set = "Sample Backup Set". Reason = "Backup job "Sample Backup Set" is still running."	05/16/2024 13:46:59
Error	Finished data integrity check with error on backup set "Sample Backup Set(1715835443365)" all destination, crc disabled...	05/16/2024 13:46:59
Info	Completed data integrity check on backup set "Sample Backup Set(1715835443365)" all destination, crc disabled, rebuild...	05/16/2024 13:46:59

7.8.1.2 Data Integrity Check Result

There are two possible outcomes after the completion of a data integrity check:

- Data Integrity Check is completed successfully with no data corruption/issues detected
- Corrupted data (e.g. index files, checksum files and/or broken data blocks) has been detected

The screenshot below shows an example of a data integrity check log with NO data corruption/issues detected.

Utilities
Data Integrity Check

Log 05/16/2024 13:11 Show All

Type	Log	Time
1	Start data integrity check on backup set "Sample Backup Set(1715835443365)", "Local-1(1715835479715)", crc disa...	05/16/2024 13:11:44
1	Start processing data integrity check on backup set= "Sample Backup Set" destination= "Local-1"	05/16/2024 13:11:50
1	Direct download index /Users/admin/.cbp/tmp/1715835443365/Local@1715835479715/index/index.db	05/16/2024 13:11:52
1	Skip download index since local index "/Users/admin/.cbp/tmp/1715835443365/Local@1715835479715/index/ind...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000001.bak", size = 33374900, lastModifiedTi...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000002.bak", size = 33383709, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000003.bak", size = 33423464, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000004.bak", size = 3336987, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000000_000005.bak", size = 15175717, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000001.bak", size = 16839395, lastModifiedTi...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000002.bak", size = 17072290, lastModifiedTi...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003.bak", size = 33374925, lastModifiedTi...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000001.bak", size = 33340457, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000002.bak", size = 33385028, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000003.bak", size = 33479962, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000004.bak", size = 33293563, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000003_000005.bak", size = 15139516, lastM...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000004.bak", size = 17231508, lastModifiedTi...	05/16/2024 13:11:52
1	Browsed File "1715835443365/blocks/2024-05-16-13-09-22/0/000005.bak", size = 22785815, lastModifiedTi...	05/16/2024 13:11:52


Logs per page 50 Page 1 / 3

Close

If corrupted data is happened to be found, the (TEST MODE) confirmation screen will be displayed.

Utilities
Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability



The result of data integrity check (TEST MODE) is as follow. No actions are performed yet. Data corrupted items, checksum incorrect items and index broken data blocks will be deleted. Are you sure you want to continue?

Backup set: Sample Backup Set

Destination	Items found in index	Data corrupted items	Index broken data blocks	Statistics
Local-1	61 (688.8MB)	0 (0B)	2 (14.9KB)	Incorrect

* File count (File size)

Yes No View log

Close Help

This is to inform the user of the following details:

Backup set that contains an error

Backup Destination

Items found in index

Data corrupted items

Index broken data blocks

Statistics (i.e. Correct or Incorrect)

7.8.1.3 Test Mode Confirmation

The (TEST MODE) confirmation will ONLY prompt if either of the **criteria** below matches the backup data during the data integrity check operation:

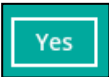
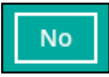

deleted number of backup files is over 1,000

deleted number of backup file size is over 512 MB (in total)

deleted number of backup files is over 10% of total backup files

Otherwise, the Data Integrity Check job will **automatically** take corrective actions.

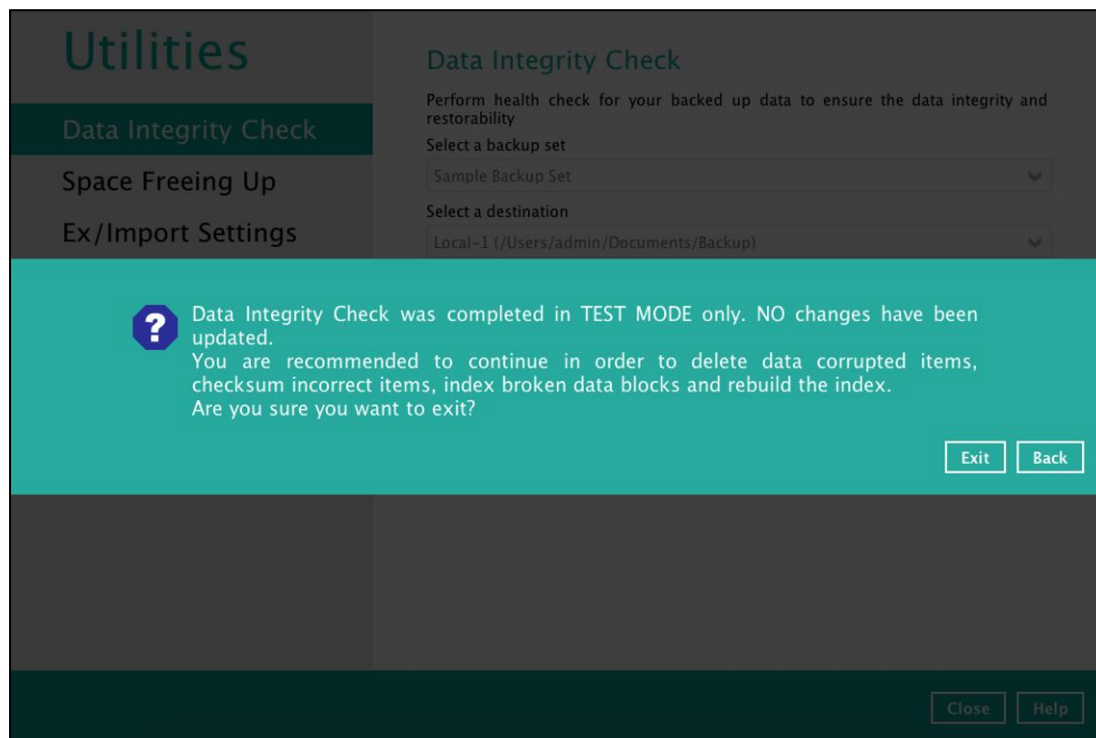
There are three options on the (TEST MODE) confirmation prompt:

Control	Screenshot	Description
Yes		Corrupted data (e.g. index files, checksum files and/or broken data blocks) will be deleted and statistics will be recalculated.
No		No action will be taken and a prompt message will be displayed.
View log		The detailed process of the data integrity check will be displayed.

Clicking No will display the following screen:

If the Exit button is clicked, the data integrity check result will be discarded.

If the Back button is clicked, it will go back to the (TEST MODE) confirmation screen.

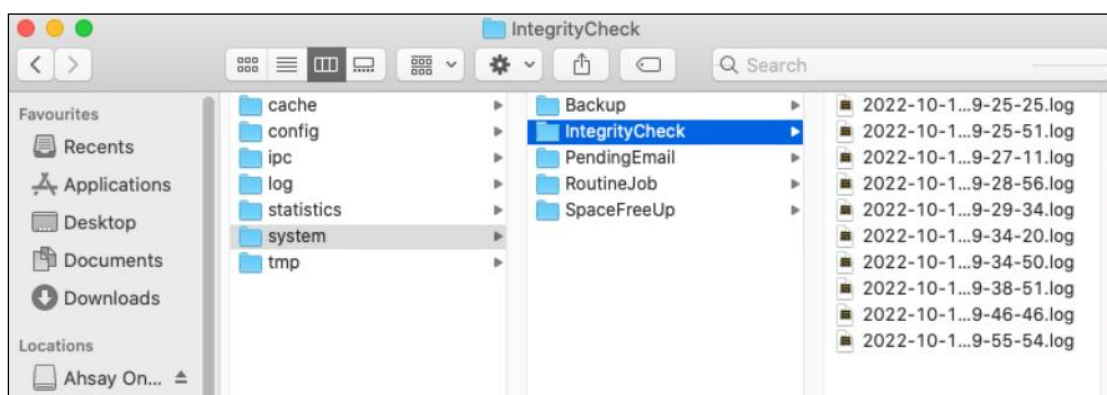


NOTES

1. It is strongly recommended to apply corrective actions when the (TEST MODE) confirmation screen pops up (clicking the **Yes** button). This is to ensure that the remaining corrupted file(s) will be removed from the backup destination(s), so on the next backup job, these files are backed up again if they are still present on the client machine. However, if the corrupted files are in retention area, then they will not be backed up again as the source file has already been deleted from the client machine.
2. If the DIC detects data blocks (.bak files) in the backup destination(s) that does not have related index entries, then these physical data blocks will be **automatically** removed from the backup destination(s) without the (TEST MODE) confirmation prompt.

Besides viewing the Data Integrity Check logs directly on the CloudBacko Pro hidden folders in macOS, they can be viewed on the file system of the CloudBacko Pro machine. For CloudBacko Pro Mac, the DIC logs are located in:

%UserProfile%/.cbp/system/IntegrityCheck



7.7.2 Space Freeing Up

This feature is used to remove obsolete file(s) from your selected backup set and destination (manually start retention policy). After the Space Freeing Up job is completed, the storage statistics of the backup set(s) are updated.

To perform deletion of backup data, follow the instructions below:

1. Select a backup set from the drop-down list.

If you select a specific backup set, you will also have to choose a specific or ALL destination.

If you select **ALL** backup sets, you will not have to choose a destination.

Utilities

- Data Integrity Check
- Space Freeing Up**
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Free Up Storage Space

To remove obsolete files from your backup destination according to your retention policy setting to free up your storage space, select backup set(s), destination(s) and then press Start.

Select a backup set

All

Start

Close Help

- Once a backup set and destination have been selected, click **Start** to perform space free up.

Utilities

- Data Integrity Check
- Space Freeing Up**
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Free Up Storage Space

To remove obsolete files from your backup destination according to your retention policy setting to free up your storage space, select backup set(s), destination(s) and then press Start.

Select a backup set

Sample Backup Set

Select a destination

Local-1 (/Users/admin/Desktop)

Start

Close Help

Space Freeing Up

- Space Freeing Up**
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Select a backup set

Sample Backup Set

Select a destination

Local-1 (/Users/admin/Desktop)

Start processing space freeing up on backup set= "Sample Backup Set (16650...

Stop

Once the space freeing up is completed, click **View Log** to see more details.

Utilities

- Data Integrity Check
- Space Freeing Up**
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Free Up Storage Space

To remove obsolete files from your backup destination according to your retention policy setting to free up your storage space, select backup set(s), destination(s) and then press Start.

Select a backup set

Sample Backup Set

Select a destination

Local-1 (/Users/admin/Documents/Backup)

✓ Space freeing up is completed successfully

View log

Close

Help

Utilities

- Data Integrity Check
- Space Freeing Up**
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Free Up Storage Space

To remove obsolete files from your backup destination according to your retention policy setting to free up your storage space, select backup set(s), destination(s) and then press Start.

Select a backup set

Sample Backup Set

Select a destination

Local-1 (/Users/admin/Desktop)

✓ Space freeing up is completed successfully

View log

Close

Help

Utilities
Free Up Storage Space

Log
12/10/2022 11:13
Show
All

Type	Log	Time
Start [CloudBacko Pro v5.4.3.5]		12/10/2022 11:13:03
Start space freeing up on backup set "Sample Backup Set(1665038009793)", "Local-1(1665038126531)"		12/10/2022 11:13:03
Start processing space freeing up on backup set= "Sample Backup Set (1665038009793)" destination= "Local-1 (166...		12/10/2022 11:13:09
Skip download index since local index "/Users/admin/.cbp/tmp/1665038009793/Local@1665038126531/index" is ...		12/10/2022 11:13:12
Deleting out of retention period recycled files...		12/10/2022 11:13:13
Delete out of retention period recycled files result - Size: 0 B, File Count: 0		12/10/2022 11:13:13
Deleting out of retention period recycled files... Completed		12/10/2022 11:13:13
Saving encrypted backup file index to 1665038009793/blocks/2022-10-12-11-13-03 at destination Local-1...		12/10/2022 11:13:13
Saving encrypted backup settings to settings/KMTMACARJAY-2022-10-12.xml at destination Local-1...		12/10/2022 11:13:13
Space freeing up on backup set= "Sample Backup Set (1665038009793)" destination= "Local-1 (1665038126531)" i...		12/10/2022 11:13:13
Finished space freeing up on backup set "Sample Backup Set(1665038009793)", "Local-1(1665038126531)"		12/10/2022 11:13:14

Logs per page
50
Page
1 / 1

Close
Help

Close

7.7.3 Ex/Import Settings

This feature is used to export and import CloudBacko Pro Settings to the **settings.sys** file, this includes information on:

- ▶ Proxy Settings
- ▶ Email Report Settings
- ▶ Software Update Settings
- ▶ Windows Event log Settings (Windows Platform Only)
- ▶ Backup Set Settings

It is strongly recommended to export a copy of the configuration file (settings.sys) whenever there are general settings changes to CloudBacko Pro, new backup sets added, or updates to existing backup sets.

WARNING!

A separate copy of the settings.sys file should be saved in another location for safe keeping. Otherwise, If the machine where the CloudBacko Pro is installed on suffers a disk or hardware failure or is stolen and a copy of the settings.sys file is not available, it will not be possible to access and recover any data backed up by CloudBacko Pro.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings**
- Delete Backup Data
- Decrypt Backup D...

Export CloudBacko Pro Settings

Export all CloudBacko Pro settings to a configuration file (settings.sys) so that you do not have to configure them again after reinstallation of the software.

Export Now

Import CloudBacko Pro Settings

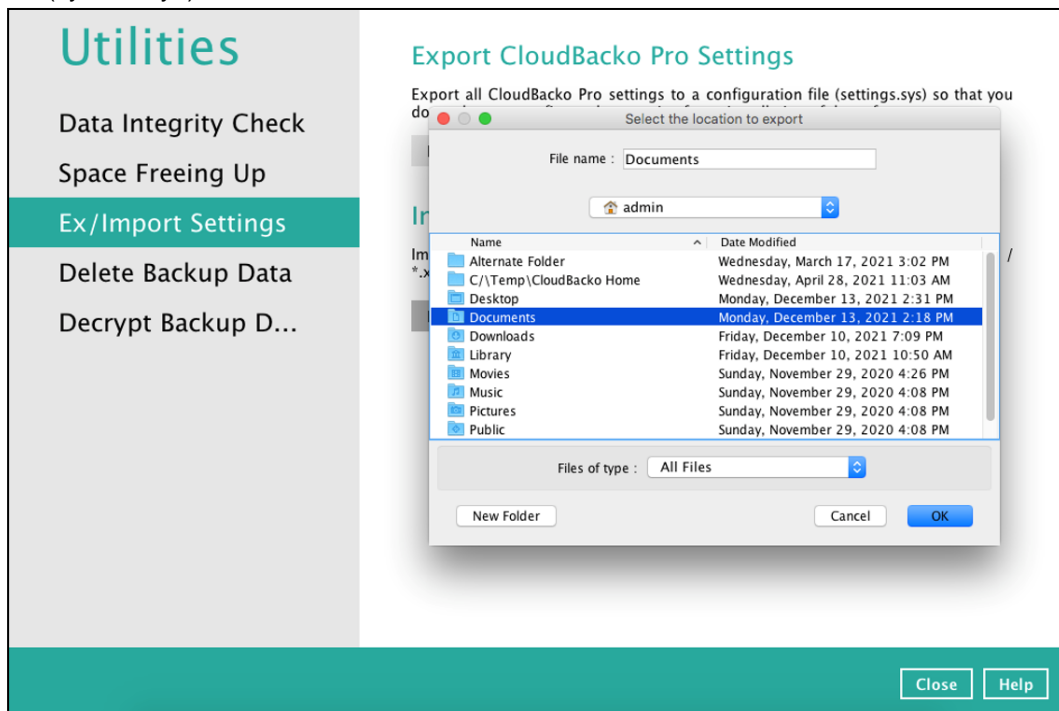
Import selected CloudBacko Pro settings from a configuration file (settings.sys / *.xml.gz) to restore your previous configured settings.

Import Now

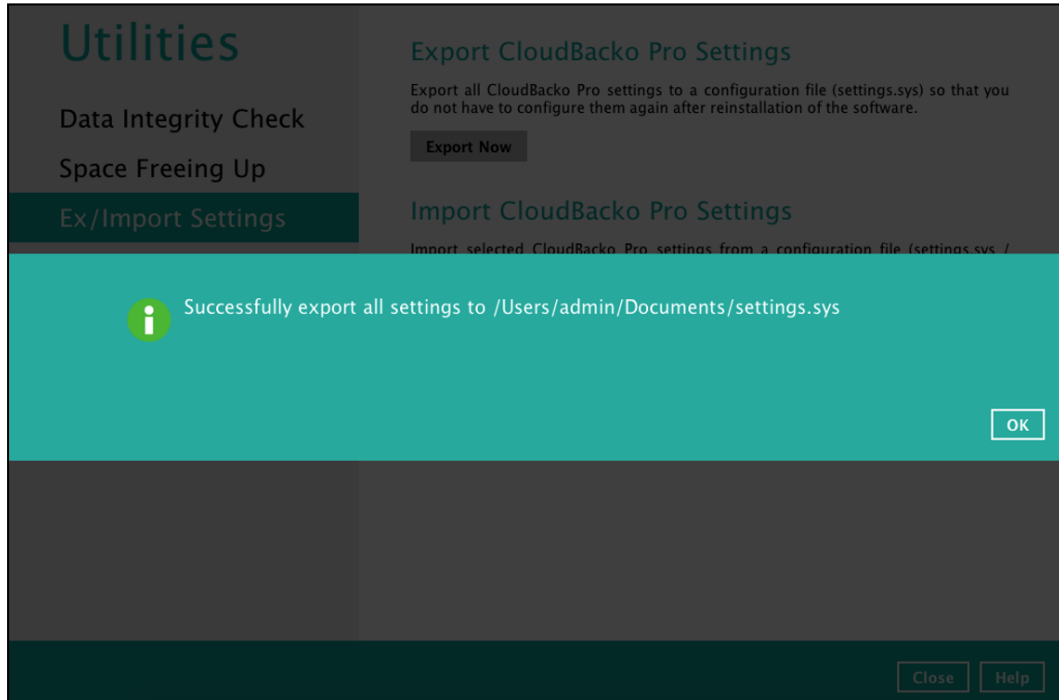
Close
Help

Export CloudBacko Pro Settings

To export, click the **Export Now** button. Select a path where the CloudBacko Pro configuration file (system.sys) will be stored then click **OK**.

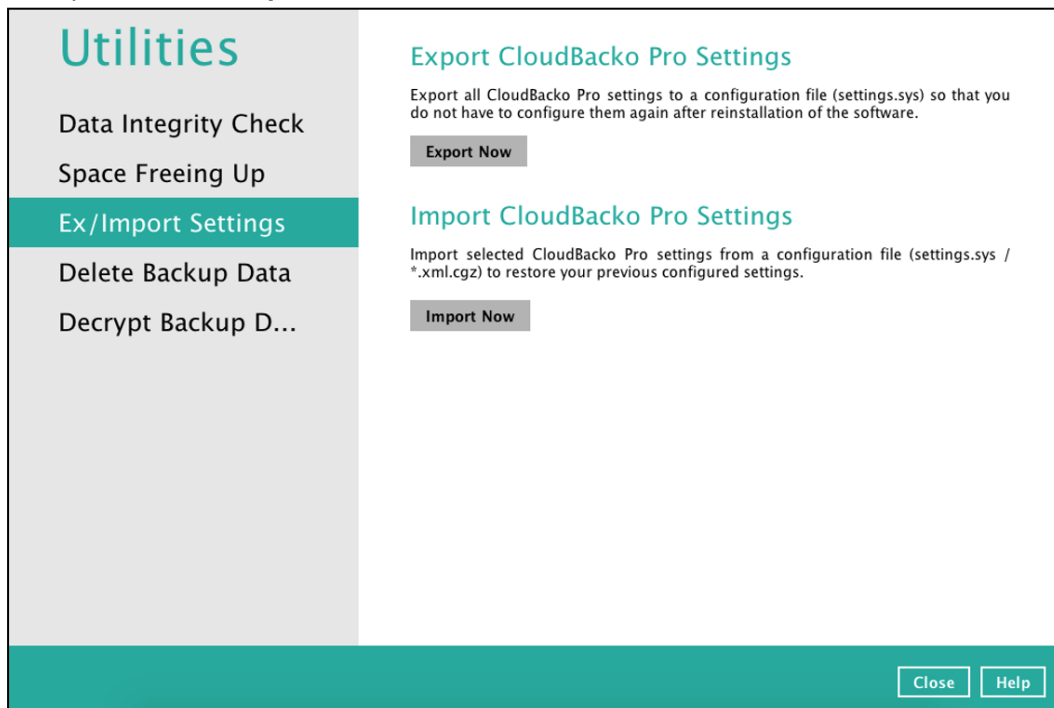


If the system.sys file is successfully exported to the preferred path, it will display a message containing the status and path of the CloudBacko Pro configuration file.

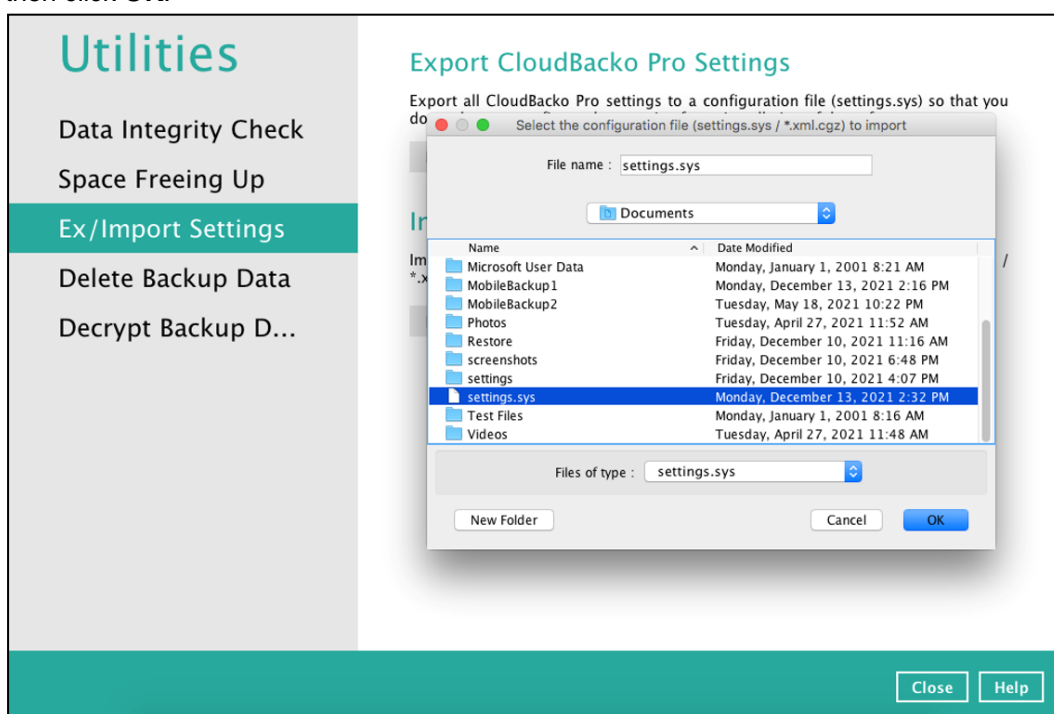


Import CloudBacko Pro Settings

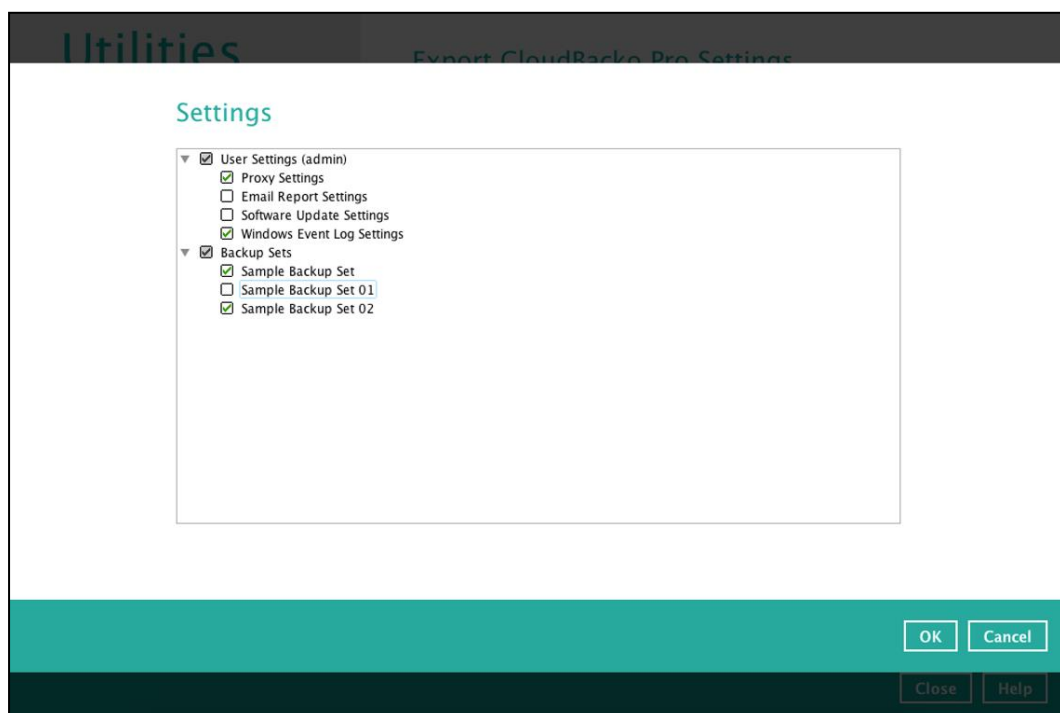
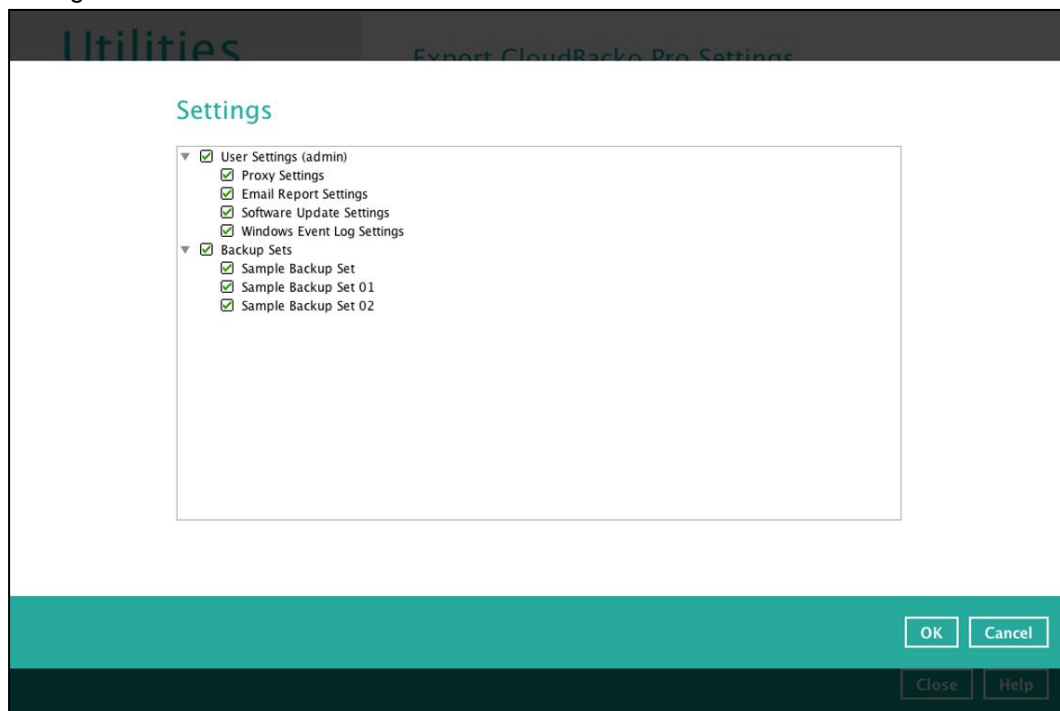
To import, click the **Import Now** button.



