



^{24/7} Backup Advanced Backup Manager (B247PRO) v9





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Revision History

Date	Descriptions	Version
25 January 2022	Ch. 9.5 – added Deduplication	9.1.0.0
	Ch. 12.2 – added Migrate Data	
	24/7	
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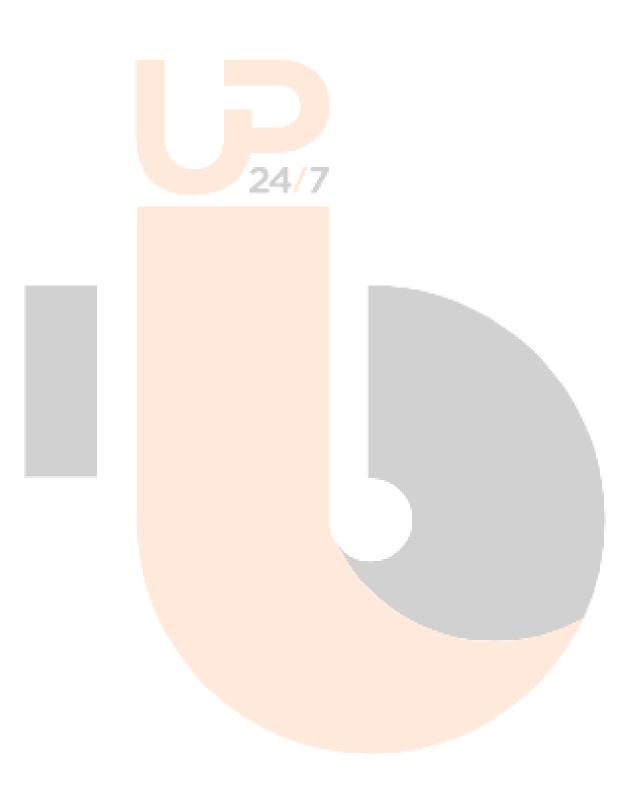
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1 Overview

1.1 What is this software?

Backup247 brings you specialized client backup software, namely Backup247 Advanced Client (B247PRO), to provide a comprehensive backup solution for protecting file(s) / folder(s) on your machine and extend protection to both Android and iOS mobile devices, with a wide variety of backup destinations (major cloud storage service providers, FTP/SFTP, local drive, etc.) of your choice.

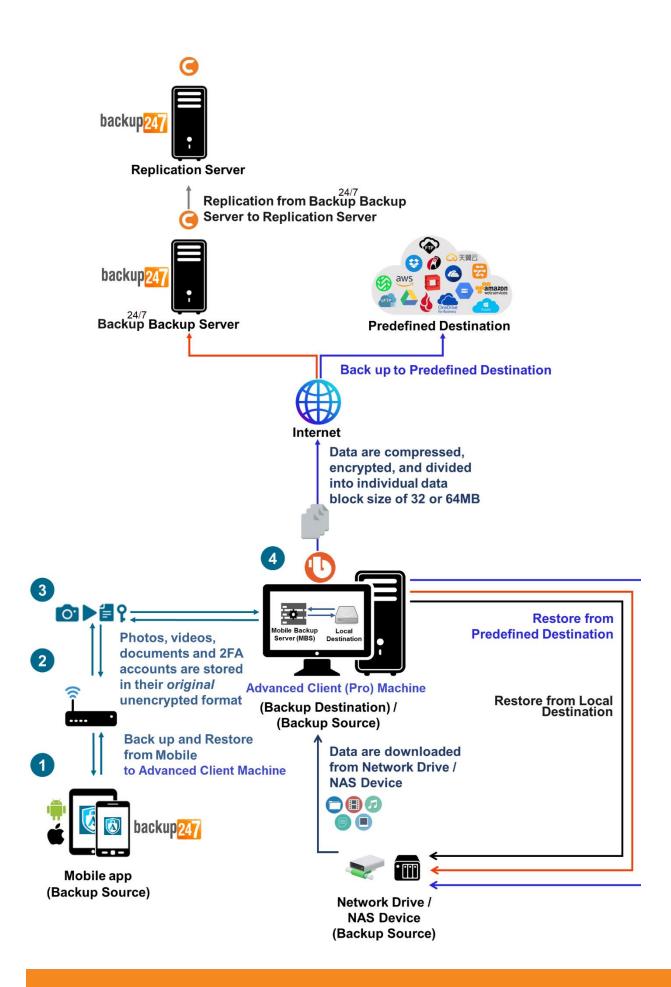
1.2 System Architecture

Below is the system architecture diagram illustrating the major elements involved in the backup process among the backup machine Backup247 Advanced Client (B247PRO), Backup247 Mobile app and B247CBS.