Select the path where the CloudBacko Pro configuration file (system.sys / .xml, .cgz) is stored then click **OK**.



It will show the following Settings: User Settings and Backup Sets. By default, all settings are included, however, there is an option to uncheck the checkboxes and choose the preferred settings.



If the system.sys / .xml, .cgz file is successfully imported, it will display a check sign besides the **Import Now** button with a successful status of imported settings.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...

Export CloudBacko Pro Settings

Export all CloudBacko Pro settings to a configuration file (settings.sys) so that you do not have to configure them again after reinstallation of the software.

Export Now

Import CloudBacko Pro Settings

Import selected CloudBacko Pro settings from a configuration file (settings.sys / *.xml.cgz) to restore your previous configured settings.

Import Now ✓ Successfully import selected settings

Close
Help

7.7.4 Delete Backup Data

This feature is used to permanently delete backed up data from a backup set(s), destination(s), backup job, or delete all backed-up data. After the data is deleted, the storage statistics of the backup set(s) are updated.

To perform deletion of backup data, follow the instructions below:

1. Select a backup set to delete from.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data**
- Decrypt Backup D...

Delete Backup Data

Delete backed up data of a specific backup set from a specific destination. This action will physically delete the selected data regardless the defined retention policy. Therefore, make sure you know what you are deleting and NO undo will be available afterward.

Select a backup set

All
Sample Backup Set
Sample Backup Set 01
Sample Backup Set 02

Close Help

NOTE

This will only delete the backed up files in a backup set(s) and destination(s), but the backup set and destination will remain.

If you select a specific backup set, you will also have to choose a specific or **ALL** destination.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data**
- Decrypt Backup D...

Delete Backup Data

Delete backed up data of a specific backup set from a specific destination. This action will physically delete the selected data regardless the defined retention policy. Therefore, make sure you know what you are deleting and NO undo will be available afterward.

Select a backup set

Sample Backup Set

Select a destination

All
Local-1 (/Users/admin/Desktop)

Close Help

If you select **ALL** backup sets, you will not have to choose a specific destination.

The screenshot shows the 'Utilities' sidebar on the left with the following items: 'Data Integrity Check', 'Space Freeing Up', 'Ex/Import Settings', 'Delete Backup Data' (highlighted in teal), and 'Decrypt Backup D...'. The main panel is titled 'Delete Backup Data' and contains the following text: 'Delete backed up data of a specific backup set from a specific destination. This action will physically delete the selected data regardless the defined retention policy. Therefore, make sure you know what you are deleting and NO undo will be available afterward.' Below this text is a dropdown menu labeled 'Select a backup set' with 'All' selected. A 'Delete' button is positioned below the dropdown. At the bottom right of the main panel are 'Close' and 'Help' buttons.

2. If you choose to delete **All** backup set(s), the following message will be displayed. By clicking **Yes**, all backed up files from the selected backup set(s) and destination(s) will be deleted.

The screenshot shows a confirmation dialog box with a teal header and a dark grey body. The header contains a question mark icon and the text 'Delete all backup set files?'. The body contains a large empty space. At the bottom right of the body are 'Yes' and 'No' buttons. A 'Close' button is located at the bottom right of the entire dialog box.

If you select a specific backup set, you will have an option to choose a destination.

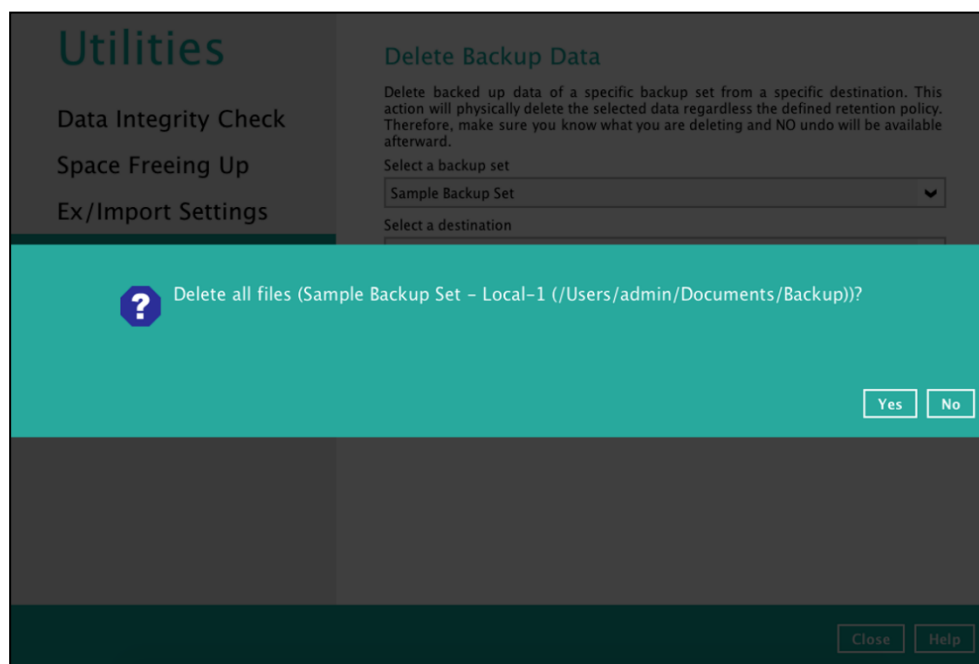
If you select **ALL** backup sets, you will not have to choose a specific destination. There are two (2) options from the type of file(s) to delete if you select a specific backup set and a specific destination:

Delete all backed-up data

Choose from ALL files

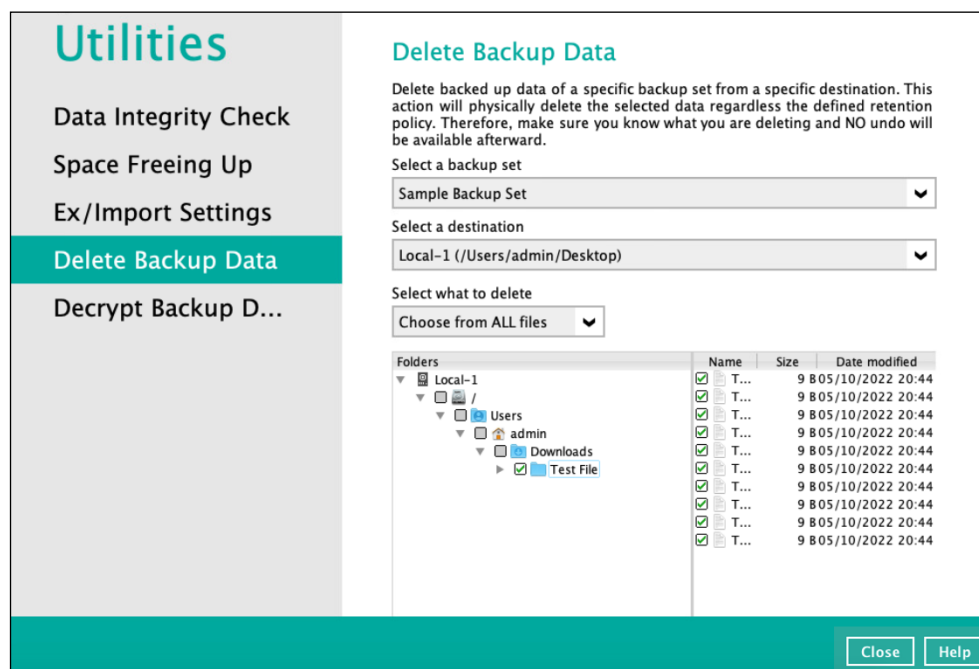
Delete all backed up data

All backed-up files from the chosen backup set and selected destination will be deleted if you choose **“Delete all backed-up data”**. Click **Yes** to confirm.



Choose from ALL files

If you select **“Choose from ALL files”**, you can select any file(s) in the backup set.



You also have the option to click the **Search** link to do an advance search.

[Search](#)

Items per page 50

Page 1 / 1

Delete

3. Click **Delete** to start the deletion of file(s).

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data**
- Decrypt Backup D...

Select a destination
Local-1 (/Users/admin/Desktop)

Select what to delete
Choose from ALL files

Folders	Name	Size	Date modified
Local-1	T...		9 8 05/10/2022 20:44
/	T...		9 8 05/10/2022 20:44
Users	T...		9 8 05/10/2022 20:44
admin	T...		9 8 05/10/2022 20:44
Downloads	T...		9 8 05/10/2022 20:44
Test File	T...		9 8 05/10/2022 20:44
	T...		9 8 05/10/2022 20:44
	T...		9 8 05/10/2022 20:44
	T...		9 8 05/10/2022 20:44
	T...		9 8 05/10/2022 20:44
	T...		9 8 05/10/2022 20:44
	T...		9 8 05/10/2022 20:44

[Search](#)
Items per page 50
Page 1 / 1

Delete

Close Help

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data**
- Decrypt Backup D...

Select a destination
Local-1 (/Users/admin/Desktop)

Select what to delete
Choose from ALL files

Folders	Name	Size	Date modified
Local-1	1...		
/	1...		
Users	1...		
admin	1...		
Downloads	1...		
temp	1...		
1655371588487	1...		
1655371930300	1...		
1655444137529	1...		
1655708800561	1...		
1655708800561	1...		
RestoreSet	R...		

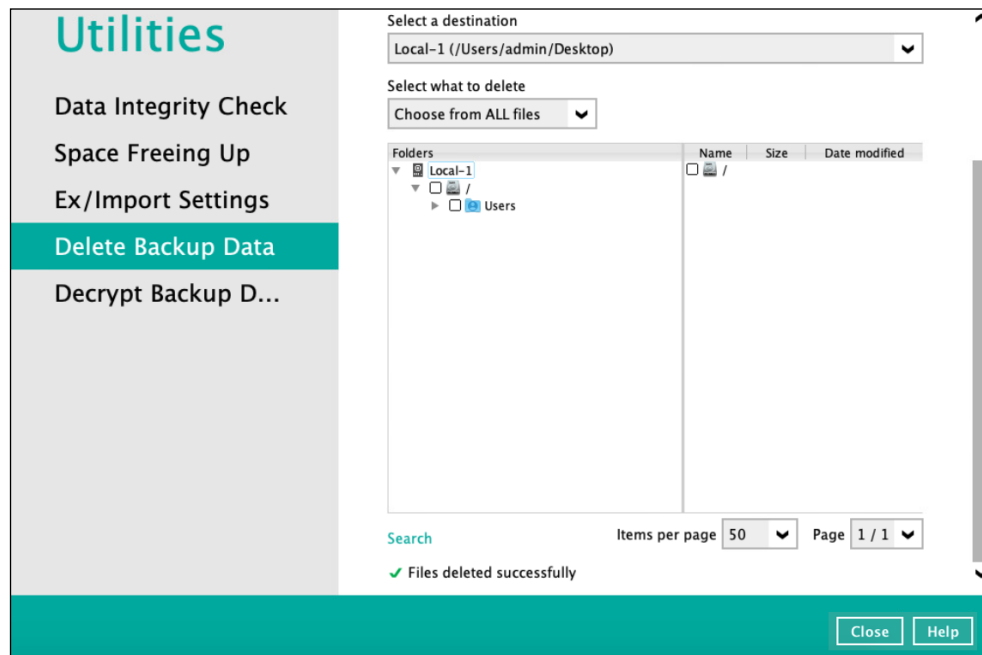
Deleting ... /Users/admin/.../2022-10-12-11-55-12/0...

[Search](#)
Items per page 50
Page 1 / 1

Deleting files

Close

4. Files deleted successfully.



7.7.5 Decrypt Backup Data

This feature is used to restore raw data by using the **data encryption key** that was set for the backup set.

To perform decryption of backup data, follow the instructions below:

1. Click the **Browse** button to locate the path of the backup set ID / blocks folder.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...**

Decrypt Backup Data

Please enter the path to the [<backup set ID>/blocks] folder which contains the backup files that you want to decrypt.

 Browse

Temporary directory for storing restore files

 Browse

Decrypt

Close

Help

2. Click the **Browse** button to re-select the temporary folder for the decrypt process. Then click the **Decrypt** button to begin.

Utilities

- Data Integrity Check
- Space Freeing Up
- Ex/Import Settings
- Delete Backup Data
- Decrypt Backup D...**

Decrypt Backup Data

Please enter the path to the [<backup set ID>/blocks] folder which contains the backup files that you want to decrypt.

 Browse

Temporary directory for storing restore files

 Browse

Decrypt

Close

Help

7.8 Buy

This feature allows customer to buy additional software license and or modules.

This feature allows,

- ▶ new customers who are evaluating the product using a trial key to purchase a license key and/or module
- ▶ existing customers to purchase additional software license and/or module

Please refer to the CloudBacko forum article for the details on the license purchase instructions:

[How to Buy CloudBacko Pro](#)



Order Details

Description	Unit Price	Qty.	Amount
CloudBacko™ Pro Basic Software	US\$99.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft Exchange Server Module	US\$115.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft SQL Server Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Oracle Database Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro IBM Lotus Domino Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro IBM Lotus Notes Module	US\$25.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro VMware Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft Hyper-V Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Windows System Module	US\$25.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Office 365 Module	US\$9.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Cloud File Module	US\$9.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro MySQL / MariaDB Module	US\$25.00	<input type="text" value="0"/>	US\$0

Coupon code

Total : US\$0

Next
Cancel

To purchase additional software license and/or modules, follow the instructions below:

1. Select the software license and/or modules by adding a number on the **Qty** field then click the **Update Total** button to show the updated cost.

If Coupon code is available, input it in the "Coupon code" field.

Order Details

Description	Unit Price	Qty.	Amount
CloudBacko™ Pro Basic Software	US\$99.00	<input type="text" value="1"/>	US\$0
CloudBacko™ Pro Microsoft Exchange Server Module	US\$115.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft SQL Server Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Oracle Database Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro IBM Lotus Domino Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro IBM Lotus Notes Module	US\$25.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro VMware Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft Hyper-V	US\$55.00	<input type="text" value="0"/>	US\$0

Coupon code
Total : US\$0

Update Total
Cancel

Click the **Next** button to proceed.

Order Details

Description	Unit Price	Qty.	Amount
CloudBacko™ Pro Basic Software	US\$99.00	<input type="text" value="1"/>	US\$99
CloudBacko™ Pro Microsoft Exchange Server Module	US\$115.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft SQL Server Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Oracle Database Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro IBM Lotus Domino Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro IBM Lotus Notes Module	US\$25.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro VMware Module	US\$55.00	<input type="text" value="0"/>	US\$0
CloudBacko™ Pro Microsoft Hyper-V	US\$55.00	<input type="text" value="0"/>	US\$0

Coupon code
Total : US\$99

Next
Cancel

2. The Payment Information screen will be displayed. Select the payment mode, Credit Card or TT (Telegraphic Transfer), by clicking the dropdown **Paid by**.

Payment Information

Paid by

Credit Card ▼

Credit Card

TT

7.8.1 Credit Card

Payment through online via a Credit Card (Visa or Mastercard is accepted) is the quickest way to purchase a software license or additional add-on modules. The only requirements are a valid Credit Card and Contact Information. Once the payment is confirmed, purchased software license or add-on modules will be available immediately.

1. Complete the following fields then click the **Next** button to proceed.

- ▶ Card type
 - VISA
 - Master Card
- ▶ Card number
- ▶ Security code
- ▶ First name
- ▶ Last name
- ▶ Expiry date

Payment Information

Paid by

Card Information

Card type

Card number

Security code

First name

Last name

Expiry date

Card type

VISA VISA

▼

VISA VISA

MasterCard Master Card

2. Complete the following fields for the Contact Information then click the **Next** button to proceed.

- ▶ Contact person
- ▶ Email for receiving receipt
- ▶ Company name (optional)
- ▶ VAT number (optional)
- ▶ Street line 1
- ▶ Street line 2 (optional)
- ▶ City
- ▶ State / Province / Territory (optional)
- ▶ Postal / Zip code (optional)
- ▶ Country

Contact Information

Contact person

Email for receiving receipt

Company name (optional)

VAT number (optional)

Address

Street line 1

Street line 2 (optional)

City

State / Province / Territory (optional)

Postal / Zip code (optional)

Country

Previous
Next
Cancel

3. In the Order Summary screen, order Items, Contact Information, and Payment Method are displayed.

Tick the “**I accept the terms and conditions of the purchase agreement**” and click the **Confirm** button to proceed with the payment.

Order Summary

Items

Description	Unit Price	Qty.	Amount
CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
Total :			US\$99

Contact Information

Contact person: [Redacted]
 Email: [Redacted]@gmail.com
 Address: Valero Street, Makati City, Philippines

Payment Method

Paid by: Credit Card
 Card type: VISA
 Card number: 4[Redacted]9 Security code: [Redacted]
 First name: [Redacted]

☒ I accept the terms and conditions of the purchase agreement.

Previous
Confirm
Cancel

4. The payment will be processed.

Order Summary

Items

Description	Unit Price	Qty.	Amount
CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
Total :			US\$99

Contact Information

Contact person: [Redacted] Processing the payment...
 Email: [Redacted]@gmail.com
 Address: Valero Street, Makati City, Philippines

Payment Method

Paid by: Credit Card
 Card type: VISA
 Card number: 4[Redacted]9 Security code: [Redacted]
 First name: [Redacted]

☒ I accept the terms and conditions of the purchase agreement.

Previous
Confirm
Cancel

If the payment is successful, an official receipt will be displayed.

Receipt



CloudBacko Corporation
28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok,
Kowloon
Hong Kong

OFFICIAL RECEIPT

Thank you for your payment. Your transaction has been completed. Below are the details of your purchase. Your order is charged in US Dollar (US\$). A copy of this receipt has been sent to your email [redacted]@gmail.com

License Key : [redacted]_****_***** (Online)

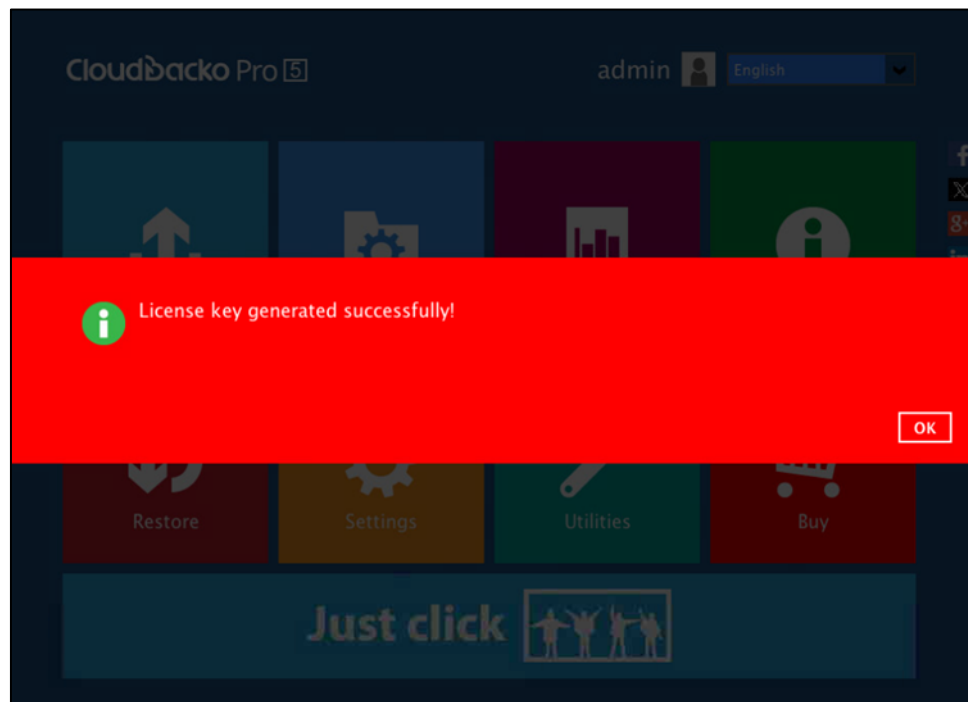
Receipt Number : CC-97831
Paid Date : 2021-12-02
Payment Method : DIS

Contact Person : [redacted]
Email : [redacted]@gmail.com
Address : Valero Street, Makati City, Philippines

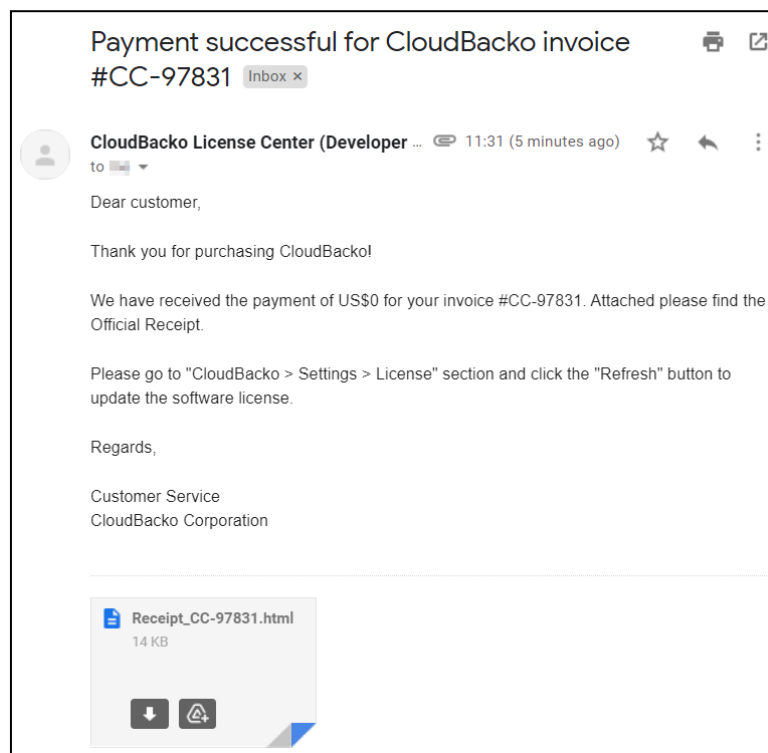
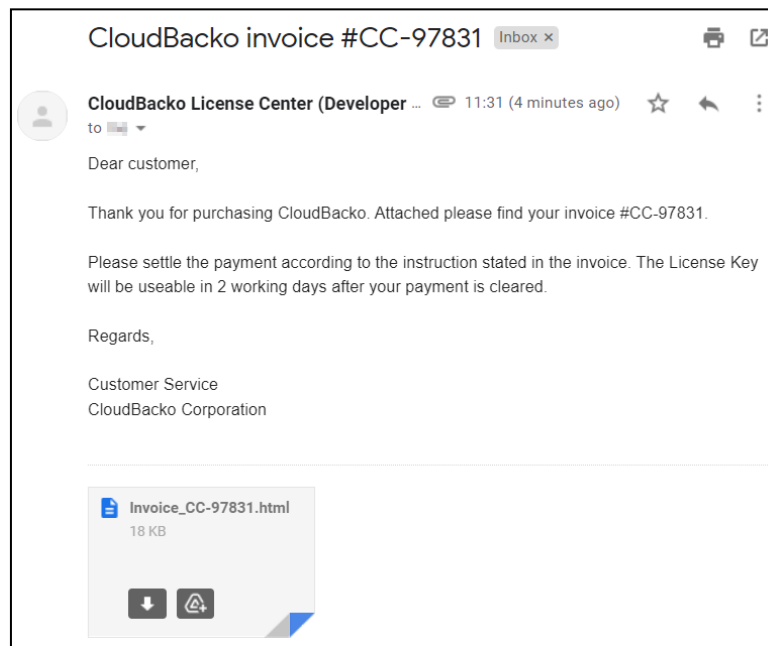
Description	Unit Price	Qty.	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
2. Fully covered coupon			Less US\$99
			Total US\$0

Print
Close

The license key on the CloudBacko Pro is now successfully applied.



These are sample emails for the copies of Invoice and Official Receipt.



Please keep the copy of your invoice as it contains half of your license key. The other half of the license key can be found on CloudBacko Pro. Both parts of the license key is required if you need to reinstall CloudBacko Pro or apply the license to another installation.

Please check this article for more information:

[Where can I find my CloudBacko Pro/Lite purchase license key?](#)

CloudBacko™			
CloudBacko Corporation 28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong			
OFFICIAL INVOICE			
License Key:		*****_****_*-a[redacted]1-[redacted]3 (Online)	
Invoice Number: CC-97831 Invoice Expiry Date: 2021-12-09 Payment Method: DIS		Contact Person: Email: [redacted]@gmail.com Company Name: Address: Valero Street, Makati City, Philippines VAT:	
Description	Unit Price	Qty	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
2. Fully covered coupon			Less US\$99
			Total : US\$0
Payment Instruction			
Please transfer the total due amount to one of the following accounts. You are responsible for all bank and finance charges. CloudBacko shall receive no less than the total due amount specified.			
Telegraphic Transfer in US Dollar (US\$)			
Bank Account Name :	CloudBacko Corporation		
Company Address :	28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong		
Bank Code :	041		
U.S. Dollars Account No. :	256-15-022973-4 (USD)		
Bank Name :	Chong Hing Bank Ltd		
Bank Address :	G/F, Chong Hing Bank Centre, 24 Des Voeux Road Central, Hong Kong		
SWIFT Code :	LCHBHKHH		
Country :	Hong Kong		
To transfer money to either of the above accounts, IBAN Nr is unnecessary. Please ensure the Bank Code and SwiftCode are quoted properly in the transfer application.			
Please specify the Invoice Number as the payment remark.			
Please pay on or before the Invoice Expiry Date.			
The License Key will be useable in 2 working days after your payment is cleared.			

The image shows a receipt and invoice from CloudBacko. At the top is the CloudBacko logo. Below it, the company name 'CloudBacko Corporation' and address '28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong' are listed. A message states: 'Thank you for your payment. Your transaction has been completed. Below are the details of your purchase. Your order is charged in US Dollar (US\$). A copy of this receipt has been sent to your email [redacted]@gmail.com'. The section is titled 'OFFICIAL RECEIPT'. Below this is a table with two rows. The first row contains 'License Key: *****_****_****_a11-c[redacted]3 (Online)'. The second row contains 'Receipt Number: CC-97831', 'Paid Date: 2021-12-02', 'Payment Method:', 'Contact Person:', 'Email: [redacted]@gmail.com', 'Company Name:', 'Address: Valero Street, Makati City, Philippines', and 'VAT:'. Below the table is a table with 4 columns: 'Description', 'Unit Price', 'Qty', and 'Amount'. It contains two rows: '1. CloudBacko™ Pro Basic Software' with 'Unit Price' US\$99.00, 'Qty' 1, and 'Amount' US\$99; and '2. Fully covered coupon' with 'Amount' 'Less US\$99'. At the bottom right, it says 'Total : US\$0'.

CloudBacko™

CloudBacko Corporation
28/F, Ford Glory Plaza, No.37 Wing Hong Street,
Lai Chi Kok, Kowloon, Hong Kong

Thank you for your payment. Your transaction has been completed. Below are the details of your purchase. Your order is charged in US Dollar (US\$). A copy of this receipt has been sent to your email [redacted]@gmail.com

OFFICIAL RECEIPT

License Key: *****_****_****_a11-c[redacted]3 (Online)	
Receipt Number: CC-97831 Paid Date: 2021-12-02 Payment Method:	Contact Person: [redacted] Email: [redacted]@gmail.com Company Name: Address: Valero Street, Makati City, Philippines VAT:

Description	Unit Price	Qty	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
2. Fully covered coupon			Less US\$99

Total : **US\$0**

However, if the payment is not successful, this prompt message will appear.

It will state the reason and four (4) options for the failed transaction:

- ▶ **Retry**
This will process the payment again.
- ▶ **Try another card**
This will redirect you to the Credit Card Information and input another Credit Card details.
- ▶ **Contact our sales**
This will redirect you to the CloudBacko website.
- ▶ **Cancel**
This will cancel the transaction and exit from the Buy module.

The screenshot shows the 'Order Summary' page with a red modal overlay indicating a payment failure. The modal contains a question mark icon, the message 'Payment failed, the reason is: General decline', and instructions to retry, try another card, contact the bank, or contact sales at sales@cloudbacko.com. Below the modal, the 'Payment Method' section is visible, showing 'Paid by: Credit Card', 'Card type: VISA', and a partially masked card number. At the bottom of the page, there are 'Previous', 'Confirm', and 'Cancel' buttons.

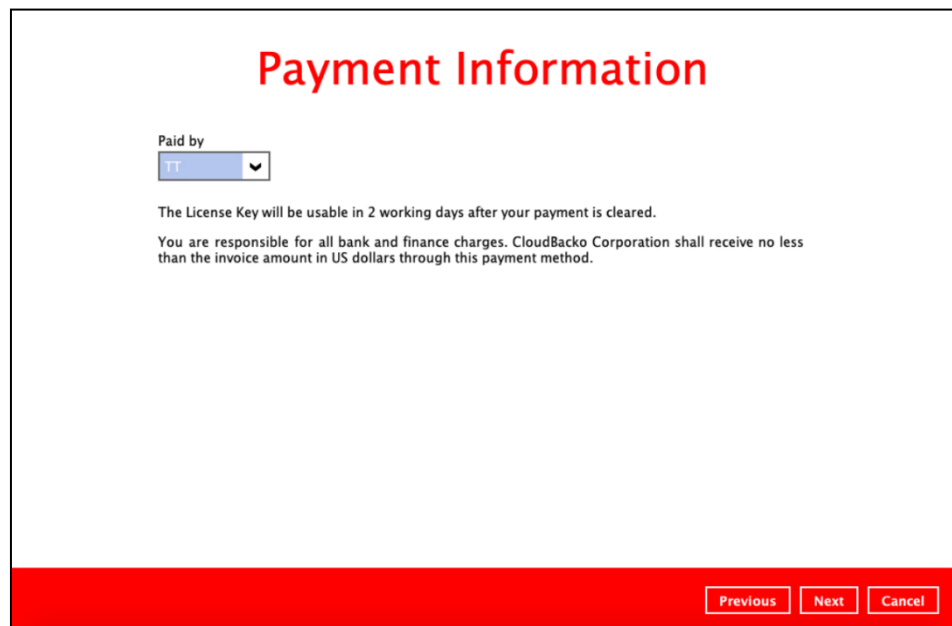
Order Summary			
Items			
Description	Unit Price	Qty.	Amount
CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
<div> ? Payment failed, the reason is: General decline You may retry, try another card, contact your bank, or contact our sales at sales@cloudbacko.com for assistance. <div> Retry Try another card Contact our sales Cancel </div> </div>			
Payment Method			
Paid by	Credit Card		
Card type	VISA		
Card number	4[masked]19 Security code [masked]		
First name	[masked]		
<input checked="" type="checkbox"/> I accept the terms and conditions of the purchase agreement.			
<div> Previous Confirm Cancel </div>			

7.8.2 TT (Telegraphic Transfer)

TT (Telegraphic Transfer) is an electronic mode of transferring funds from bank to bank. Processing time can take up to two weeks to settle, depending on the origin, destination, and individual bank.

This payment mode can be used to purchase software licenses and/or additional add-on modules for trial users and for paid license users who want to avail add-on modules.

1. Click the **Next** button to proceed.



2. Complete the following fields for the Contact Information then click the **[Next]** button to proceed.

- ▶ Contact person
- ▶ Email for receiving receipt
- ▶ Company name (optional)
- ▶ VAT number (optional)
- ▶ Street line 1
- ▶ Street line 2 (optional)
- ▶ City
- ▶ State / Province / Territory (optional)
- ▶ Postal / Zip code (optional)
- ▶ Country

Contact Information

Contact person

Email for receiving receipt

Company name (optional)

VAT number (optional)

Address

Street line 1

Street line 2 (optional)

City

State / Province / Territory (optional)

Postal / Zip code (optional)

Country


Previous Next Cancel

- In the Order Summary screen, order Items, Contact Information, and Payment Method are displayed.

Tick the “**I accept the terms and conditions of the purchase agreement**” and click the **Confirm** button to proceed with the payment.

Order Summary

Items

Description	Unit Price	Qty.	Amount
 CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
Total :			US\$99

Contact Information

Contact person
 Email
 Address Valero Street, Makati City, Philippines

Payment Method

Paid by TT
 The License Key will be usable in 2 working days after your payment is cleared.
 You are responsible for all bank and finance charges. CloudBacko Corporation shall receive no less than the invoice amount in US dollars through this payment method.


☒ I accept the **terms and conditions of the purchase agreement**.

Previous Confirm Cancel

- The invoice for the license purchase will be generated.

Order Summary

Items

Description	Unit Price	Qty.	Amount
 CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
Total :			US\$99

Contact Information

Contact person [Redacted]
Email [Redacted]@gmail.com
Address Valero Street, Makati City, Philippines

Processing the payment...

Payment Method

Paid by TT

The License Key will be usable in 2 working days after your payment is cleared.


You are responsible for all bank and finance charges. CloudBacko Corporation shall receive no less than the invoice amount in US dollars through this payment method.

☒ I accept the [terms and conditions of the purchase agreement](#).

Previous
Continue
Cancel


The Invoice will be displayed. Click the **Print** button to print out the invoice and bring it to your bank to arrange TT payment.

Invoice



CloudBacko Corporation
 28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok,
 Kowloon
 Hong Kong

OFFICIAL INVOICE

License Key : _****_***** (Online)

Invoice Number : CC-97830	Contact Person : [Redacted]
Due Date : 2021-12-09	Email : [Redacted]@gmail.com
Payment Method : TT	Address : Valero Street, Makati City, Philippines

Description	Unit Price	Qty.	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
Total :			US\$99

Payment Instruction

Print
Close

Invoice

Payment Instruction

Please transfer the total due amount to one of the following accounts. You are responsible for all bank and finance charges.

CloudBacko shall receive no less than the total due amount specified.

Telegraphic Transfer in US Dollar (US\$)

Bank Account Name	:	CloudBacko Corporation
Company Address	:	28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong
Bank Code	:	041
U.S. Dollars Account No.	:	256-15-022973-4 (USD)
Bank Name	:	Chong Hing Bank Ltd
Bank Address	:	G/F, Chong Hing Bank Centre, 24 Des Voeux Road Central, Hong Kong
SWIFT Code	:	LCHBHKHH
Country	:	Hong Kong

To transfer money to either of the above accounts, IBAN Nr is unnecessary. Please ensure the Bank Code and SwiftCode are quoted properly in the transfer application.

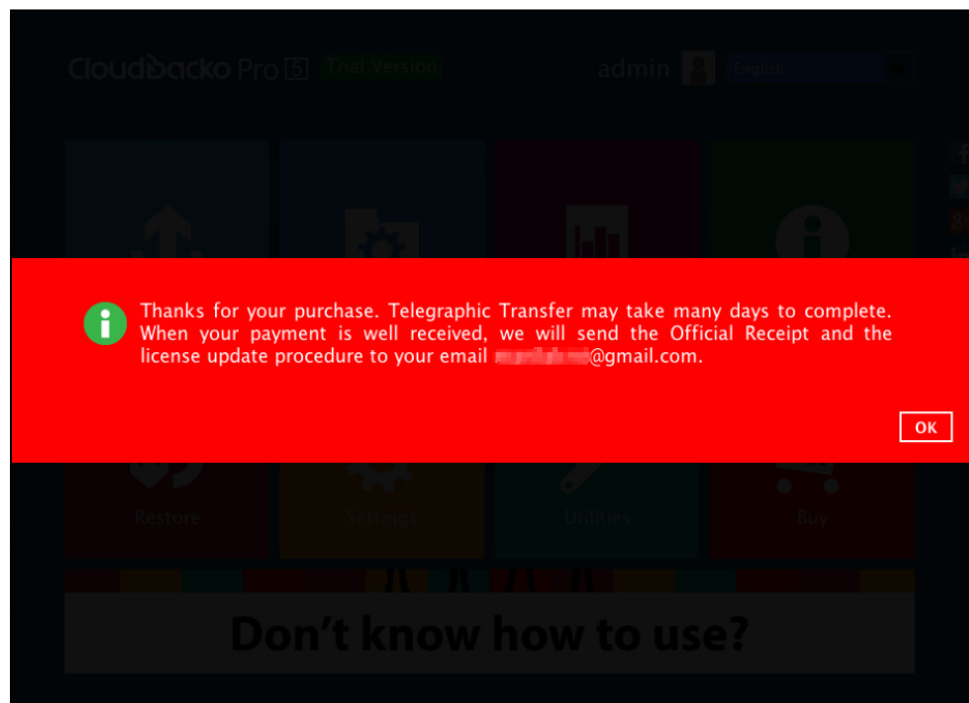
Please specify the Invoice Number as the payment remark.

Please pay on or before the Invoice Expiry Date.


The License Key will be useable in 2 working days after your payment is cleared.

Print Close

This prompt message will appear to inform customer that if the payment through telegraphic transfer is successful, the official receipt, software license, and license update procedure will be sent to the email address indicated in the Contact Information.



These are sample email for the copy of Invoice.


CloudBacko License Center (Developer Bu...
11:08 (12 minutes ago)
☆
↩
⋮

to [redacted]


Dear customer,



Thank you for purchasing CloudBacko. Attached please find your invoice #CC-97830.


Please settle the payment according to the instruction stated in the invoice. The License Key will be useable in 2 working days after your payment is cleared.

Regards,

Customer Service
CloudBacko Corporation


Invoice_CC-97830.html
 18 KB



CloudBacko Corporation
28/F, Ford Glory Plaza, No.37 Wing Hong Street,
Lai Chi Kok, Kowloon, Hong Kong

OFFICIAL INVOICE

License Key: *****_****_****-***** (Online)	
Invoice Number: CC-97830	Contact Person: [redacted]
Invoice Expiry Date: 2021-12-09	Email: [redacted]@gmail.com
Payment Method: TT	Company Name: Valero Street, Makati City, Philippines
	VAT:

Description	Unit Price	Qty	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99

Total : US\$99

Payment Instruction

Please transfer the total due amount to one of the following accounts. You are responsible for all bank and finance charges. CloudBacko shall receive no less than the total due amount specified.

Telegraphic Transfer in US Dollar (US\$)

Bank Account Name	: CloudBacko Corporation
Company Address	: 28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong
Bank Code	: 041
U.S. Dollars Account No.	: 256-15-022973-4 (USD)
Bank Name	: Chong Hing Bank Ltd
Bank Address	: G/F, Chong Hing Bank Centre, 24 Des Voeux Road Central, Hong Kong
SWIFT Code	: LCHBHKHH
Country	: Hong Kong

To transfer money to either of the above accounts, IBAN Nr is unnecessary. Please ensure the Bank Code and SwiftCode are quoted properly in the transfer application.

Please specify the Invoice Number as the payment remark.

Please pay on or before the Invoice Expiry Date.

The License Key will be useable in 2 working days after your payment is cleared.

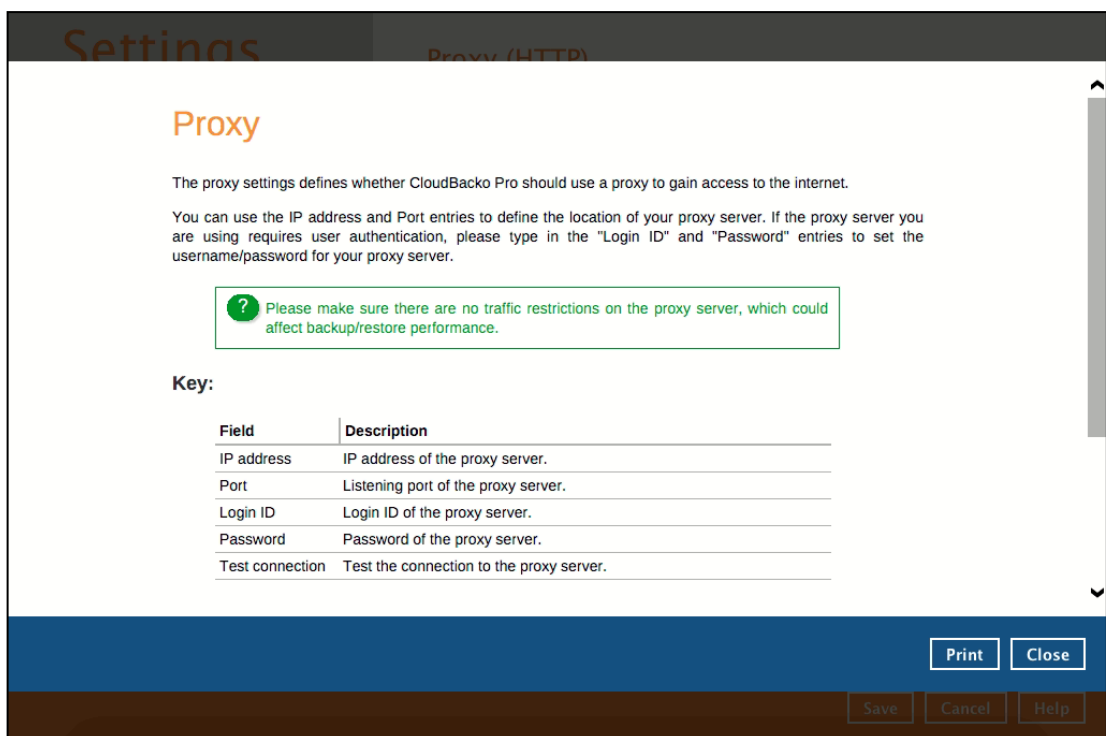
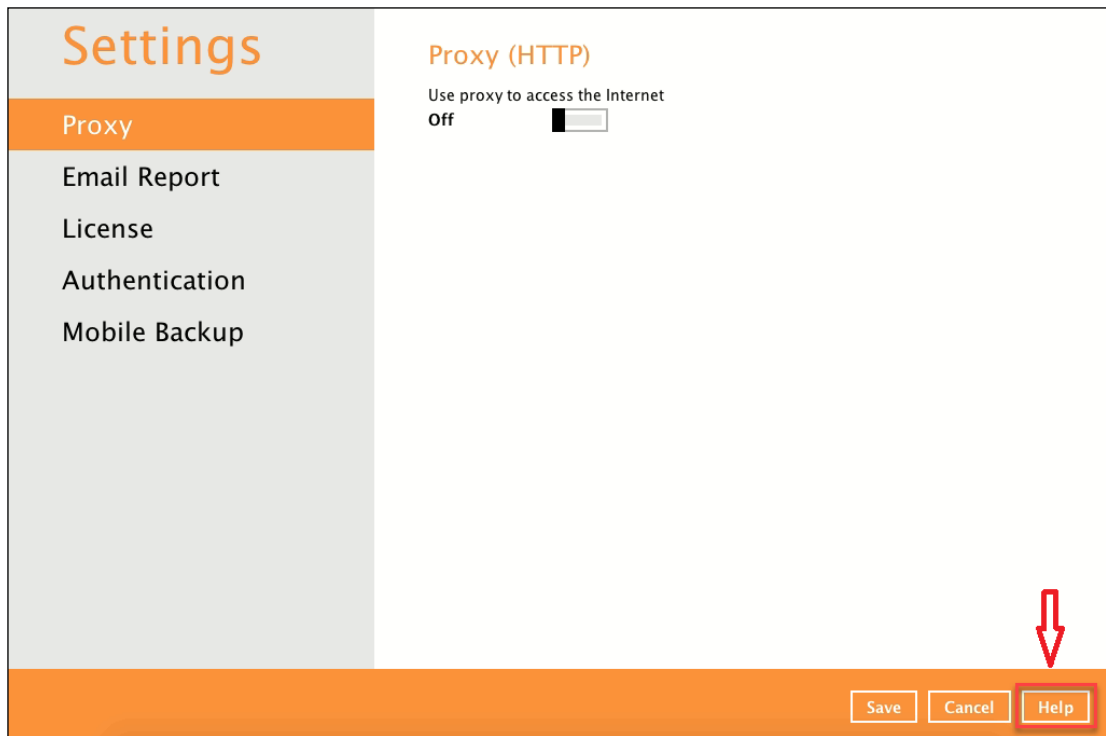
7.9 Social Media Icons

These are the social media accounts of CloudBacko. Each icon links to the CloudBacko page or channel.

	Facebook	https://www.facebook.com/cloud.backo
	Twitter	https://twitter.com/CloudBacko
	LinkedIn	https://www.linkedin.com/company/cloudbacko-corporation
	YouTube	https://www.youtube.com/user/CloudBacko

7.10 Online Help


This allows the user to view the summary of information and instructions of each available feature in CloudBacko Pro.

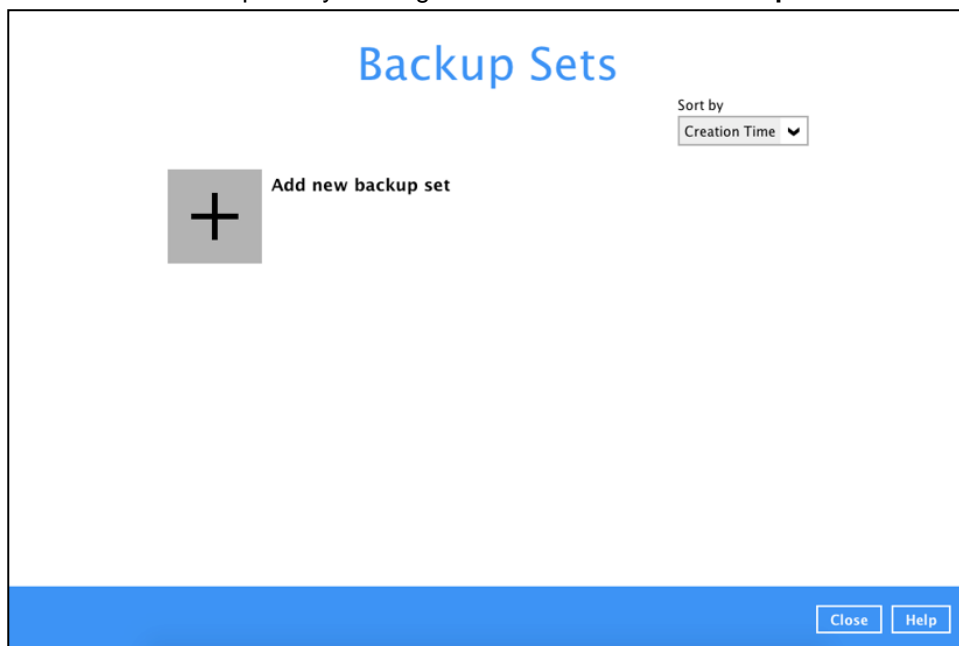


8 Create a Backup Set

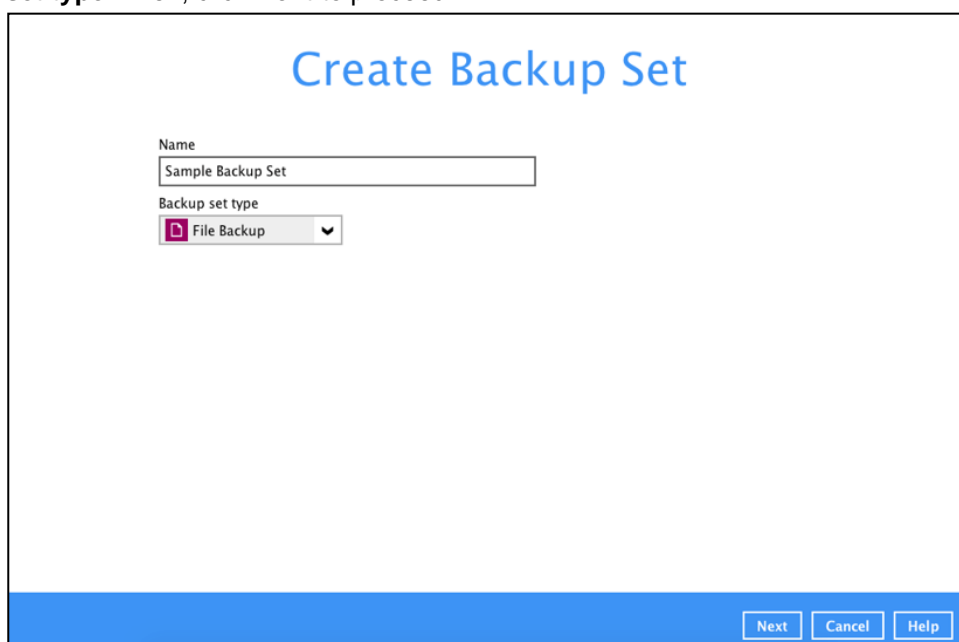
1. Click the **Backup Sets** icon on the main interface of CloudBacko Pro.



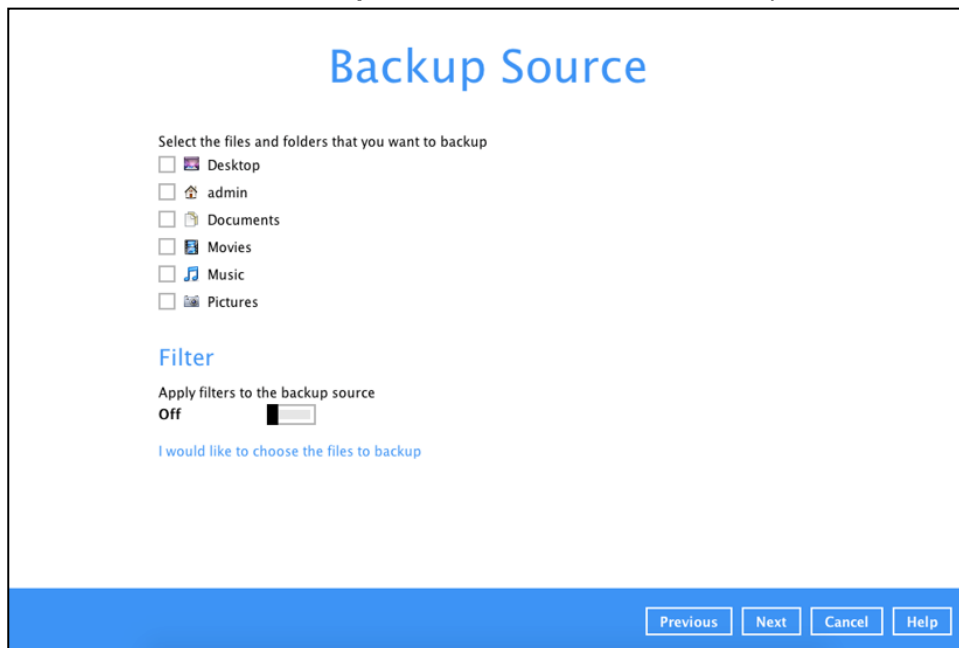
2. Create a new backup set by clicking  next to **Add new backup set**.