NOTE

The first mobile backup may take up a few hours to back up all photos, videos, documents and 2FA accounts from your device. Subsequent backups will take less time. Please do the following for the first mobile backup to prevent any interruption during backup process:

- For Android devices, disable screen lock or timeout
- For iOS devices, disable auto-lock
- Turn off all power saving modes
- Connect to power source



1.3 Mobile Backup Server

The Mobile Backup Server (MBS) will be utilized to handle mobile backup and restore of Backup247 Mobile app. It is an integral part of Backup247 Advanced Client (B247PRO).

The MBS will be activated automatically when a mobile device installed with the Backup247 Mobile app is successfully registered for mobile backup with Backup247 Advanced Client (B247PRO). Afterwards, it will be automatically restarted whenever the Backup247 Advanced Client (B247PRO) services is restarted or when the Backup247 Advanced Client (B247PRO) machine is rebooted or powered on. The MBS will be deactivated when all mobile devices have deregistered from the mobile backup settings and the Backup247 Advanced Client (B247PRO) services is restarted.

The MBS will use the following port ranges:

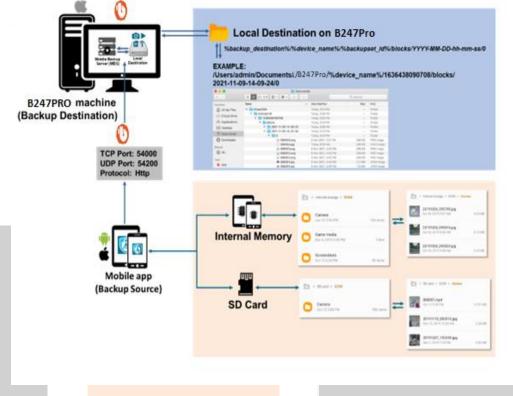
- TCP Port: 54000 to 54099
- UDP Port: 54200 to 54299
- Protocol: Http, for the request of Backup247 Mobile app

The default TCP and UDP ports are **54000** and **54200**, if these ports are already used by other applications or services, then the MBS will automatically acquire another port(s).

The actual TCP and UDP port can be seen on Backup247 Advanced Client (B247PRO) when pairing a mobile device for mobile backup.

Mobile Backup Setup Please scan the QR code to get the b the same QR code to complete the de	elow Mobile App from App Store. Once installed the Mobile App, launch it and scan vice registration.	
	for backup without migration) Set IT ON Google Play	
	Prerequisites - Please use the latest Mobile App version - Please make sure below 2 ports are not blocked by any Firewall settings TCP Port: 54000 UDP Port: 54200	

Photos, videos, documents and 2FA accounts are stored either in mobile device's internal memory or SD Card. These are selected as backup source using the Backup247 Mobile app and will be backed up to the local destination of an Backup247 machine, that can be a Hard Drive, Flash Drive, and/or Network Drive in their *original* unencrypted format. For Android devices, photos and videos will retain all EXIF. While for iOS devices, photos and videos will retain most of the EXIF including, capture date, location, and lens.