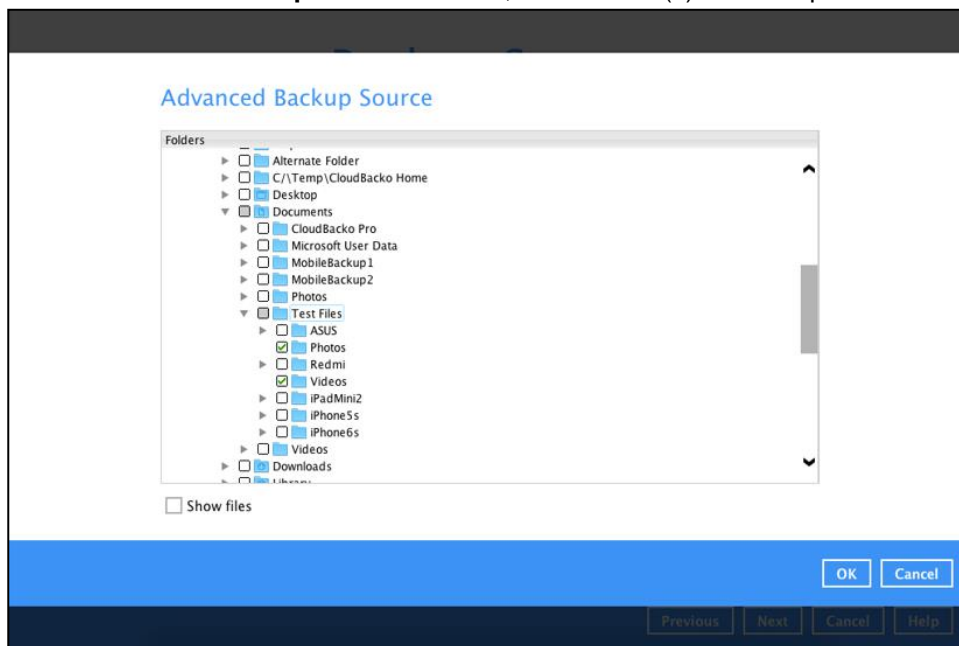
3. When the Create Backup Set window appears, name your new backup set, and select the **Backup set type**. Then, click **Next** to proceed.



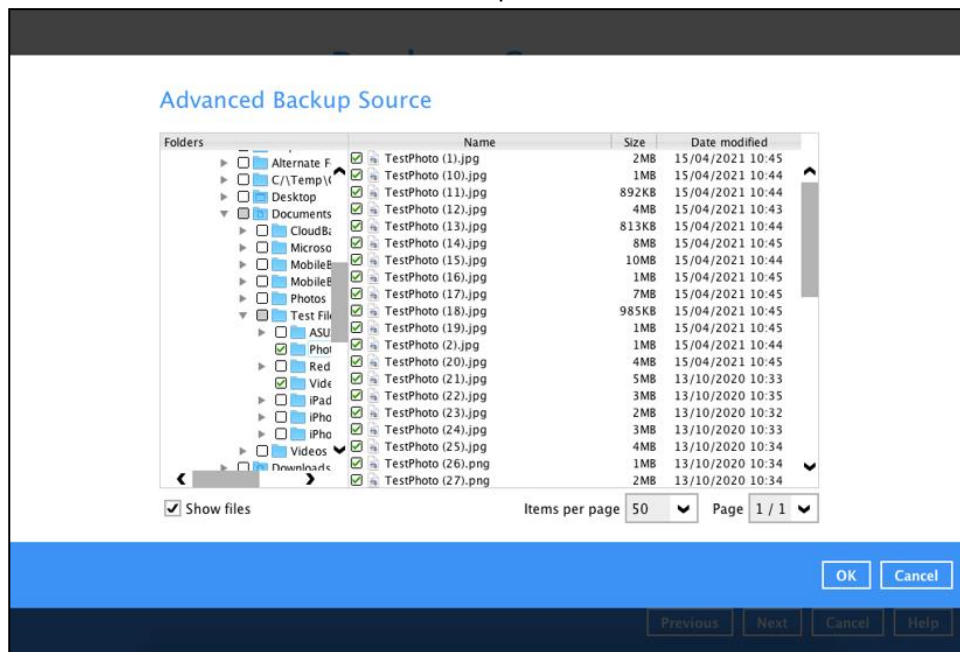
4. In the Backup Source window, select the source files and folders for backup. Click **I would like to choose the files to backup** to select individual files for backup.



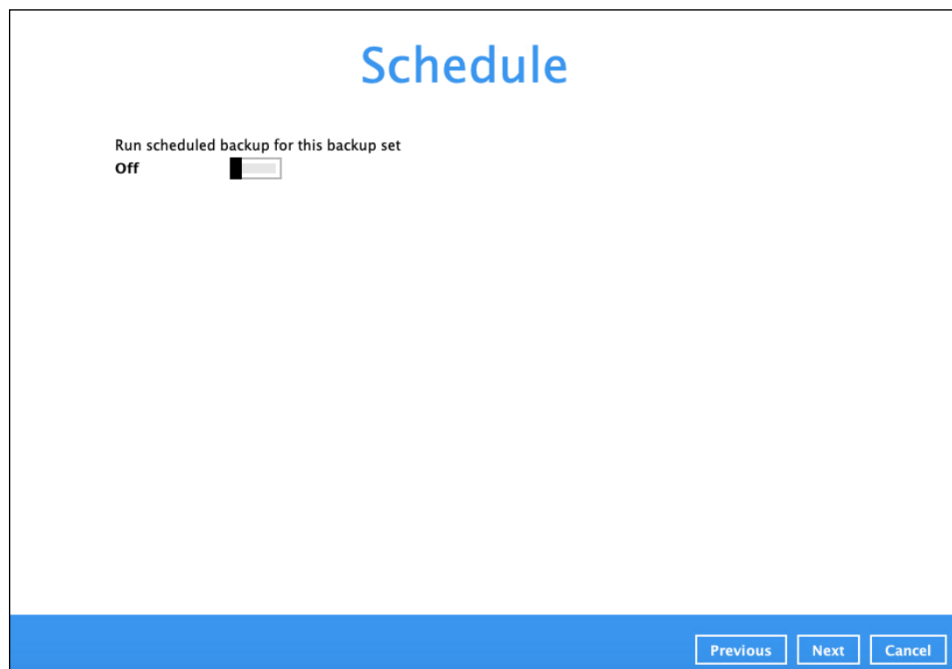
5. In the **Advanced Backup Source** window, select folder(s) to back up all files in the folder(s).



- Alternatively, if you want to back up only specific files instead of all files in your selected folder(s), select the **Show files** checkbox at the bottom of the screen. A list of files will appear on the right-hand side. Select the checkbox(es) next to the file(s) to back up. Then, click **OK** to save your selections and close the Advanced Backup Source window.



- In the Backup Source window, click **Next** to proceed.
- When the **Schedule** window appears, you can configure a backup schedule to automatically run a backup job at your specified time interval. In the Schedule window, the Run scheduled backup for this backup set is **Off** by default.



- If you want to add another schedule, click the **Add** button.


- When the New Backup Schedule window appears, specify your backup schedule. Then, click **OK** to save your changes and close the New Backup Schedule window.

9. In case you have added a schedule, it will be shown in the Schedule window. Click **Next** to proceed when you are done setting.

10. The **Destination** window will appear.

Select the appropriate option from the **Backup mode** dropdown menu.

- **Sequential** (default value) – run backup jobs to each backup destination one by one
- **Concurrent** – run backup jobs to all backup destinations at the same time

To select a backup destination for the backup data storage, click  next to **Add new storage destination / destination pool**.

11. In the New Storage Destination / Destination Pool window, select the destination type and destination storage. Then, click **OK** to confirm your selection.

New Storage Destination / Destination Pool

Name
Local-1

Type
☒ Single storage destination
☐ Destination pool

Destination storage
 Local / Mapped Drive / Removable Drive

Local path
 /Users/admin/Documents/Backup Change

✓ Test completed successfully

OK Cancel Help

12. In the Destination window, your selected storage destination will be shown. Click **Next** to proceed.

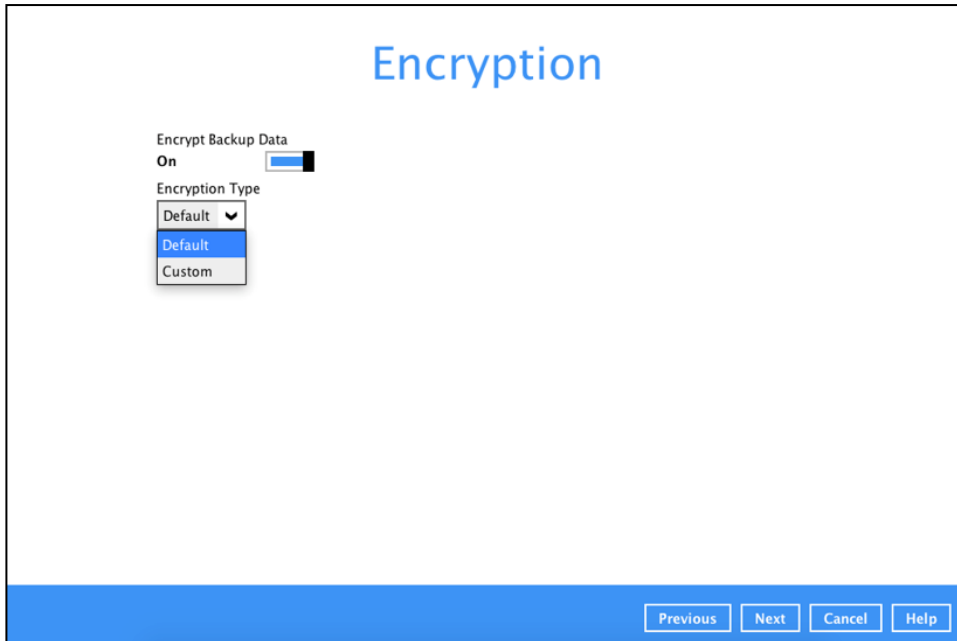
Destination

Backup mode
 Sequential

Existing storage destinations
 Local-1
 /Users/admin/Documents/Backup
 Add

Previous Next Cancel Help

13. In the Encryption window, the default **Encrypt Backup Data** option is enabled with an encryption key preset by the system which provides the most secure protection.



Encryption

Encrypt Backup Data
On ☒

Encryption Type
Default ▼
Default
Custom

Previous Next Cancel Help

You can choose from one of the following two Encryption Type options:

- **Default** – an encryption key with 44 alpha numeric characters will be randomly generated by the system.
- **Custom** – you can customize your encryption key, where you can set your own algorithm, encryption key, method, and key length.



Encryption

Encrypt Backup Data
On ☒

Encryption Type
Custom ▼

Algorithm
AES ▼

Encryption key
.....

Re-enter encryption key
.....

Method
☐ ECB ☒ CBC

Key length
☐ 128-bit ☒ 256-bit

Click **Next** when you are done setting.

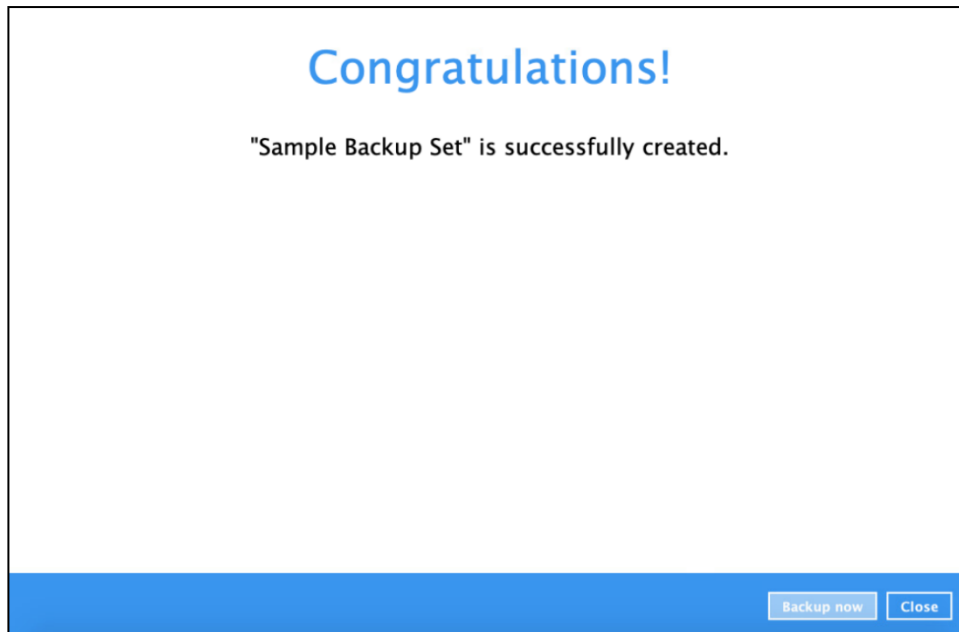
14. If you have enabled the Encryption Key feature in the previous step, the following pop-up window shows, no matter which encryption type you have selected.

The pop-up window has the following three options to choose from:

- **Unmask encryption key** – The encryption key is masked by default. Click this option to show the encryption key.

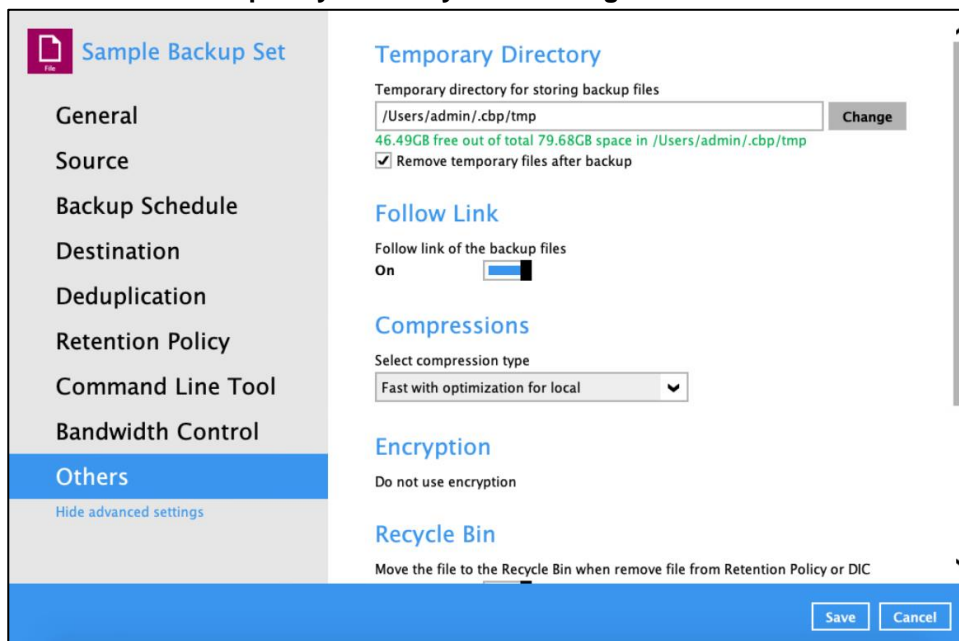
- **Copy to clipboard** – Click to copy the encryption key, then you can paste it in another location of your choice.
- **Confirm** – Click to exit this pop-up window and proceed to the next step.

15. Upon successful creation of the backup set, the following screen will appear. You can click **Backup now** to back up your data or click **Close** to exit.



16. It is highly recommended to change the Temporary Directory. Select another location with sufficient free disk space other than **/Users/admin/.cbp/tmp**.

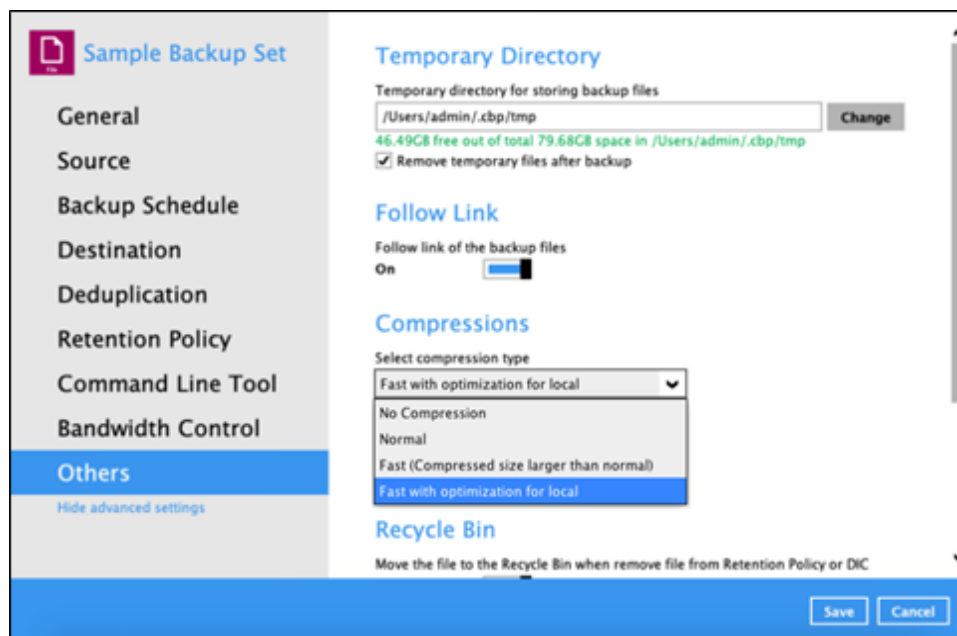
Go to **Others > Temporary Directory**. Click **Change** to browse for another location.



17. Optional: Select your preferred **Compression** type. By default, the compression is set to Fast with optimization for local.

Go to **Others > Compressions**. Select from the following:

- No Compression – file will not be compressed before backup.
- Normal - compression is comparable to gzip Normal compression ratio.
- Fast - (Compressed size larger than normal) – compression will be faster but with less compression and lower CPU usage compared to Normal.
- Fast with optimization for local – uses Snappy compression library when backing up to local destination only, otherwise setting will default to gzip if backing up to other destinations. Has the lowest CPU usage, very high speed and reasonable compression but compressed file size may be larger than Fast.



Sample Backup Set

Others

Hide advanced settings

Temporary Directory

Temporary directory for storing backup files

/Users/admin/.cbp/tmp Change

46.49GB free out of total 79.68GB space in /Users/admin/.cbp/tmp

☒ Remove temporary files after backup

Follow Link

Follow link of the backup files

On ☒

Compressions

Select compression type

Fast with optimization for local

No Compression

Normal

Fast (Compressed size larger than normal)

Fast with optimization for local

Recycle Bin

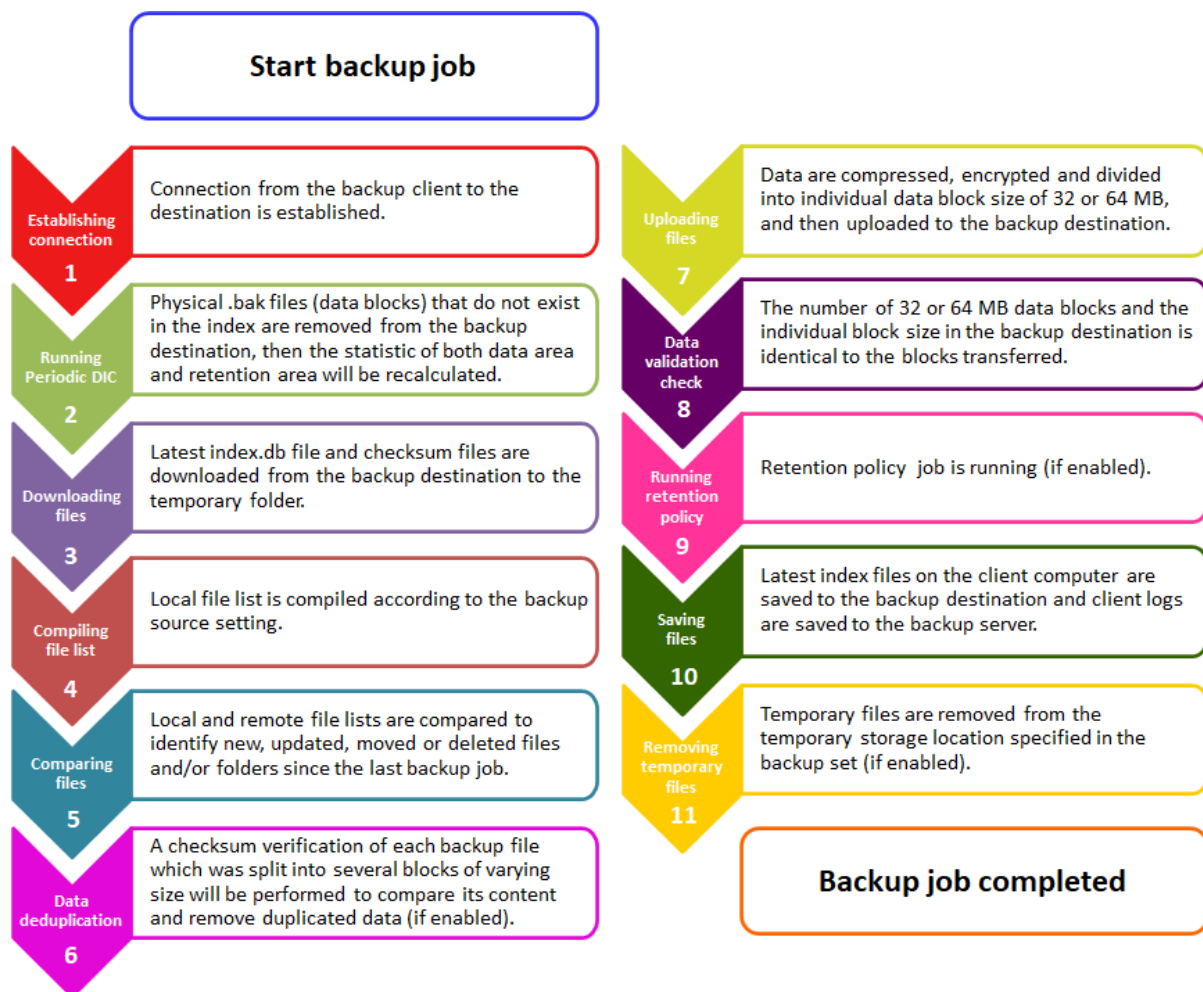
Move the file to the Recycle Bin when remove file from Retention Policy or DIC

Save Cancel

9 Overview on Backup Process

The following steps are performed during a backup job. For an overview of the detailed process for Steps 2, 3, 8, and 10, refer to the following chapters:

- ▶ [Periodic Data Integrity Check \(PDIC\) Process \(Step 2\)](#)
- ▶ [Backup Set Index Handling Process](#)
 - ▶ [Start Backup Job \(Step 3\)](#)
 - ▶ [Completed Backup Job \(Step 10\)](#)
- ▶ [Data Validation Check Process \(Step 8\)](#)



9.1 Periodic Data Integrity Check (PDIC) Process

The PDIC will run on the first backup job that falls on the corresponding day of the week from **Monday to Friday**.

To minimize the impact of the potential load of large number of PDIC jobs running, the schedule of a PDIC job for each backup set is automatically determined by the result of the following formula:

PDIC schedule = %BackupSetID% modulo 5

or

%BackupSetID% mod 5

The calculated **result** will map to the corresponding day of the week (i.e., from Monday to Friday).

0	Monday
1	Tuesday
2	Wednesday
3	Thursday
4	Friday

NOTE

The PDIC schedule cannot be changed.

Example:

Backup set ID: 1594627447932

Calculation: $1594627447932 \text{ mod } 5 = 2$

2	Wednesday
----------	------------------

In this example:

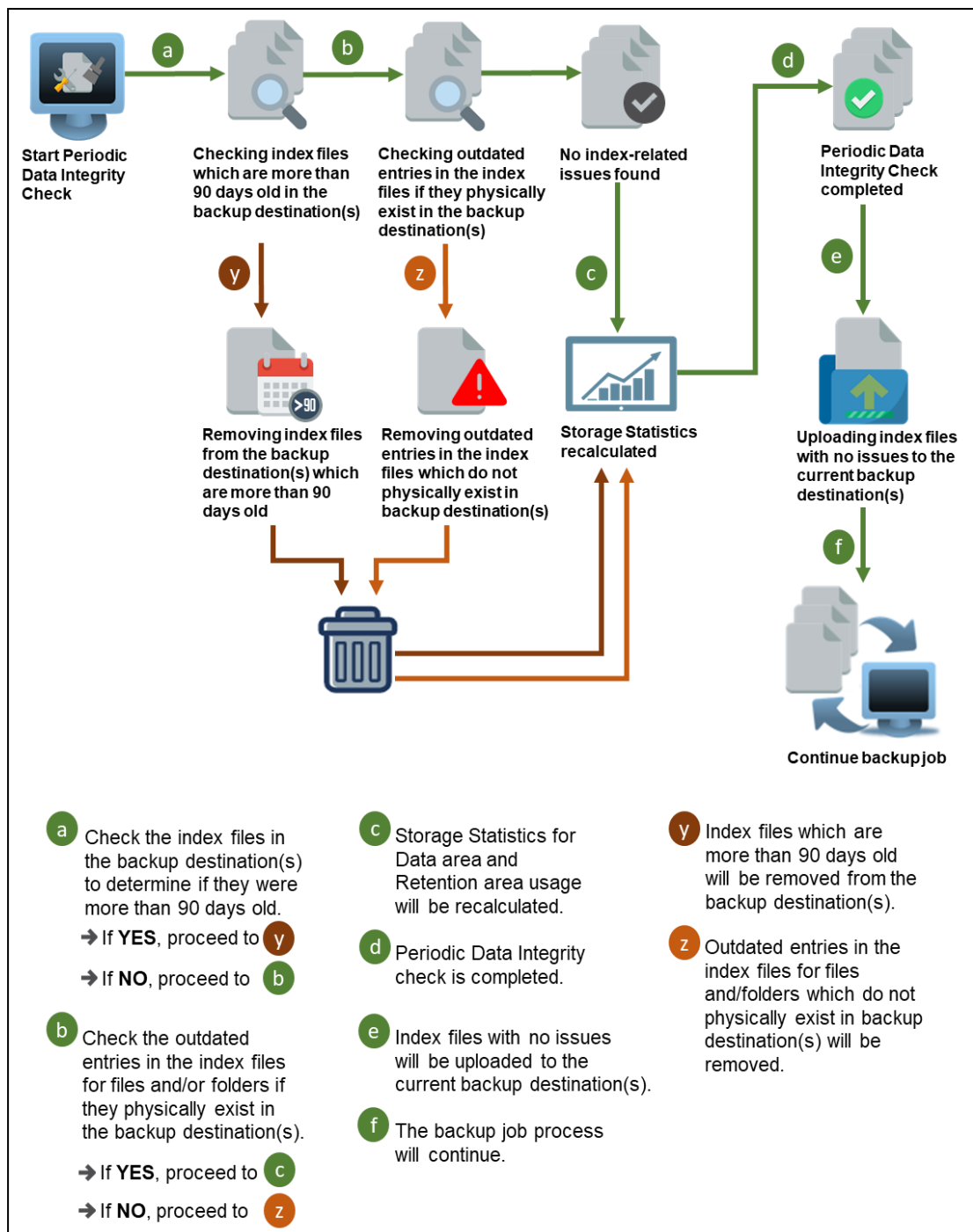
- the PDIC will run on the first backup job that falls on Wednesday; or
- if there is no active backup job(s) running from Monday to Friday, then the PDIC will run on the next available backup job.

NOTE

Although according to the PDIC formula for determining the schedule is %BackupSetID% mod 5, this schedule only applies if the previous PDIC job was actually run more than 7 days prior.

Under certain conditions, the PDIC may not run strictly according to this formula. For example:

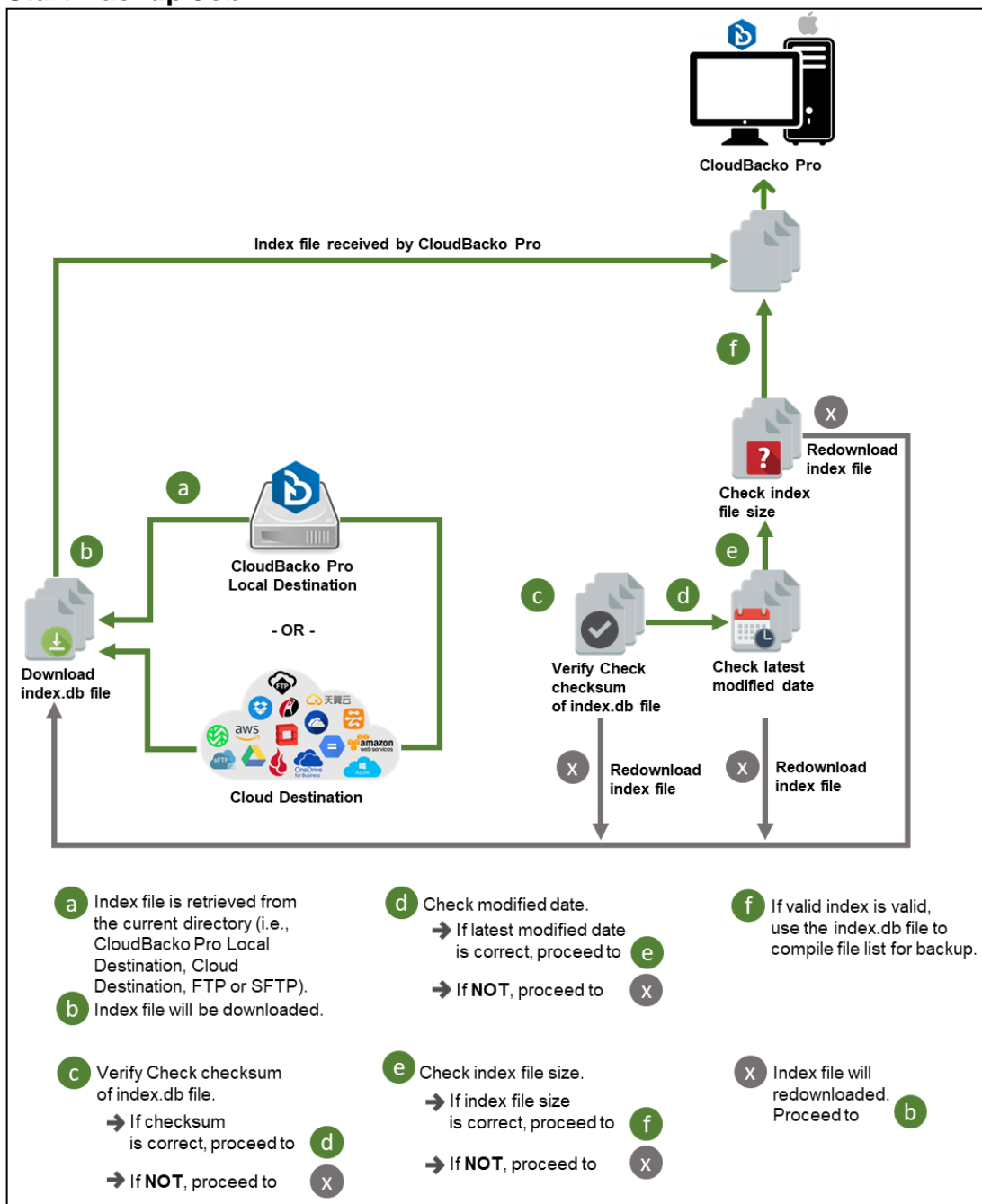
- If backup jobs for a backup set are not run on a regular daily backup schedule (for example: on a weekly or monthly schedule), then the PDIC job will run if it detects that the previous PDIC job was run more than 7 days ago.
- Every time a data integrity check (DIC) is run, the latest PDIC run date is reset, the next PDIC job will run after 7 days.
- The PDIC job will not run if there are no files in both the data and retention areas. For example: a newly created backup set with no backup job history or a backup set where all the data has been deleted using the [Delete Backup Data](#) feature.



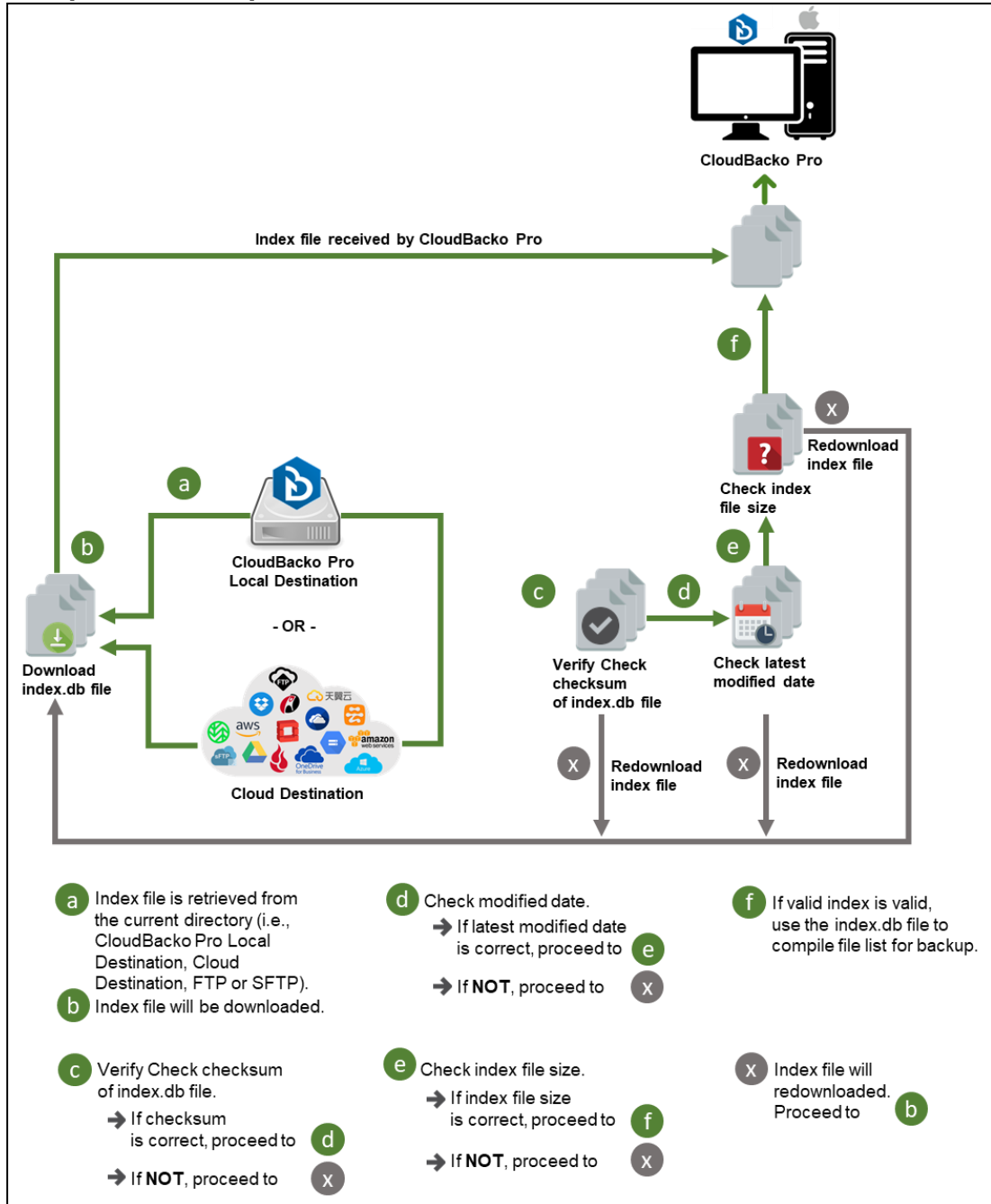
9.2 Backup Set Index Handling Process

To minimize the possibility of index related issues affecting backups, each time index files are downloaded from and uploaded to backup destination(s); the file size, last modified date, and checksum is verified to ensure index file integrity.

9.2.1 Start Backup Job

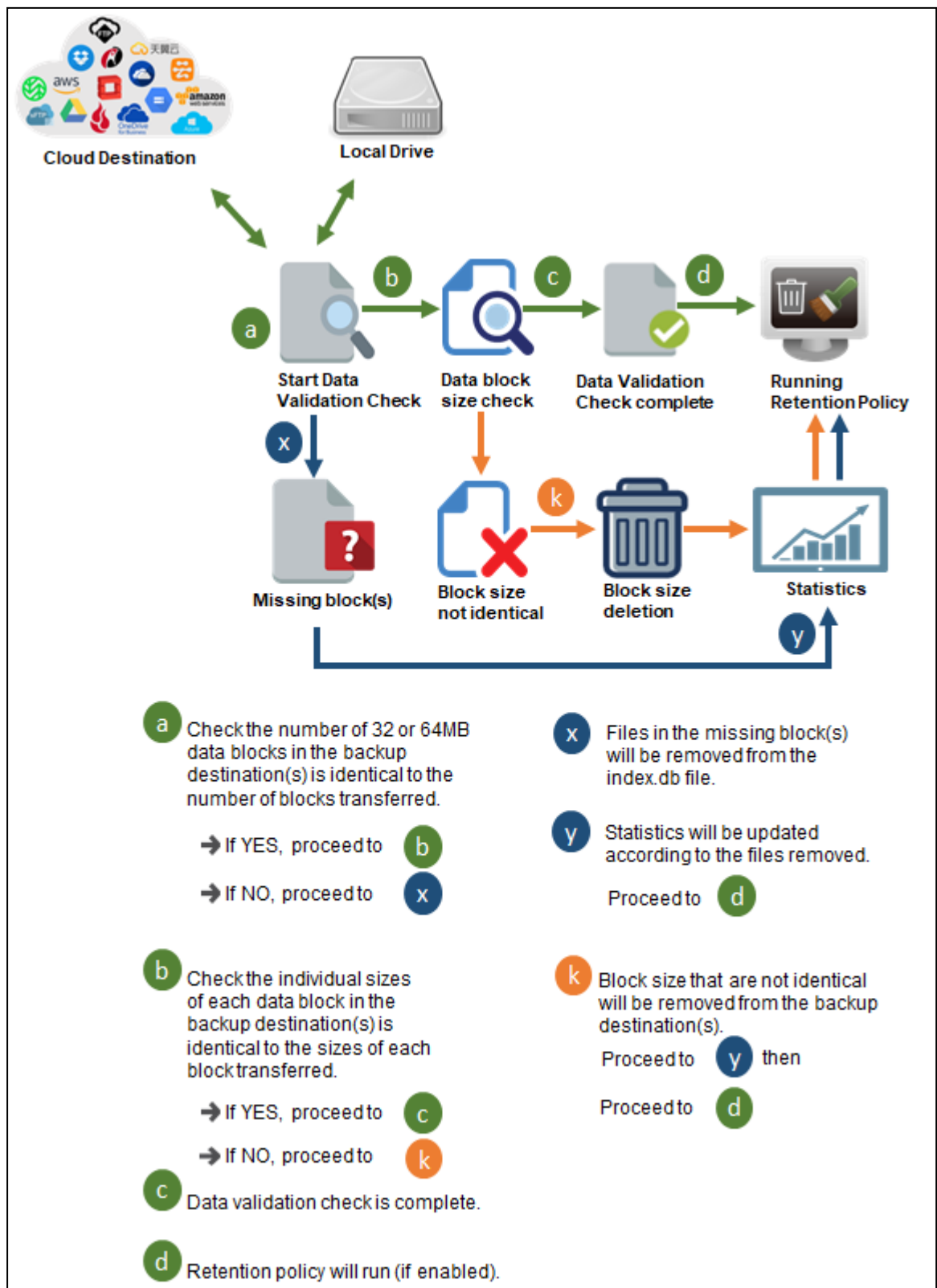


9.2.2 Completed Backup Job



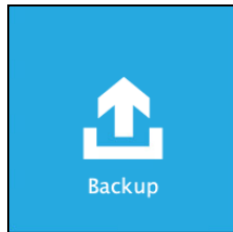
9.3 Data Validation Check Process

As an additional measure to ensure that all files transferred to the backup destination(s) are received and saved correctly, both the number of 16 or 32 MB data block files and the size of each block file are checked again after the files are transferred.

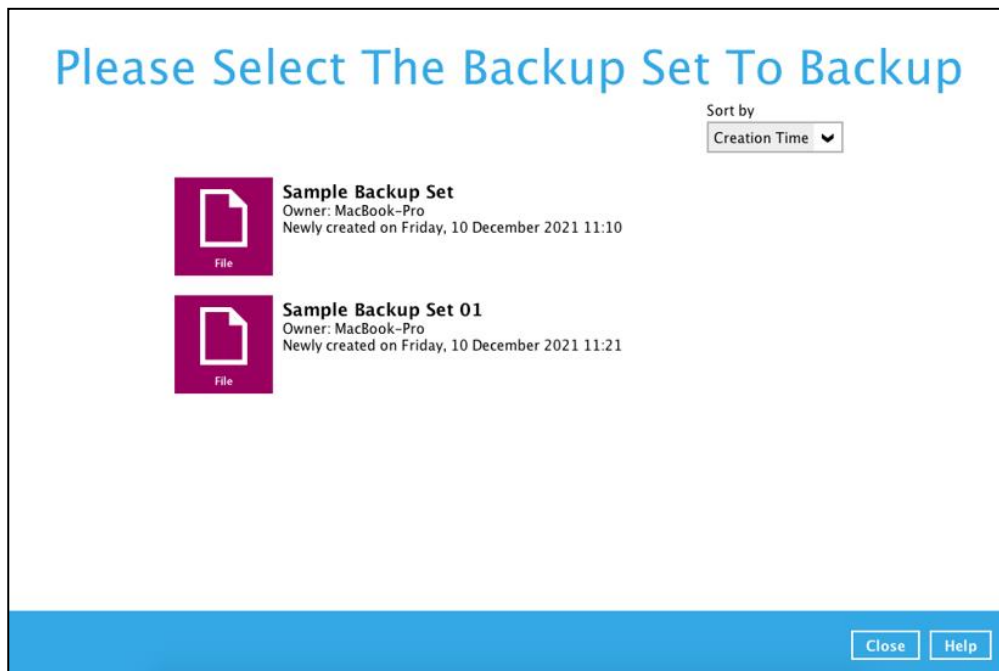


10 Run Backup Jobs

1. Click **Backup** on the main interface of CloudBacko Pro.




2. Select the backup set that you would like to start a backup job for.



- You can modify the Destinations and Migrate Data options. Once done with the settings, click the **Backup** button to start the backup job.

Choose Your Backup Options

 **Sample Backup Set**

Backup set type
File

Destinations

☒ Local-1 (/Users/admin/Documents/backup)

☒ GoogleDrive-1 (Google Account: [redacted])

Migrate Data

☐ Migrate existing data to latest version


Previous Backup Cancel


NOTE

The Migrate Data option will only be displayed if Deduplication is enabled for the backup set. Backup job(s) for backup sets with Migrate Data enabled may take longer to finish.

- When the backup is completed, the progress bar will be green in color and the message “Backup Completed Successfully” will appear.

Backup

 **Sample Backup Set**

 **Local-1 (/Users/admin/Desktop)**

✓ Backup Completed Successfully


Estimated time left 0 sec

Backed up 0B (0 file, 0 directory, 0 link)

Elapsed time 11 sec

Transfer rate 0bit/s

Close Help

- You can click the  **View** icon on the right-hand side to check the log. A window will pop up to show the log. Close the pop-up window when you finish reading it.

Show All

Type	Log	Time
	Deduplication look up will be skipped because deduplication setting of this backup set is set to disabled.	17/10/2022 11:27:46
	Start [CloudBacko Pro v5.4.3.5]	17/10/2022 11:27:59
	Start Backup ... [Deduplication: disabled, Chunking: FSC(1 Mi)]	17/10/2022 11:28:01
	Using Temporary Directory /Users/admin/.cbp/tmp/1665038009793/Local@1665038126531	17/10/2022 11:28:01
	Skip download index since local index "/Users/admin/.cbp/tmp/1665038009793/Local@1665038126531/index"...	17/10/2022 11:28:03
	Start running pre-commands	17/10/2022 11:28:03
	Finished running pre-commands	17/10/2022 11:28:03
	Downloading server file list...	17/10/2022 11:28:03
	Skip download index since local index "/Users/admin/.cbp/tmp/1665038009793/Local@1665038126531/index"...	17/10/2022 11:28:04
	Deleting out of retention period recycled files...	17/10/2022 11:28:04
	Delete out of retention period recycled files result - Size: 0 B, File Count: 0	17/10/2022 11:28:04
	Deleting out of retention period recycled files... Completed	17/10/2022 11:28:04
	Downloading server file list... Completed	17/10/2022 11:28:04
	Reading backup source from hard disk...	17/10/2022 11:28:05
	Getting all files which have been moved...	17/10/2022 11:28:05
	Getting all files which have been moved... Completed	17/10/2022 11:28:05
	Reading backup source from hard disk... Completed	17/10/2022 11:28:05
	Start validating the presence and size of backup data in destination "Local-1"...	17/10/2022 11:28:06
	This backup job has no backup data in destination "Local-1"	17/10/2022 11:28:06
	Finished validating the presence and size of backup data in destination "Local-1"	17/10/2022 11:28:06

Logs per page 50

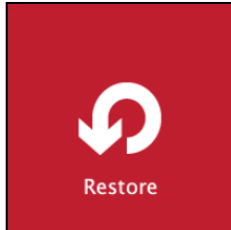
Page 1 / 1

Close

11 Restore Data

11.1 Restore Method

1. Log in to the CloudBacko Pro application according to the instructions in section [Chapter 6 Start CloudBacko Pro](#).
2. Click the **Restore** icon on the main interface of CloudBacko Pro.



3. In the next page, you will have several options to select. On this page, you may select the **Backup Set** to restore, as well as the **Destination** to which the data will be restored to.

You may also choose the temporary directory for restoring files by selecting the directory under **Temporary directory for storing restore files**.

Select From Where To Restore

Select a backup set

File-1

Select a destination

Local-1

Temporary directory for storing restore files

Browse

Next

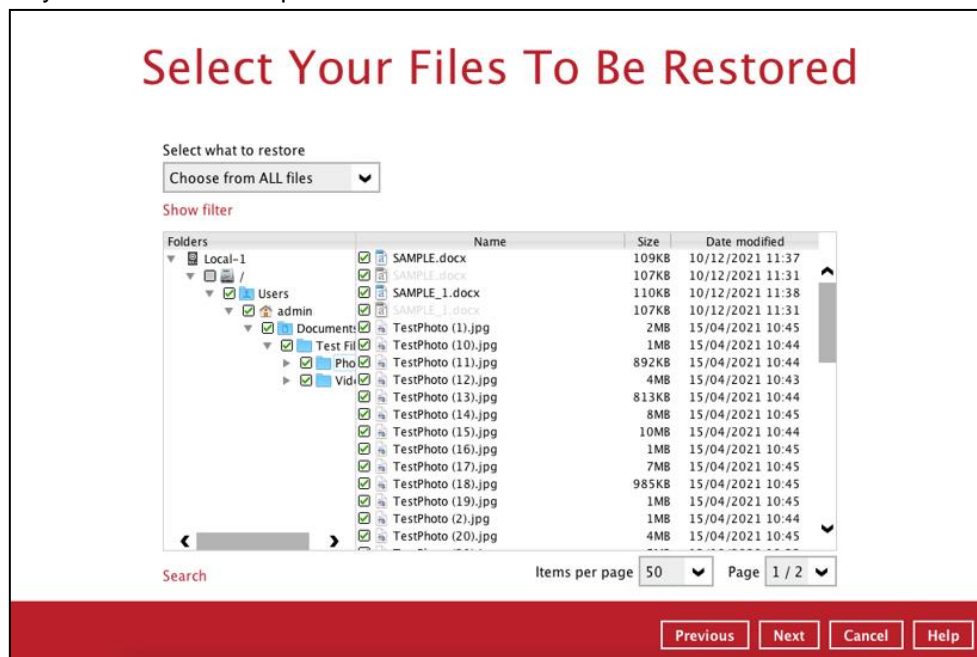
Close

4. Select to restore files from a specific backup job, or from all files available. Then, select the files or folders that you would like to restore.

There are two options from the **Select what to restore** dropdown menu:

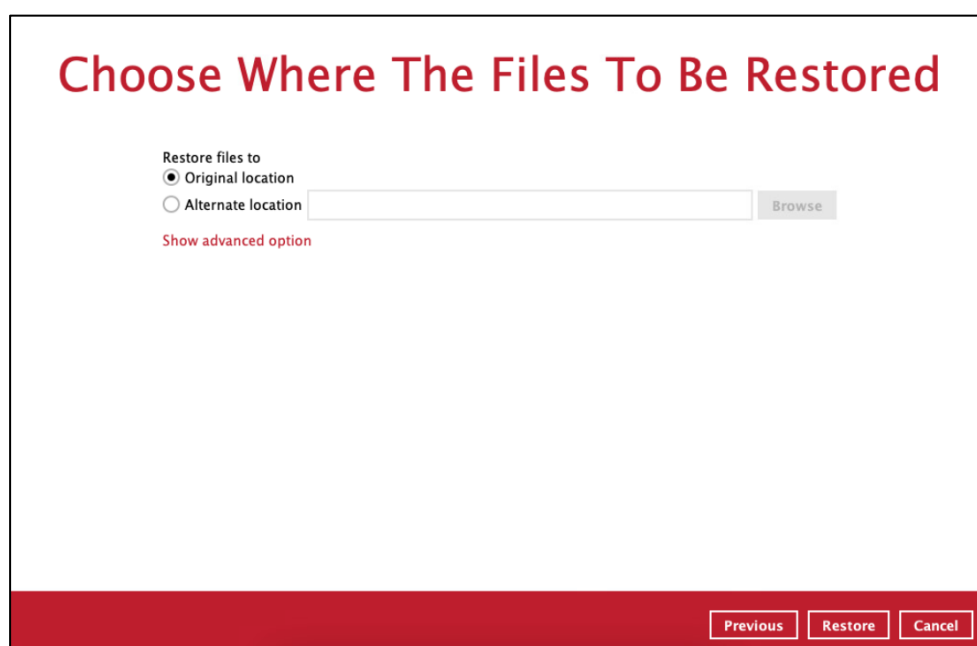
- **Choose from files as of job** – This option allows you to select a backup version from a specific date and time to restore.

- **Choose from ALL files** – This option allows you to restore all the available backup versions for this backup set. Among all the available backup versions, you can even select only some of the backup versions of a file to restore.



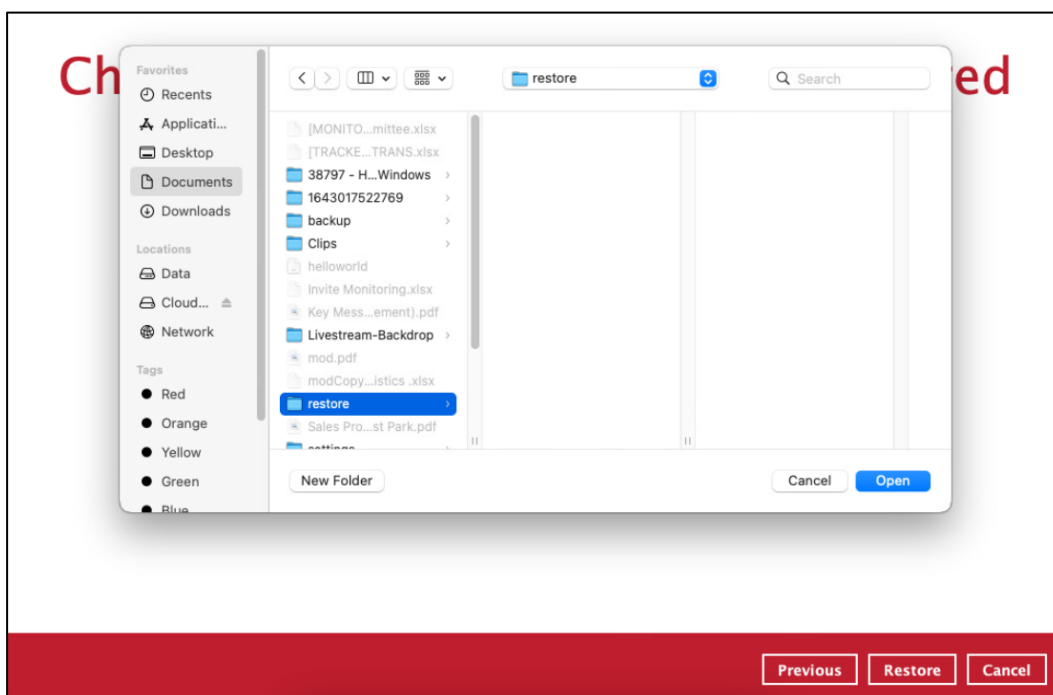
5. Click **Next** to proceed when you are done with the selections.
6. Select to restore the files to their **Original location**, or to an **Alternate location**. Then, click **Next** to proceed.
 - **Original location** – the backed-up data will be restored to the computer running the CloudBacko Pro under the same directory path as on the machine storing the backup source.

For example, if the backup source files are stored under **Users/[User's Name]/Downloads** folder, the data will be restored to **Users/[User's Name]/Downloads** as well on the computer running the CloudBacko Pro.



- **Alternate location** – you can choose to restore the data to a location of your choice on the computer where CloudBacko Pro is running.

Click **Browse**, select the location and click **Open**.



7. Click **Show advanced option** to configure other restore settings.

Restore files to

☒ Original location

☐ Alternate location

Show advanced option

☐ Delete unmatched data in restore location

☒ Verify checksum of in-file delta files during restore

Hide advanced option

- **Delete unmatched data in restore location**

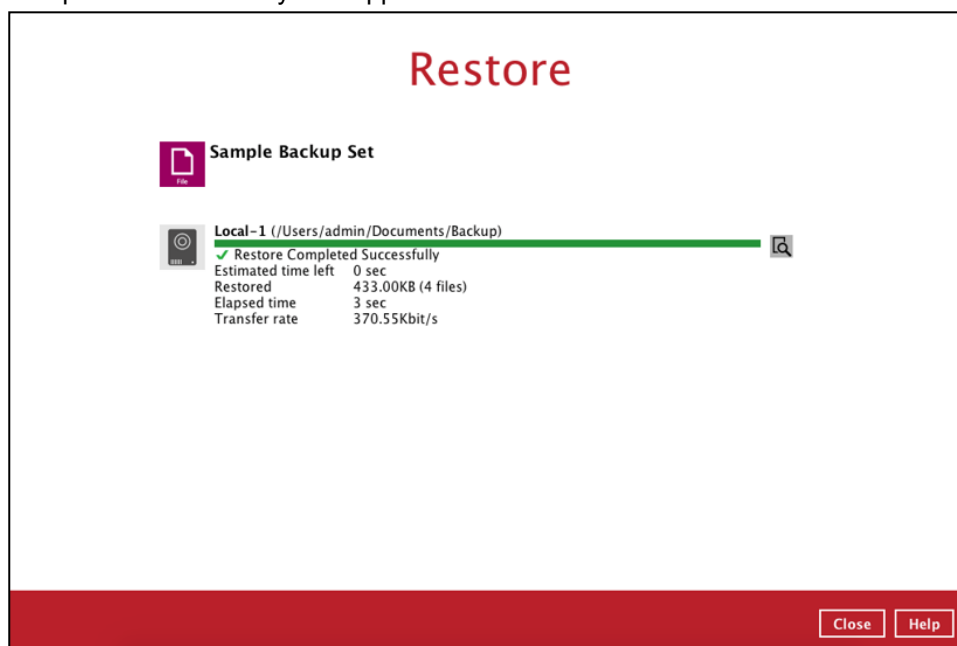
By enabling this option, the restore process will attempt to synchronize the selected restore source with the restore destination, making sure the data in the restore destination is the same as the restore source. Any data created after backup will be treated as “unmatched data” and will be deleted from the restore source if this feature is enabled.


- **Verify checksum of in-file delta files during restore**

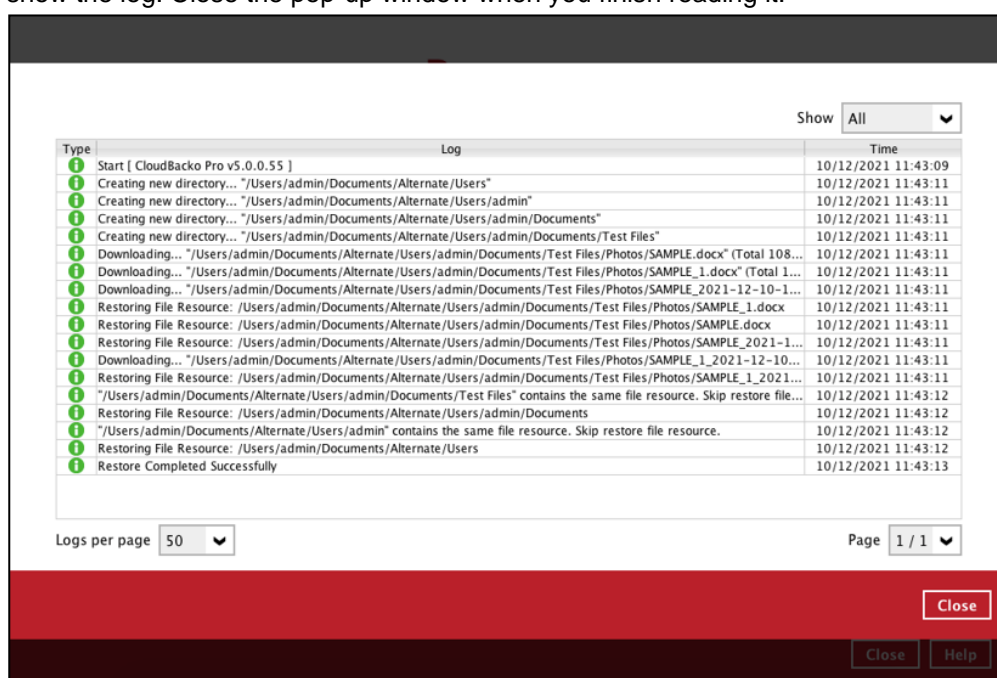
Verify checksum of in-file delta files during restore is disabled by default. You can enable the feature by ticking the checkbox so that the checksum of in-file delta files will be verified. As the feature will make the restore process time longer, it is recommended to enable the feature only if you want to verify whether the merged files were correct.


Click **Restore** to start the restore job.

8. When the restore is completed, the progress bar will be green in color and the message “Restore Completed Successfully” will appear.



9. You can click the  **View** icon on the right-hand side to check the log. A window will pop up to show the log. Close the pop-up window when you finish reading it.



10. In the Restore window, click **Cancel** to close the Restore window.
11. To exit CloudBacko Pro, click the  on the top left corner. A message will appear to ask for your confirmation. Click **Yes** to close the application. If you wish to use CloudBacko Pro again, you will then have to launch it again.

11.2 Restore Filter

This search feature allows you to search directories, files, and folders.

To make it more flexible, the search feature offers filtering. You can add additional pattern upon searching. Pattern includes the following criteria:

- ▶ **Contains**
These are Directories, Files, and Folders with the name containing the specific letter or word.
- ▶ **Exact**
These are Directories, Files, and Folders with the exact or accurate name.
- ▶ **Start With**
These are Directories, Files, and Folders with the name starting with a specific letter or word.
- ▶ **Ends With**
These are Directories, Files, and Folders with the name ending with a specific letter or word.

It also has the **Match Case** function, which serves as an additional accuracy when searching for any specific directories, files, folders, and mails.

For more detailed examples using the restore filter on CloudBacko Pro, refer to [Appendix B: Example Scenarios for Restore Filter](#).

1. Login to CloudBacko Pro application according to the instructions in [Chapter 6 Start CloudBacko Pro](#).
2. Click the **Restore** icon on the main interface of CloudBacko Pro.
3. In the next page, you will have several options to select. On this page, you may select the **Backup Set** to restore, as well as the **Destination** to which the data will be restored to.

You may also choose the temporary directory for restoring files by selecting the directory under **Temporary directory for storing restore files**.

Select From Where To Restore

Select a backup set

File-1
▼

Select a destination

Local-1
▼

Temporary directory for storing restore files

Browse

Next
Close

4. Click **Search** located on the lower left side of the screen.

Select Your Files To Be Restored

Select what to restore

Choose from files as of job
▼

01/02/2025
▼

Latest
▼

Show filter

Folders	Name	Size	Date modified
<div style="border: 1px solid #ccc; padding: 5px;"> <div style="display: flex; align-items: flex-start;"> <div style="margin-bottom: 5px;"> <div style="background-color: #f0f0f0; padding: 2px 5px;">Local-1</div> <div style="margin-left: 10px;"> <div style="background-color: #f0f0f0; padding: 2px 5px;">/</div> <div style="margin-left: 10px;"> <div style="background-color: #f0f0f0; padding: 2px 5px;">Applications</div> <div style="background-color: #f0f0f0; padding: 2px 5px;">Users</div> </div> </div> </div> </div> </div>	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <input type="checkbox"/> </div> <div> <div style="background-color: #f0f0f0; padding: 2px 5px;">/</div> </div> </div> </div>		

Search

Items per page 50 ▼
Page 1 / 1 ▼

Previous
Next
Cancel

- Click the **Change** button to select the path where to look for items to be restored.

Search

Look in Change

☒ Search subfolders

Kind Type Pattern ☐ Match case

Files and Directories contains

Search

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page 50

Page -

OK Cancel Help

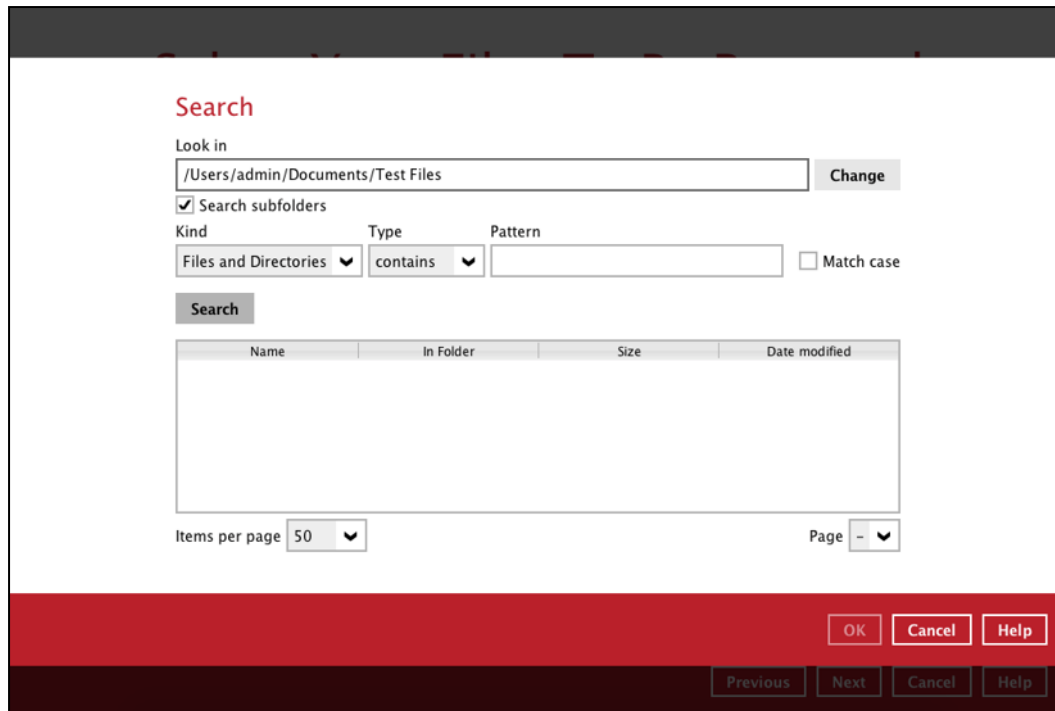
Previous Next Cancel Help

Change Path

The screenshot shows a 'Change Path' dialog box. The file tree structure is as follows:

- Backup Server
 - /
 - Users
 - admin
 - Documents
 - Test Files

The 'Test Files' folder is selected. At the bottom right of the dialog are 'OK' and 'Cancel' buttons. At the bottom of the window are 'Previous', 'Next', 'Cancel', and 'Help' buttons.



6. Tick **Search subfolders** to include available subfolders upon searching.

☐ Search subfolders

☒ Search subfolders

7. Select from the following Kind of files you want to search.

- Files and Directories
- Files only
- Directories

8. Select from the following Type of filtering you want to search.

- Contains
- Exact
- Starts With
- Ends With

9. Enter a pattern you want and tick the **Match case** box if you want to accurately search for a specific file.

Pattern

☒ Match case

10. Click the **Search** button and the result will be displayed.

Search

11. Check all the items or check a specific item that you want and click the **OK** button to proceed and you will return to the restore main screen.

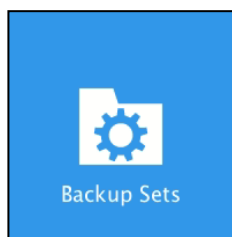
12 Mobile Backup and Restore to Cloud


To do a mobile backup and restore to Cloud, follow these steps:

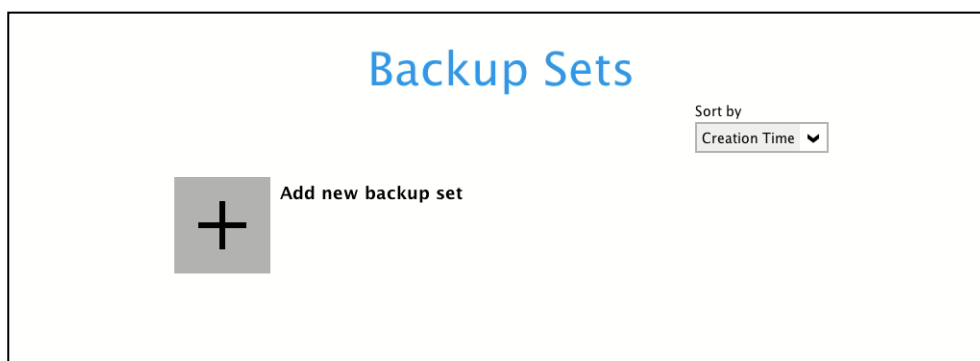
- Backup photos, videos, documents and 2FA accounts from CloudBacko app to CloudBacko Pro local destination. For more detailed information, check the [CloudBacko app guide](#).
- [Create a File Backup Set](#) on CloudBacko Pro and follow these steps:
 - Backup source should be photos, videos, documents and 2FA accounts backed up in CloudBacko Pro local destination.
 - Backup destination should be a Cloud destination. Examples: Google Drive, OneDrive, Wasabi, etc.
- [Run a Backup Job](#) on CloudBacko Pro.
- [Restore Data](#) on CloudBacko Pro. This can be from Original or Alternate location.

12.1 Create a File Backup Set

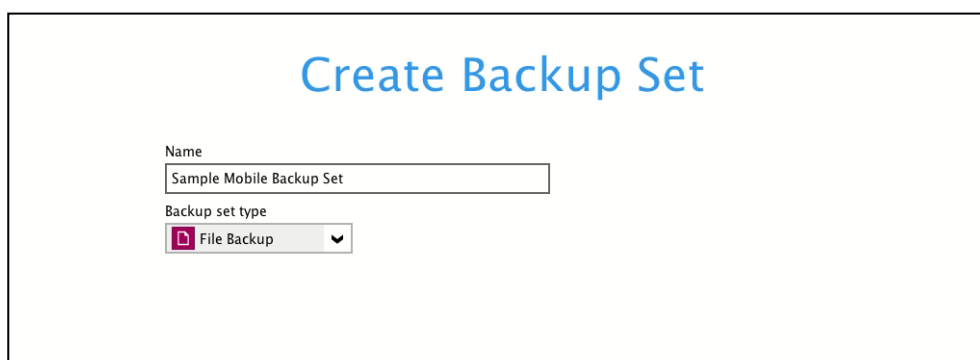
1. Click the **Backup Sets** icon on the main interface of CloudBacko Pro.



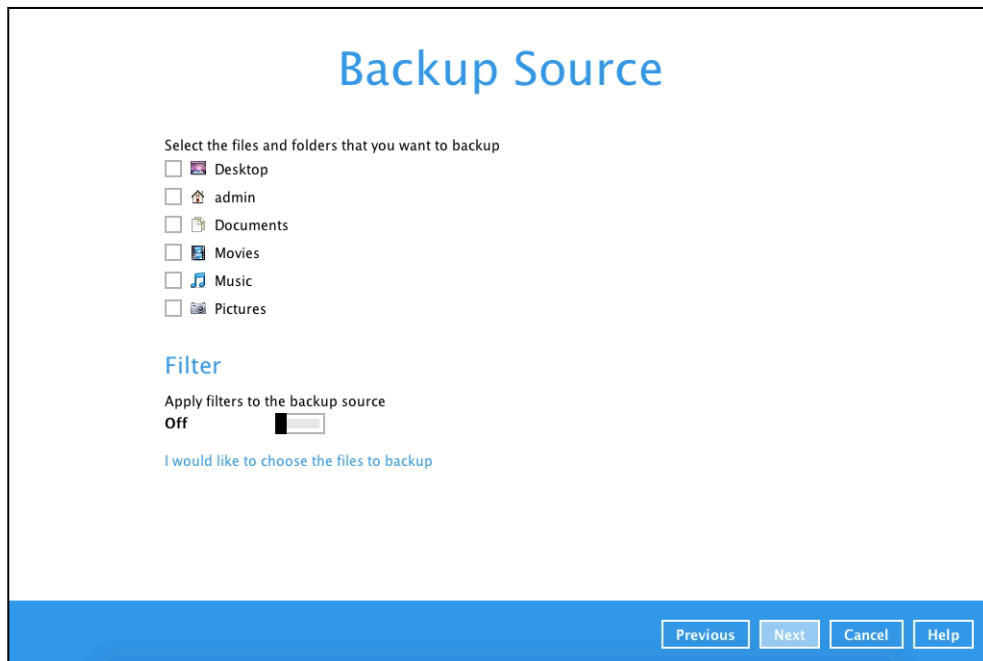
2. Create a new backup set by clicking  next to **Add new backup set**.



3. When the Create Backup Set window appears, name your new backup set, and select the **File Backup** set type. Then, click **Next** to proceed.

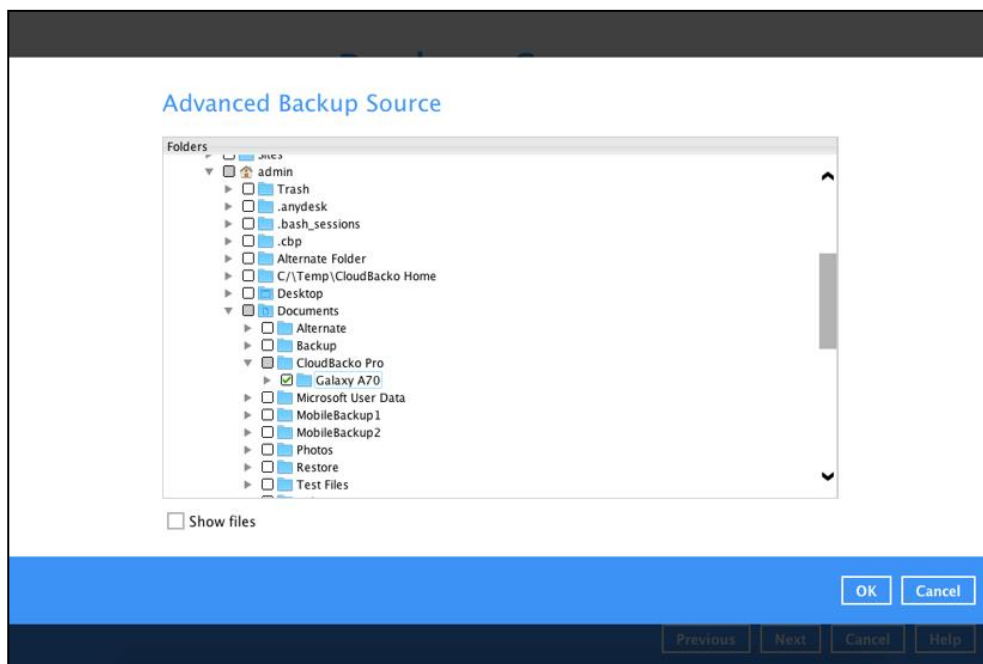


4. In the Backup Source window, select the mobile backup source for backup. Click **I would like to choose the files to backup**.

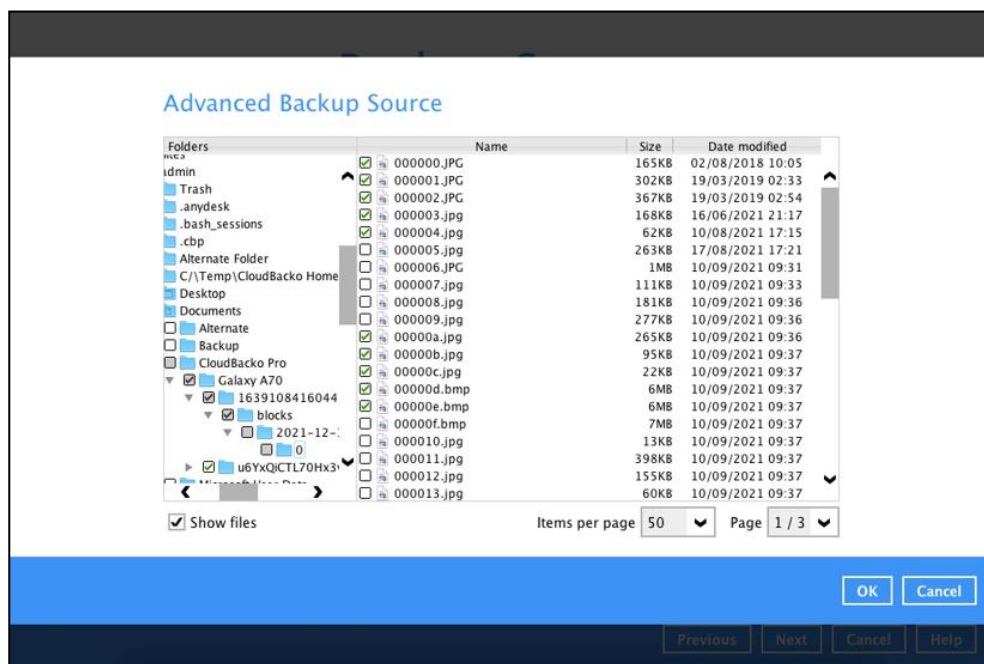


In the **Advanced Backup Source** window, select the mobile backup source.

In this example, Redmi folder is selected. The mobile backup source is in **/Users/admin/Documents/CloudBacko Pro**.



Alternatively, if you want to back up only specific files instead of all files in your selected folder(s), select the **Show files** checkbox at the bottom of the screen. A list of files will appear on the right-hand side. Select the checkbox(es) next to the file(s) to back up. Then, click **OK** to save your selections and close the Advanced Backup Source window.



In the Backup Source window, click **Next** to proceed.

- Follow steps [8 – 17](#) discussed in Chapter 8 to finish creating the backup set.

12.2 Run a Backup Job

To backup your mobile data to the cloud please refer to the instructions in [Chapter 10](#) and select the backup set that you created in Chapter 12.1.

12.3 Restore Data

There are two (2) options to restore data from Cloud storage to the mobile device, Original location, and Alternate location.

- Original location, data will be restored on the original location which is the **backup destination for your mobile device**.

Using this option, you can perform seamless restore to your mobile device as the location is the same with the mobile backup destination.

- Alternate location, data will be restored on an alternate location which can be setup anywhere in the CloudBacko Pro local machine. If you choose this option then restoring to your mobile device will have to be manually done. There are two (2) options available:

Option 1: Copy the restored data from alternate location to original location which is the **backup destination for your mobile device**. You can now use the CloudBacko app to restore the photos, videos, documents and 2FA accounts back to your mobile device.

Option 2: Copy the restored data from the alternate location to your Android or iOS mobile device.

Examples:

For an Android device, you need to plug your cable and transfer the restored data from the alternate location to your mobile device storage.

For an iOS device, you need to transfer the restored data from the alternate location to iCloud.

Restore to alternate location is not supported on another CloudBacko Pro machine. Options 1 and 2 must be on the original machine where the backups were performed.

In case the original machine is no longer available, CloudBacko Pro will be able to restore the photos, videos, documents and 2FA accounts from the Cloud destination to the mobile backup destination folder. However, as the mobile devices were not originally paired with the new installation or machine, the mobile devices will not be able to restore the photos, videos, documents and 2FA accounts from the CloudBacko Pro.

12.3.1 Original Location

To restore data from the Cloud storage to the mobile device using Original location, please refer to instructions in [Chapter 11.1](#).

Then you can restore the restored data from the original location to your mobile device by using the CloudBacko app.

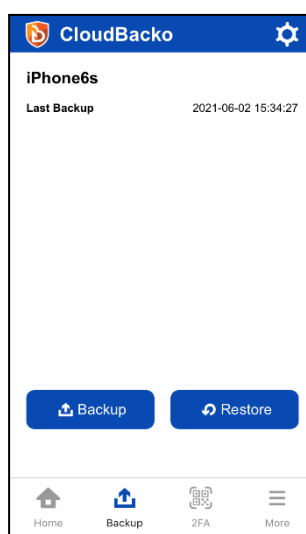
Example: Original location is in /Users/admin/Documents/CloudBacko Pro

Name	Date Modified	Size	Kind
Alternate	Today, 11:43	--	Folder
Backup	Today, 11:39	--	Folder
CloudBacko Pro	Today, 12:05	--	Folder
Galaxy A70	Today, 11:54	--	Folder
1639108416044	Today, 11:54	--	Folder
blocks	Today, 12:01	--	Folder
2021-12-10-11-54-07	Today, 11:54	--	Folder
0	Today, 12:01	--	Folder
000000.JPG	2 Aug 2018, 10:05	169 KB	JPEG image
00000a.jpg	10 Sep 2021, 09:36	271 KB	JPEG image
00000b.jpg	10 Sep 2021, 09:37	97 KB	JPEG image
00000c.jpg	10 Sep 2021, 09:37	23 KB	JPEG image
00000d.bmp	10 Sep 2021, 09:37	6.3 MB	Windo...image
00000e.bmp	10 Sep 2021, 09:37	5.9 MB	Windo...image

Android device



iOS device



12.3.2 Alternate Location

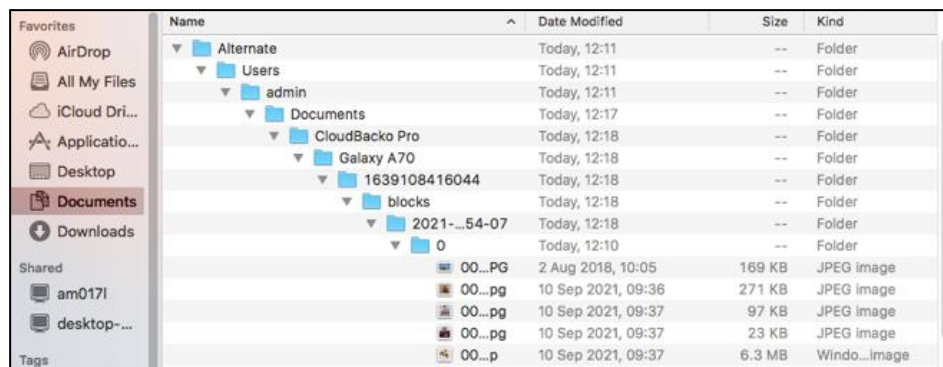
To restore data from the Cloud storage to the mobile device using Alternate location, please refer to instructions in [Chapter 11.1](#).

Then follow these steps to restore the restored data from the alternate location to your mobile device. To do this there are two (2) options:

Option 1: Copy the restored data from alternate location to original location which is the **backup destination for your mobile device**.

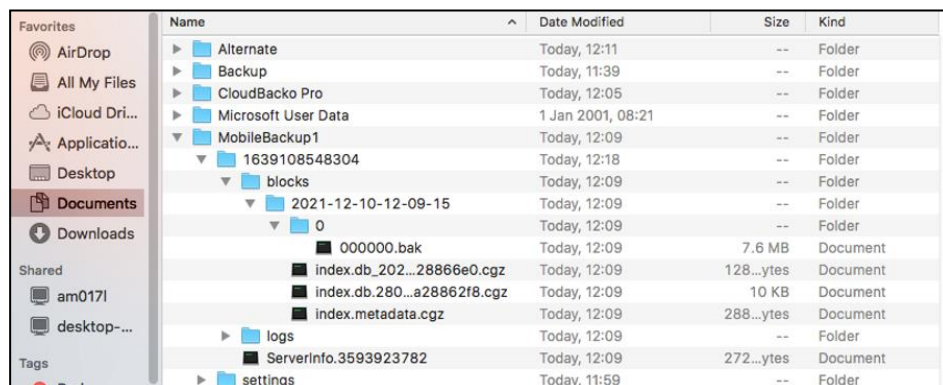
Example:

Alternate location is in /Users/admin/Documents/Alternate



Name	Date Modified	Size	Kind
Alternate	Today, 12:11	--	Folder
Users	Today, 12:11	--	Folder
admin	Today, 12:11	--	Folder
Documents	Today, 12:17	--	Folder
CloudBacko Pro	Today, 12:18	--	Folder
Galaxy A70	Today, 12:18	--	Folder
1639108416044	Today, 12:18	--	Folder
blocks	Today, 12:18	--	Folder
2021-12-10-12-09-15	Today, 12:18	--	Folder
0	Today, 12:10	--	Folder
00...PG	2 Aug 2018, 10:05	169 KB	JPEG image
00...pg	10 Sep 2021, 09:36	271 KB	JPEG image
00...pg	10 Sep 2021, 09:37	97 KB	JPEG image
00...pg	10 Sep 2021, 09:37	23 KB	JPEG image
00...p	10 Sep 2021, 09:37	6.3 MB	Windo...image

Original location is in /Users/admin/Documents/MobileBackup1



Name	Date Modified	Size	Kind
Alternate	Today, 12:11	--	Folder
Backup	Today, 11:39	--	Folder
CloudBacko Pro	Today, 12:05	--	Folder
Microsoft User Data	1 Jan 2001, 08:21	--	Folder
MobileBackup1	Today, 12:09	--	Folder
1639108548304	Today, 12:18	--	Folder
blocks	Today, 12:09	--	Folder
2021-12-10-12-09-15	Today, 12:09	--	Folder
0	Today, 12:09	--	Folder
000000.bak	Today, 12:09	7.6 MB	Document
index.db_202...28866e0.cgz	Today, 12:09	128...ytes	Document
index.db_280...a28862f8.cgz	Today, 12:09	10 KB	Document
index.metadata.cgz	Today, 12:09	288...ytes	Document
logs	Today, 12:09	--	Folder
ServerInfo.3593923782	Today, 12:09	272...ytes	Document
settings	Today, 11:59	--	Folder

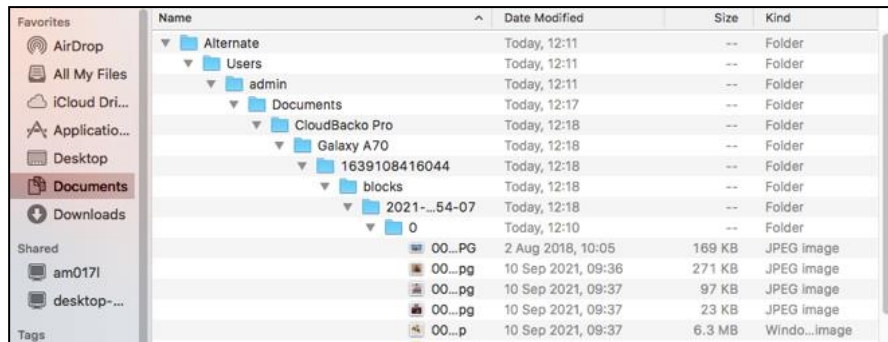
You can now use the CloudBacko app to restore the photos, videos, documents and 2FA accounts back to your mobile device.

Option 2: Copy the restored data from the alternate location to your Android or iOS mobile device.

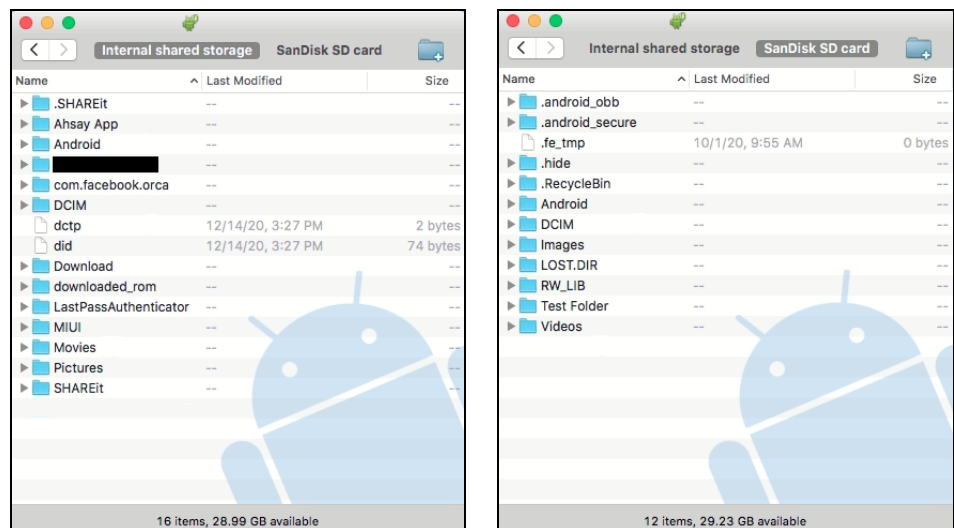
Examples:

- For an Android device, you need to plug your cable and transfer the restored data from the alternate location to your mobile device storage.

Alternate location is in /Users/admin/Documents/Alternate

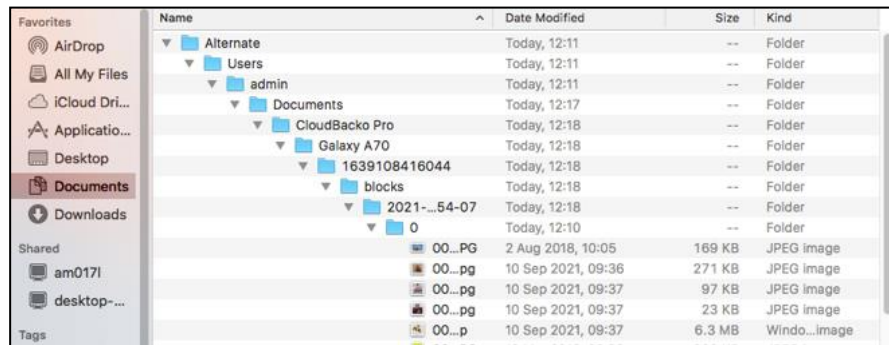


Mobile device storage: Internal shared storage and SD Card

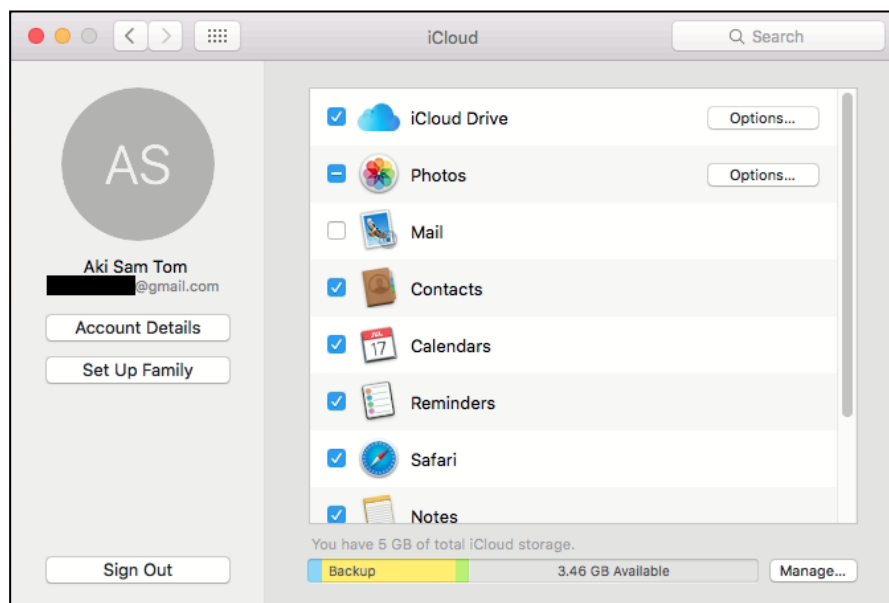


- For an iOS device, you need to transfer the restored data from the alternate location to iCloud.

Alternate location is in /Users/admin/Document/Alternate



Upload to iCloud.



13 Contact CloudBacko

Technical Assistance

To contact CloudBacko support representatives for technical assistance, please visit the Contact Us page to submit a support ticket:

<https://www.cloudbacko.com/support>

Use the CloudBacko Wiki for resource such as Hardware Compatibility List, Software Compatibility List, and other product information. To also check available documentations and hotfix please visit the [Support page](#).

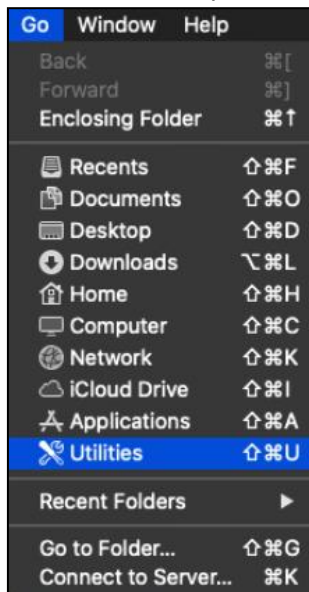
Appendix

Appendix A: Uninstall CloudBacko Pro

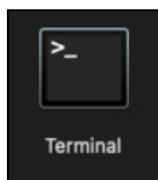
Before you uninstall CloudBacko Pro, it is recommended that you make a backup of your current CloudBacko settings, using the **Utilities > Ex/Import Settings > Export Now** feature to get a copy of the latest **settings.sys** file. For more information, please check [Chapter 7.8.3 Ex/Import Settings](#).

Otherwise, if you intend to re-install CloudBacko Pro either on the same machine or a new machine, you will lose your current settings and access to any backed-up data.

1. Click **Go** at the top menu bar and then select **Utilities**.



2. Double-click the Terminal.app icon.



3. Use the command highlighted in **red** to enter the Applications folder.

```
#cd /Applications
#[user]-Mac-mini:Applications [user]$
```

4. Use the command highlighted in **red** to enter the CloudBacko Pro folder.

```
#[user]-Mac-mini:Applications [user]$ cd CloudBacko\ Pro.app/bin
#[user]-Mac-mini:bin [user]$
```

5. Use the command highlighted in **red** to execute the uninstallation. Enter the password for logging in to your Mac when prompted.

```
#[user]-Mac-mini:bin [user]$sudo sh uninstall.sh
#Password:
```

6. The following scripts show when the uninstallation is completed.

```
#Shutdown Scheduler for CloudBacko Pro

#Wait 5 seconds before Scheduler exits

#Kill Process by Image Name:/Applications/CloudBacko
Pro.app/jvm/bin/bJW

#Ignore Process by Image Name:

#Kill Process by Image Name: /Applications/ CloudBacko Pro.app
/jvm/bin/bschJW

#Ignore Process by Image Name:

#Kill Process by Image Name: /Applications/ CloudBacko Pro.app
/jvm/bin/java

#Ignore Process by Image Name:

#Remove LaunchDaemons for com.CloudBackoPro.scheduler from
service

#Remove CloudBacko Pro from Your Mac OS X

#[user]-Mac-mini:bin [user]$
```

Appendix B: Example Scenarios for Restore Filter

Example No.1: Restore filter setting from /Users/admin/Documents/TestFiles with filter type Contains

Location:	/Users/admin/Documents/TestFiles
Search subfolders:	True
Kind:	Files and Directories
Type:	Contains
Pattern:	Set
Match Case:	True

Follow the step-by-step procedure indicated in [Restore Filter](#).

The screenshot displays the 'Search' window in CloudBacko. At the top, the title 'Search' is in red. Below it, the 'Look in' field contains the path '/Users/admin/Documents/TestFiles' with a 'Change' button to its right. A checked checkbox labeled 'Search subfolders' is present. The 'Kind' dropdown is set to 'Files and Directories', the 'Type' dropdown is set to 'contains', and the 'Pattern' field contains 'Set'. A checked checkbox for 'Match case' is also visible. A 'Search' button is located below these settings. Underneath is a table with four columns: 'Name', 'In Folder', 'Size', and 'Date modified'. At the bottom left, 'Items per page' is set to 50. At the bottom right, 'Page' is set to 1. A red bar at the bottom contains 'OK' and 'Cancel' buttons. Below this bar, 'Previous', 'Next', and 'Cancel' buttons are visible.

Search

Look in
 Change

☒ Search subfolders

Kind Type Pattern

☒ Match case

Searching ... Stop

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page Page

OK Cancel

Search

Look in Change

☒ Search subfolders

Kind Type Pattern ☒ Match case

Search

	Name	In Folder	Size	Date modified
<input type="checkbox"/>	BackupSet_001.txt	/Users/admin/Documents/TestFiles	56KB	11.04.2019 00:00
<input type="checkbox"/>	BackupSet_002.txt	/Users/admin/Documents/TestFiles	56KB	11.04.2019 00:00
<input type="checkbox"/>	BackupSet_003.txt	/Users/admin/Documents/TestFiles	56KB	11.04.2019 00:00
<input type="checkbox"/>	BackupSet_004.txt	/Users/admin/Documents/TestFiles	56KB	11.04.2019 00:00
<input type="checkbox"/>	BackupSet_005.txt	/Users/admin/Documents/TestFiles	56KB	11.04.2019 00:00

Items per page Page

OK Cancel

Previous Next Cancel

Explanation:

All files and directories under /Users/admin/Documents/TestFiles that has the pattern that contains with 'Set' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the file or directory, Directory which are indicated In-Folder column, Size, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. Meaning, the filter will include all available subfolders in \TestFiles upon searching. And it will strictly search only the specified pattern and case which starts with 'Set'.

Example No.2: Restore filter setting from /Users/admin/Documents/TestFiles with filter type Starts With

Location:	/Users/admin/Documents/TestFiles
Search subfolders:	True
Kind:	Files
Type:	Starts With
Pattern:	A
Match Case:	True

Follow the step-by-step procedure indicated on [Restore Filter](#).

Search

Look in
 Change

☒ Search subfolders

Kind: Files only | Type: starts with | Pattern: A | ☒ Match case

Search

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page: 50 | Page: 1 / 1

OK Cancel

Previous Next Cancel

Search

Look in
 Change

☒ Search subfolders

Kind Type Pattern

Files only ▼ starts with ▼ ☒ Match case

Searching ... Stop

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page 50 ▼ Page 1 / 1 ▼

OK Cancel

Previous Next Cancel

Search

Look in

Change

☒ Search subfolders

Kind

Type

Pattern

Files only

starts with

A

☒ Match case

Search

	Name	In Folder	Size	Date modified
<input type="checkbox"/>	AlertMessage0001.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0002.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0003.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0004.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0005.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	Attendance_2014.doc	/Users/admin/Documents/TestFiles	14MB	20.08.2019 00:00
<input type="checkbox"/>	Attendance_2015.doc	/Users/admin/Documents/TestFiles	14MB	20.08.2019 00:00
<input type="checkbox"/>	Attendance_2016.doc	/Users/admin/Documents/TestFiles	14MB	20.08.2019 00:00

Items per page

50

Page

1 / 1

Explanation:

All files and directories under /Users/admin/Documents/TestFiles that has the pattern that starts with 'A' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the file, Directory which are indicated In-Folder column, Size, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. Meaning, the filter will include all available subfolders in \TestFiles upon searching. And it will strictly search only the specified pattern and case which starts with 'A'.

Example No.3: Restore filter setting from /Users/admin/Documents/TestFiles with filter type Ends With

Location:	/Users/admin/Documents/TestFiles
Search subfolders:	True
Kind:	Files and Directories
Type:	Ends With
Pattern:	g
Match Case:	True

Follow the step-by-step procedure indicated on [Restore Filter](#).

The screenshot displays the 'Search' window in CloudBacko. The 'Look in' field is set to '/Users/admin/Documents/TestFiles' with a 'Change' button. The 'Search subfolders' checkbox is checked. The 'Kind' is set to 'Files and Directories', 'Type' is 'ends with', and 'Pattern' is 'g'. The 'Match case' checkbox is also checked. A 'Search' button is present. Below these settings is a table with columns: Name, In Folder, Size, and Date modified. At the bottom of the search area, 'Items per page' is set to 50 and 'Page' is 1 / 1. A red bar at the bottom contains 'OK' and 'Cancel' buttons. The footer of the application shows 'Previous', 'Next', and 'Cancel' buttons.

Search

Look in
 Change

☒ Search subfolders

Kind: Files and Directories Type: ends with Pattern: ☒ Match case

Searching ... Stop

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page: 50 Page: 1 / 1

OK Cancel

Search

Look in

Change

☒ Search subfolders

Kind Type Pattern

Files and Directories

ends with

g

☒ Match case

Search

	Name	In Folder	Size	Date modified
<input type="checkbox"/>	AlertMessage0001.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0002.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0003.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0004.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00
<input type="checkbox"/>	AlertMessage0005.jpg	/Users/admin/Documents/TestFiles	490KB	11.04.2019 00:00

Items per page

50

Page

1 / 1

Explanation:

All files and directories under /Users/admin/Documents/TestFiles that has the pattern that ends with 'g' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the files and directories, Directory which are indicated In-Folder column, Size, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. Meaning, the filter will include all available subfolders in \TestFiles upon searching. And it will strictly search only the specified pattern and case which starts with 'q'.

Example No.4: Restore filter setting from /Users/admin/Documents/TestFiles with filter type Exact

Location:	/Users/admin/Documents/TestFiles
Search subfolders:	True
Kind:	Files and Directories
Type:	Exact
Pattern:	SpreadSheet_05.xlsx
Match Case:	True

Follow the step-by-step procedure indicated on [Restore Filter](#).

Search

Look in
 Change

☒ Search subfolders

Kind: Files and Directories ▼ Type: exact ▼ Pattern: ☒ Match case

Search

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page: 50 ▼ Page: 1 / 1 ▼

OK Cancel

Previous Next Cancel

Search

Look in
 Change

☒ Search subfolders

Kind Type Pattern

☒ Match case

Searching ... Stop

Name	In Folder	Size	Date modified
------	-----------	------	---------------

Items per page Page

OK Cancel

Previous Next Cancel

Search

Look in

Change

☒ Search subfolders

Kind Type Pattern

Files and Directories


▼

exact

▼

☒ Match case

Search

	Name	In Folder	Size	Date modified
<input type="checkbox"/>	 SpreadSheet_05.xlsx	/Users/admin/Documents/TestFiles	8KB	20.08.2019 00:00

Items per page 50 ▼

Page 1 / 1 ▼

OK

Cancel

Explanation:

All files and directories under /Users/admin/Documents/TestFiles that has the pattern that has the exact pattern 'SpreadSheet_05.xlsx' with match case set to true will be included upon performing search.

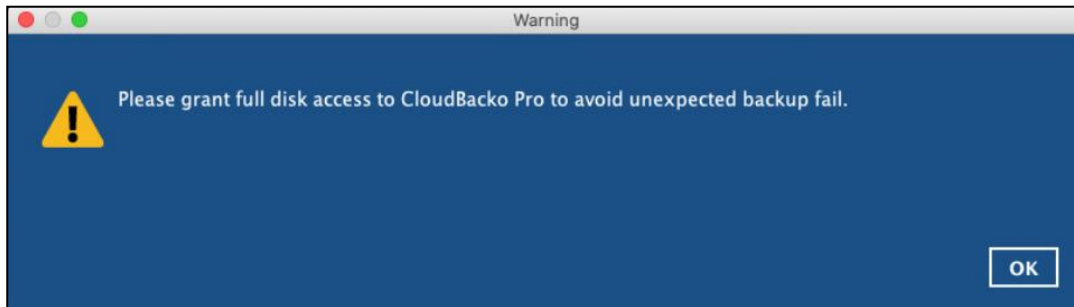
As you can see on the screen shot above, the result panel contains the Name of the files and directories, Directory which are indicated In-Folder column, Size, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. Meaning, the filter will include all available subfolders in \TestFiles upon searching. And it will strictly search only the specified pattern and case which starts with 'SpreadSheet 05.xlsx'.

Appendix C: Setting up Full Disk Access Permission

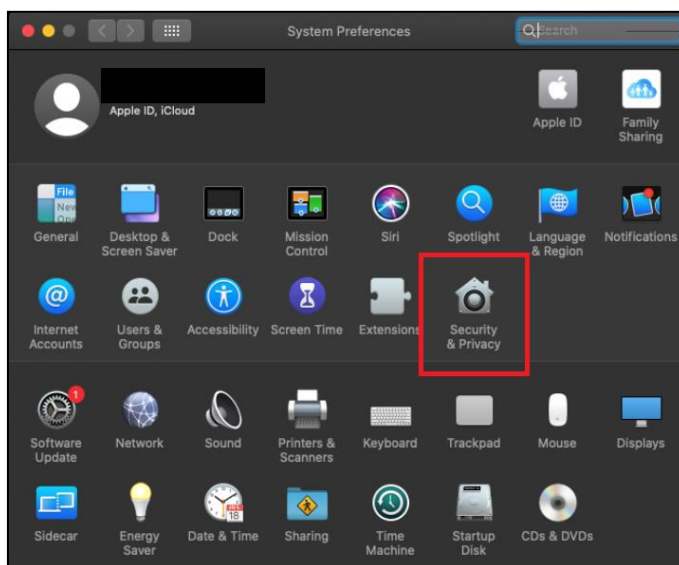
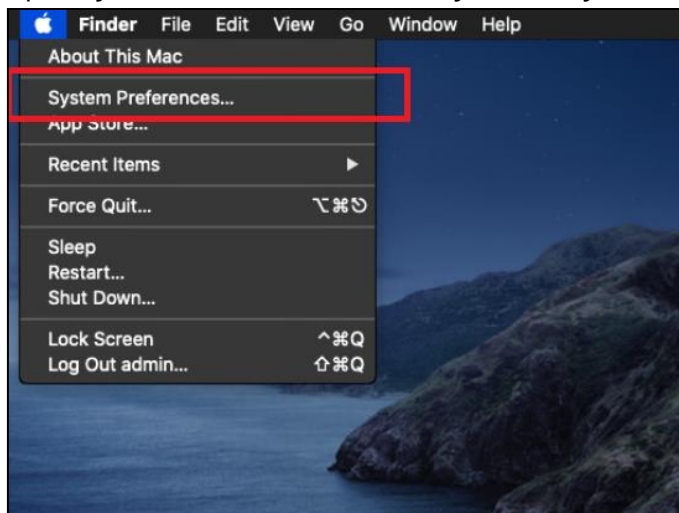
What is Full Disk Access? Full Disk Access is a new security feature in macOS 10.15 or higher that requires some applications to be given full permission to access your protected files and have certain administrative settings available.

If CloudBacko Pro was launched without granting a full disk access, this warning message will appear. It is advisable to setup the permission before launching the CloudBacko Pro to avoid any unexpected backup and restore failure.

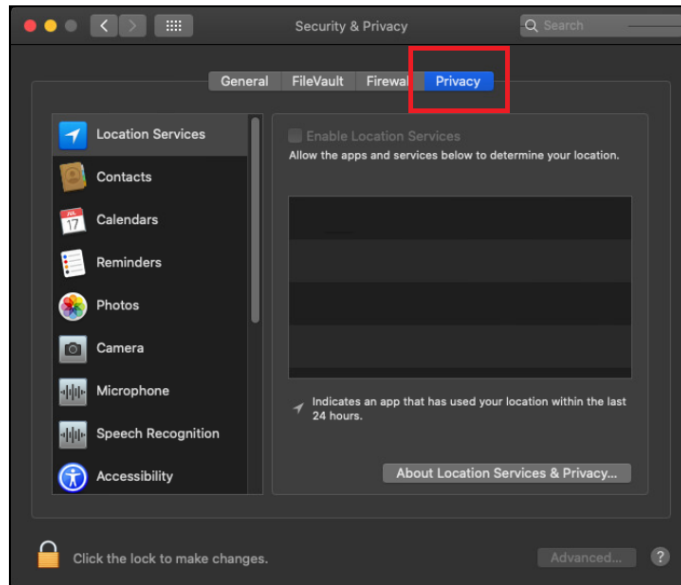


Here are the steps on how to setup and grant CloudBacko Pro a Full Disk Access:

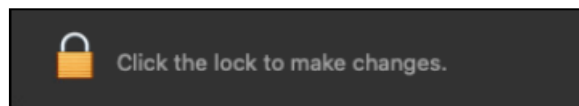
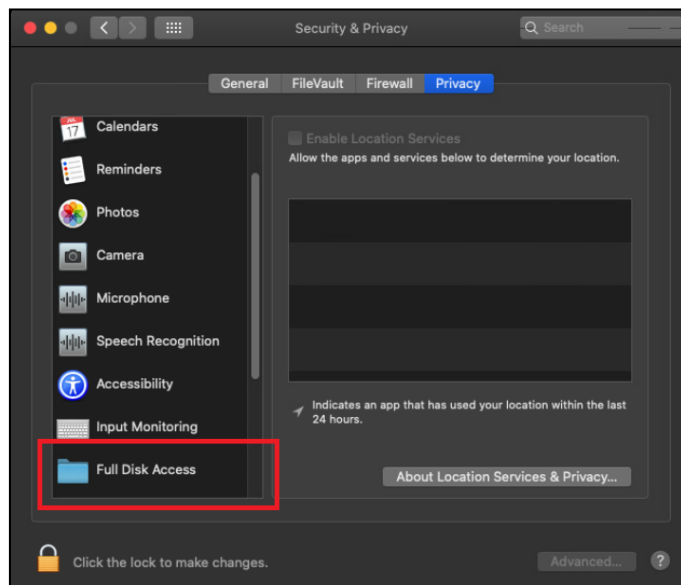
1. Open **System Preferences > Security & Privacy**.



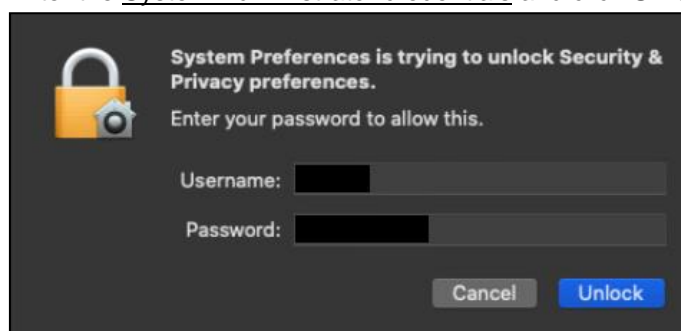
2. Select the **Privacy** tab.



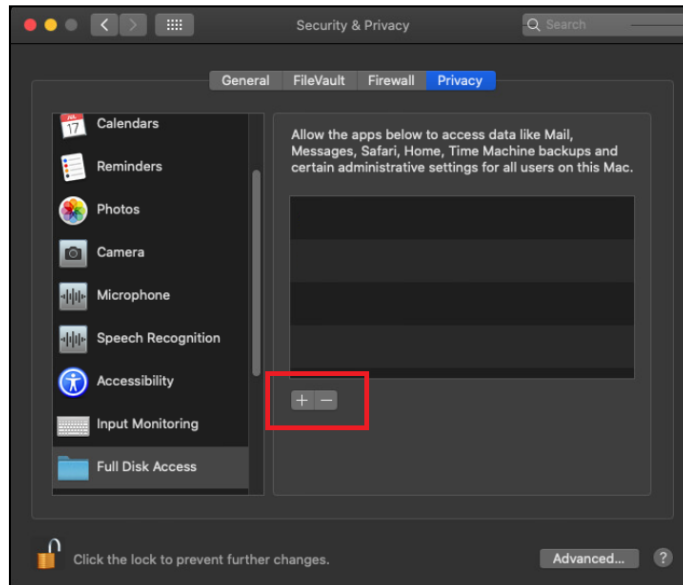
3. Select **Full Disk Access**, then click the lock icon.



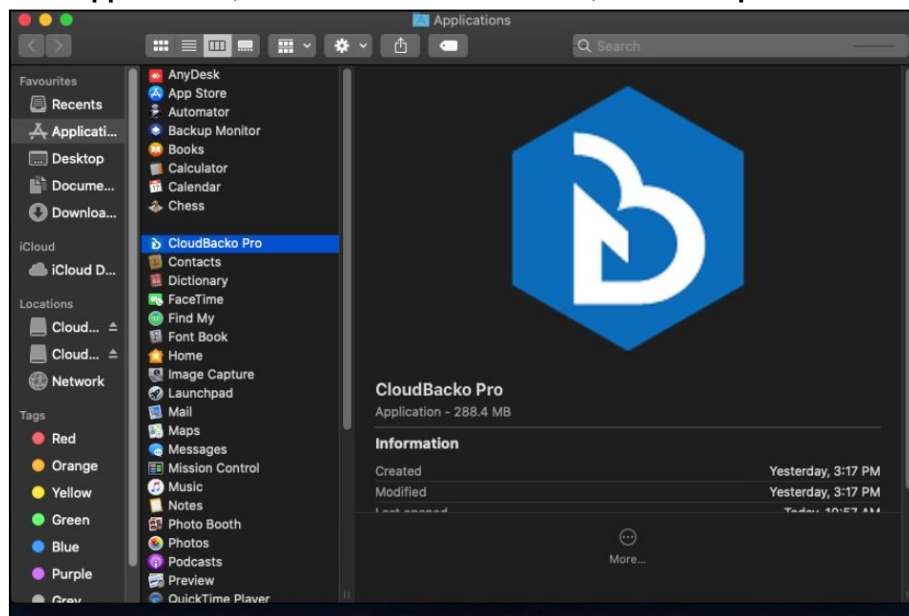
4. Enter the System Administrator credentials and click **Unlock**.



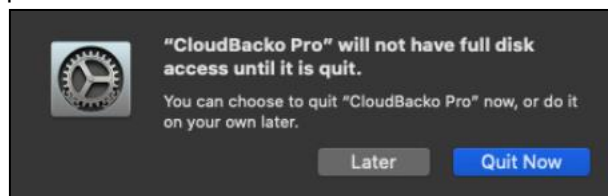
- Click the plus icon.



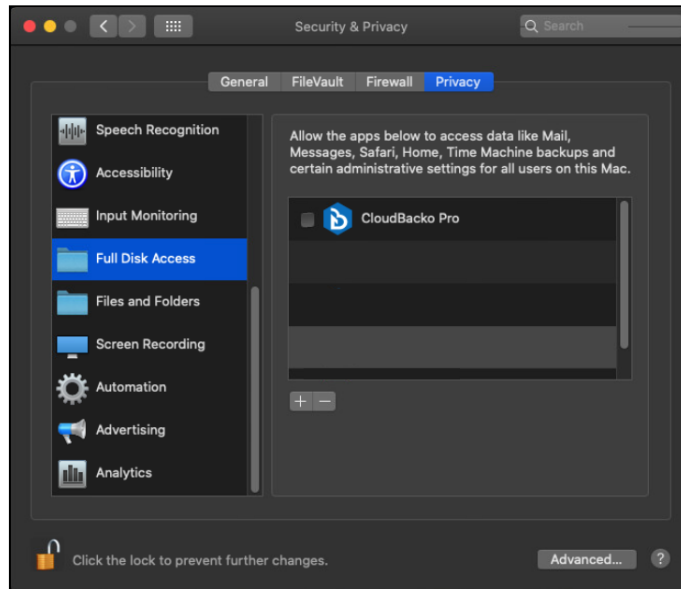
- Click **Applications**, then select **CloudBacko Pro**, and click **Open**.



This message will appear if you have the CloudBacko Pro open. Click **Quit Now** to proceed.



7. CloudBacko Pro has now Full Disk Access.



Appendix D: Exclude Filter System Files

If home for admin is selected, all files and/or folders located in **/Users/admin/** is recommended to include these folders to exclude from the backup source using the Exclude Filter.

/Users/admin/Library

/Users/admin/Download

/Users/admin/.Trash

/Users/admin/.bash_sessions

/Users/admin/.cbp

Backup Source

Select the files and folders that you want to backup

- ☒ Desktop
- ☒ admin
- ☒ Documents
- ☒ Movies
- ☒ Music
- ☒ Pictures

Filter

Apply filters to the backup source

Off ☐

[I would like to choose the files to backup](#)

Sample Backup Set

Backup Source

Name

For each of the matched files/folders under top directory

☐ Include them
☒ Exclude them

☐ Include all unmatched files/folders

Match file/folder names by

☒ Simple comparison contains
☐ Regular expression (UNIX-style)

Existing patterns to match

<input checked="" type="checkbox"/>	Library	X
<input checked="" type="checkbox"/>	Download	X
<input checked="" type="checkbox"/>	.Trash	X
<input checked="" type="checkbox"/>	.bash_sessions	X
<input checked="" type="checkbox"/>	.cbp	X

Delete this backup filter

Delete this backup set

Sample Backup Set

Backup Source

Regular Expression (UNIX style)

Existing patterns to match

Library

X

Download

X

.Trash

X

.bash_sessions

X

.cbp

X

Add

Apply this filter to all files/folders in

All hard disk drives

This folder only

/Users/admin

Change

Apply to

File

Folder

Delete this backup filter

OK

Cancel

Delete this backup set

Save

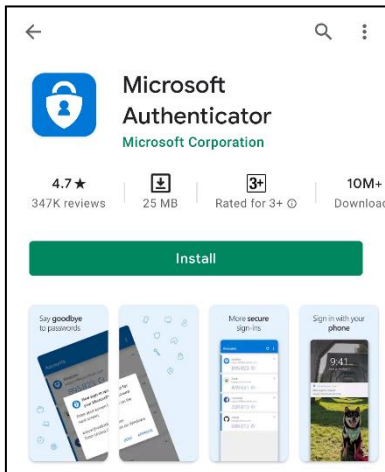
Cancel

Appendix E: Example Registration of Time-base One-time Password (TOTP) Authenticator app in CloudBacko app

The following are examples of how to register a TOTP authenticator app in the CloudBacko app

Microsoft Authenticator app

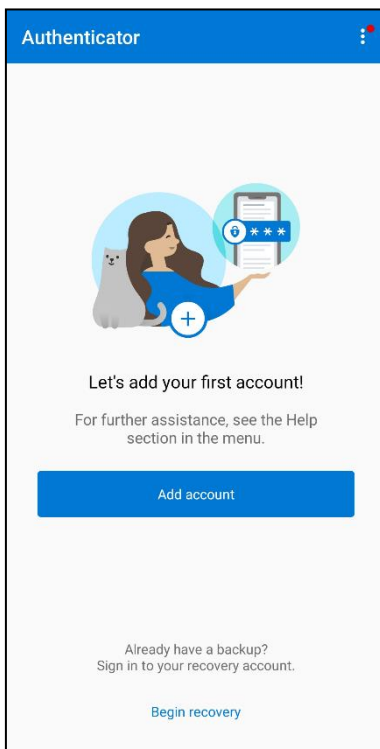
1. Download and install the Microsoft Authenticator from the Play Store for Android devices or the App Store for iOS devices.



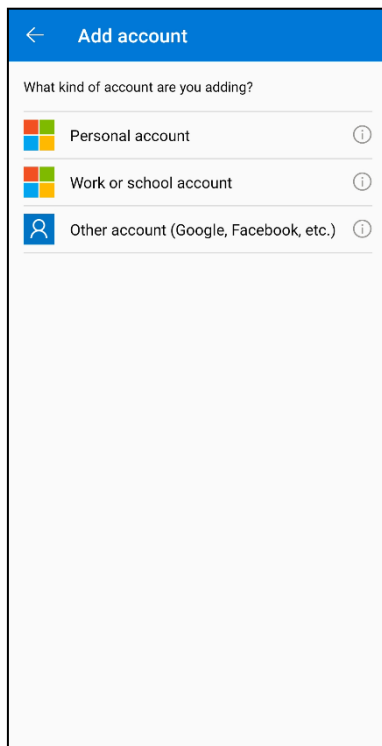
2. Launch the Microsoft Authenticator app.



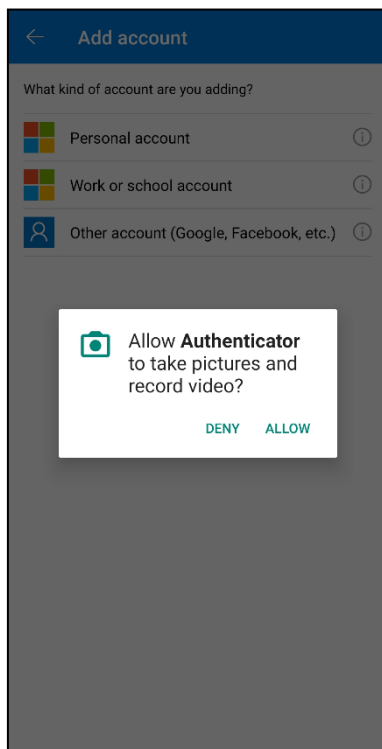
3. Tap **Add account**.



4. Select **Other account (Google, Facebook, etc.)**.



5. Allow permission to take pictures and record video.



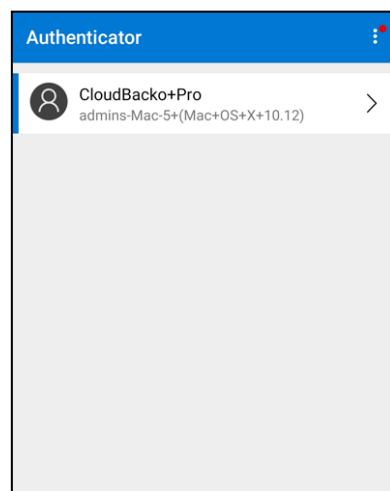
6. Setup the account. Select from the following methods: Scan the QR code or Enter a setup key.

Method 1: Scan the QR code

- i. Scan the QR code on CloudBacko Pro.

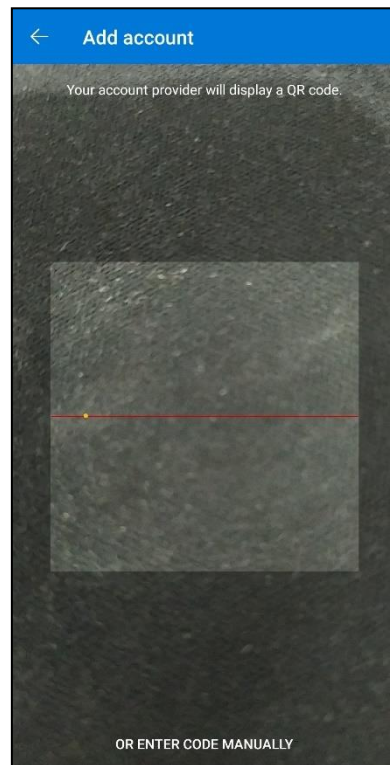


- ii. Account is successfully added to Microsoft Authenticator and registered the mobile device on CloudBacko Pro.

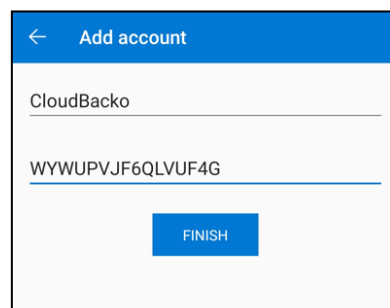


Method 2: Enter Code Manually

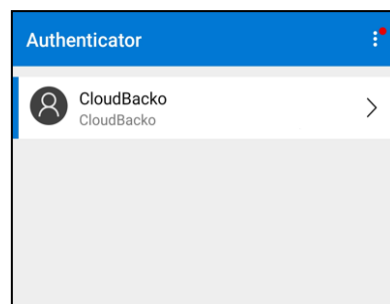
- i. Tap **OR ENTER CODE MANUALLY**.



- ii. Enter the account name and the key which is the Secret Key that is provided by CloudBacko Pro then tap **FINISH**.



- iii. Account is successfully added to Microsoft Authenticator.



- iv. In CloudBacko Pro, enter the display name and one-time password generated by the Microsoft Authenticator app. Click **Next** to proceed.

Settings **Password Lock**

App Download and Device Pairing

Please scan the QR code to get the below Mobile App from App Store. Once installed the Mobile App, launch it and scan the same QR code to complete the device registration.

CloudBacko

Secret Key: WYWU PVJF 6QLV UF4G

Enter one-time passcode generated from authenticator app

(00:00:16)

Display name:

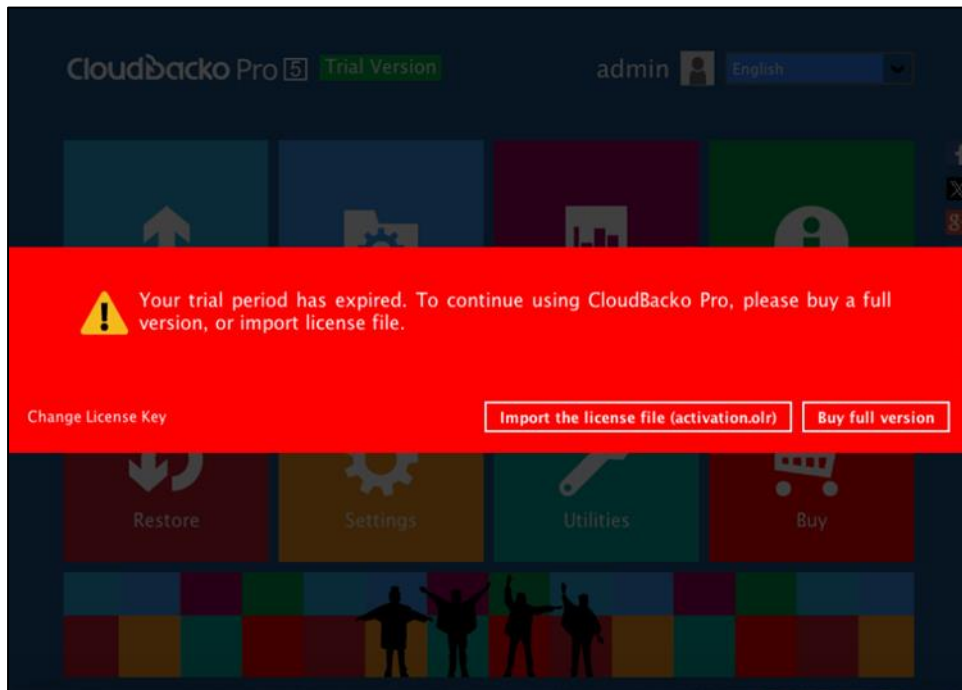
Cancel

Save **Cancel**

- v. Mobile device is successfully registered on CloudBacko Pro.

Appendix F: How to apply a license key to a CloudBacko Pro installation with an expired trial license?

1. Open CloudBacko Pro and click on “Change License Key”.



2. Enter your new license key and press **OK** to continue.

Change License Key

Enter a valid License Key

3. Once the new license key has been verified, press **Next** to continue.

Change License Key

Enter a valid License Key

✓ License key verified successfully

Next

An activation file will be sent to the email address registered during the license purchase immediately containing the license activation file.

4. Copy the “activation.olor” file to the CloudBacko machine. Using “Browse” to locate “activation.olor” file and press **Import** to continue.

Import the license file

Check “@.com” for an email titled “CloudBacko License Info” and import the attached License File to here

Browse

Import Cancel

5. Your new license key has now been successfully imported to your CloudBacko Pro installation and is ready to use.

Import the license file

Check "my_email@domain.com" for an email titled "CloudBacko License Info" and import the attached License File to here

✓ License key imported successfully

Appendix G: Where to find the CloudBacko Pro purchase license key?

1. Your CloudBacko Pro purchase license key is shown in the **Settings > License** page. For security reasons the CloudBacko Pro license key is only partially displayed on the application.

Settings

- Proxy
- Email Report
- License**
- Authentication
- Mobile Backup

License

License Key: bc03-49-****_*****
[Change License Key](#)

Mode: Online

Version: CloudBacko™ Pro v5 Full Version

Installations

Item	Allowed	Used (This computer)
CloudBacko Pro software	2	1 (1)
Cloud File Backup Module	0	0 (0)
IBM Lotus Domino Backup Module	0	0 (0)
IBM Lotus Notes Backup Module	0	0 (0)
Microsoft Exchange Server Backup...	0	0 (0)
Microsoft SQL Server Backup Mod...	0	0 (0)
Microsoft Hyper-V Backup Module	0	0 (0)
Microsoft Windows System Backu...	0	0 (0)
MySQL / MariaDB Backup Module	0	0 (0)
Office 365 Backup Module	0	0 (0)
Oracle Database Server Backup M...	0	0 (0)
VMware Backup Module	0	0 (0)

[Save](#) [Cancel](#)

2. You can verify the license key displayed is our purchase key by comparing it with the details of the license key and receipt no. in CloudBacko Pro under the **Report > Purchase** page. It is recommended to print a copy of the receipt for your records (If there is no purchase record then current license key is an evaluation key).

Report

- Backup
- Restore
- Usage
- Purchase**

Purchase Report

Select a purchase date
2021-12-02 16:58 [Go](#)

CloudBacko..

CloudBacko Corporation
28/F, Ford Glory Plaza, No.37 Wing Hong Street, Lai Chi Kok,
Kowloon
Hong Kong

OFFICIAL RECEIPT

Thank you for your payment. Your transaction has been completed. Below are the details of your purchase. Your order is charged in US Dollar (US\$). A copy of this receipt has been sent to your email [email address]@gmail.com

License Key : bc03-49-****_***** (Online)

Receipt Number : CC-97832

Paid Date : 2021-12-02
Payment Method : DIS


Contact Person : [Name]
Email : [email address]@gmail.com
Address : Valero Street, Makati City, Philippines

Description	Unit Price	Qty.	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99

[Close](#) [Help](#)

- The remaining part of the license key is email to you along with your official receipt at the time of purchase.

Please print a copy of the receipt and keep it in a safe place along with a copy of the invoice. In case you have to re-install CloudBacko Pro on another machine.



CloudBacko Corporation
28/F, Ford Glory Plaza, No.37 Wing Hong Street,
Lai Chi Kok, Kowloon, Hong Kong

Thank you for your payment. Your transaction has been completed. Below are the details of your purchase. Your order is charged in US Dollar (US\$). A copy of this receipt has been sent to your email valero@valero.com

OFFICIAL RECEIPT

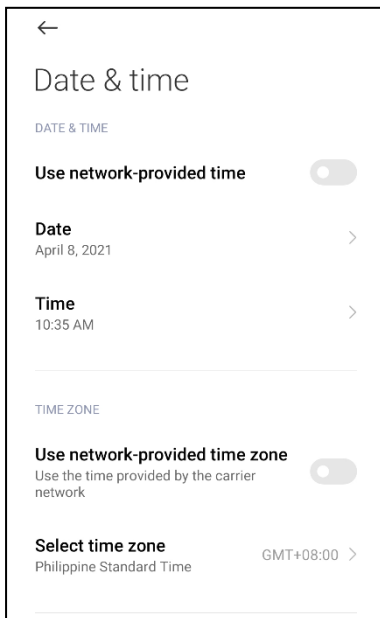
License Key:	*****_****_****-a1-c8e3 (Online)		
Receipt Number:	CC-97832	Contact Person:	
Paid Date:	2021-12-02	Email:	valero@valero.com
Payment Method:		Company Name:	
		Address:	Valero Street, Makati City, Philippines
		VAT:	

Description	Unit Price	Qty	Amount
1. CloudBacko™ Pro Basic Software	US\$99.00	1	US\$99
2. Fully covered coupon			Less US\$99
Total :			US\$0

Appendix H: Different Date, Time, and Time zone with CloudBacko Pro machine and mobile device

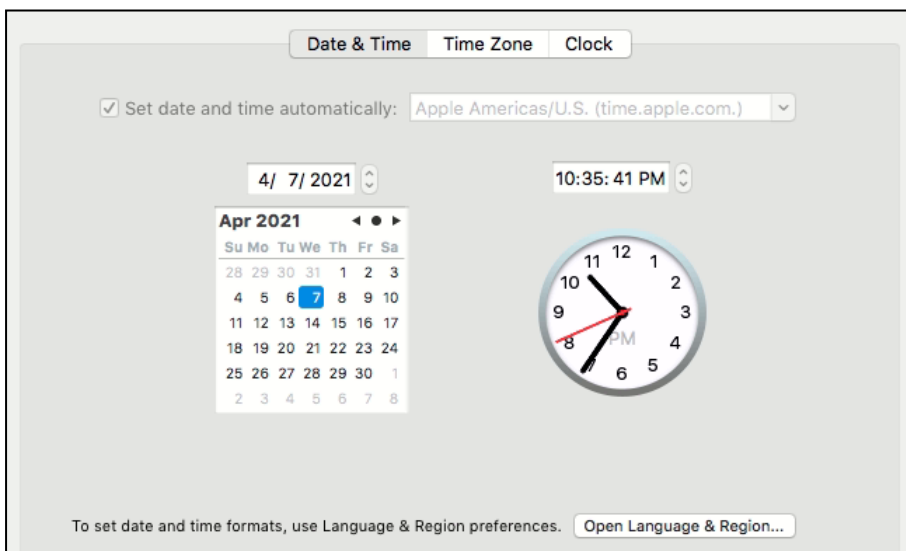
1. Check the date, time, and time zone in mobile device.

Example: Time zone settings of a mobile device used in the Philippines (time zone GMT+08:00).



2. Check the date, time, and time zone in CloudBacko Pro machine.

Example: Time zone settings of a macOS machine used in the Philippines (time zone Asia). However, the set time zone in the CloudBacko Pro machine is set incorrectly in America/USA.



3. Stop the scheduler service.

```
MacBook-Pro:bin admin$ sudo sh StopScheduler.sh
MacBook-Pro:bin admin$ ps -ef|grep java
504  2950  2938    0 10:44PM ttys000    0:00.01 grep java
```

4. Change the time zone in CloudBacko Pro machine. Follow the command in red.

```
[MacBook-Pro:~ admin$ sudo systemsetup -settimezone Asia/Manila
Set Timezone: Asia/Manila
```

5. Check the changed time zone in CloudBacko Pro machine.



6. Start the scheduler service.

```
MacBook-Pro:bin admin$ sudo sh Scheduler.sh
MacBook-Pro:bin admin$ ps -ef|grep java
0 2961 1 0 10:44PM ttys000 0:00.24 /Applications/CloudBacko
Pro.app/jvm/bin/java -Xms128m -Xmx768m -Djava.library.path=../MacX84
-cp ../cbs.jar cbs /Applications/CloudBacko Pro.app
504 2964 2938 0 10:44PM ttys000 0:00.00 grep java
```