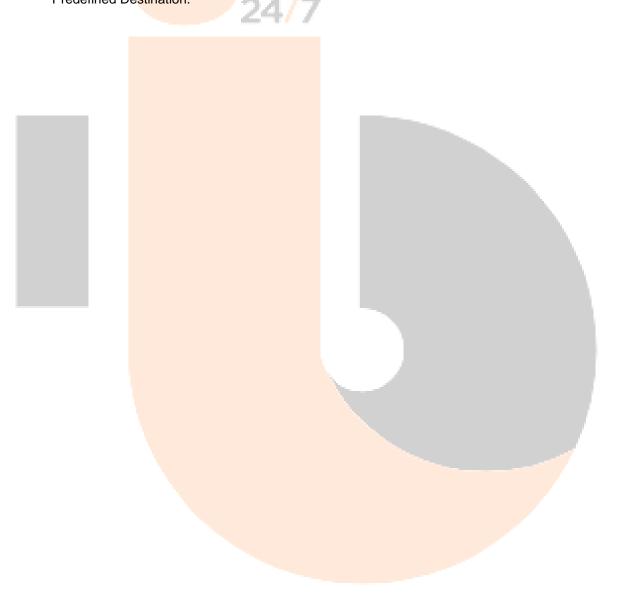


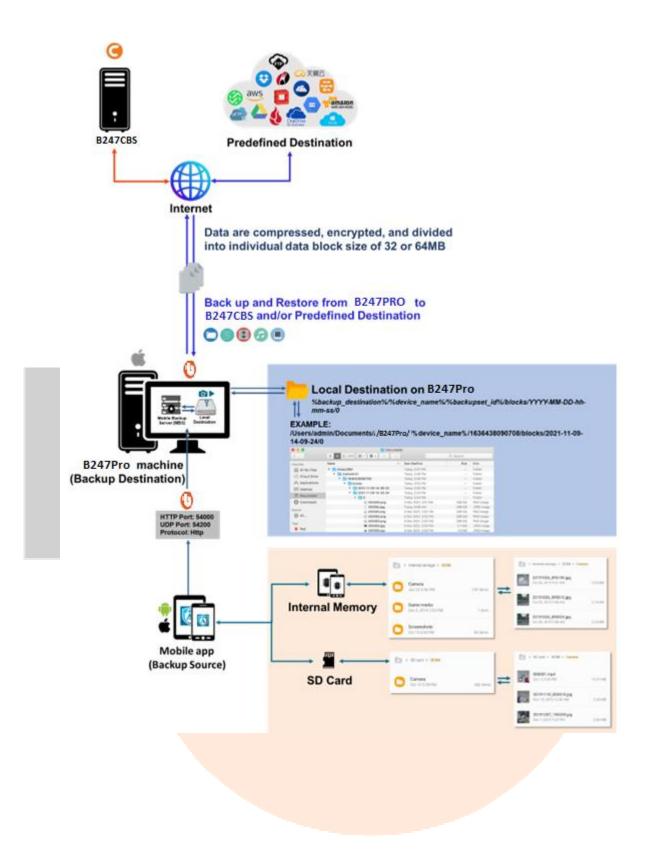
If storage of photos, videos, documents and 2FA accounts to B247CBS and/or Predefined Destination is required, then this can be done using Backup247 Advanced Client (B247PRO) to perform a secondary backup and restore of the photos, videos, documents and 2FA accounts on the local drive to B247CBS and/or Predefined Destination.

To back up and restore photos, videos, documents and 2FA accounts from Backup247 Mobile app to Backup247 Advanced Client (B247PRO) then B247CBS and/or Predefined Destination is a two-step process.

1st: Back up photos, videos, documents and 2FA accounts from Backup247 Mobile app to Backup247 Advanced Client (B247PRO) local destination.

2nd: Create a File backup set using Backup247 Advanced Client (B247PRO), using the local backup destination as the backup source. Then back up this backup set to B247CBS and/or Predefined Destination.







1.4 Two-Factor Authentication

Two-Factor Authentication (2FA) supports TOTP (Time-based One-time Password) and Push notification authentications using the Backup247 Mobile app to provide additional security for the user login process. Since aside from logging in with just a username and password, if the account has Two-Factor Authentication enabled, there will be an additional step necessary to login.

Upon initial login to Backup247 Advanced Client (B247PRO), you will have the option to set up Two-Factor Authentication, or you may skip the setup and do it later. If you proceed with the configuration of Two-Factor Authentication, it will be enabled for your account automatically. You may add more than one mobile device for authentication.

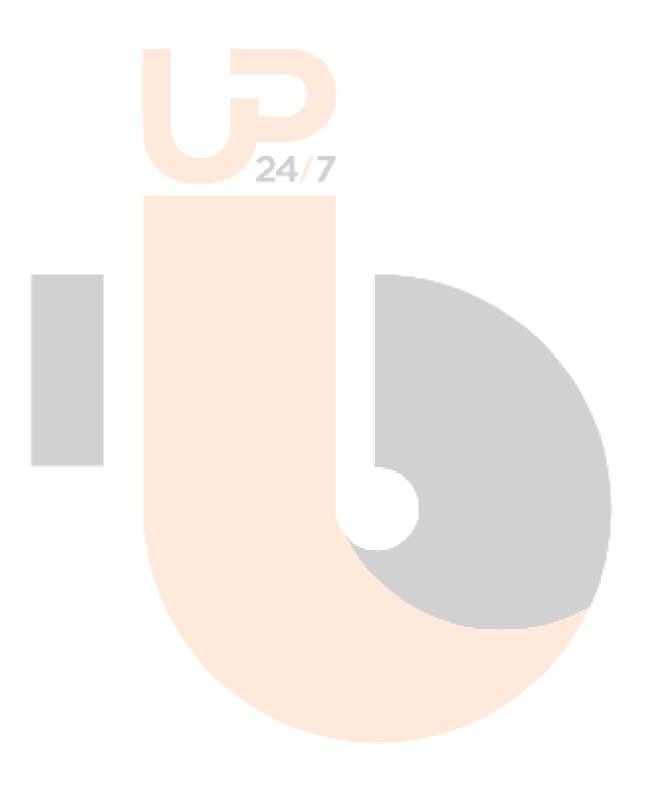
For logins with Two-Factor Authentication enabled, the authentication method that will be available will depend on the authenticator app registered during setup.

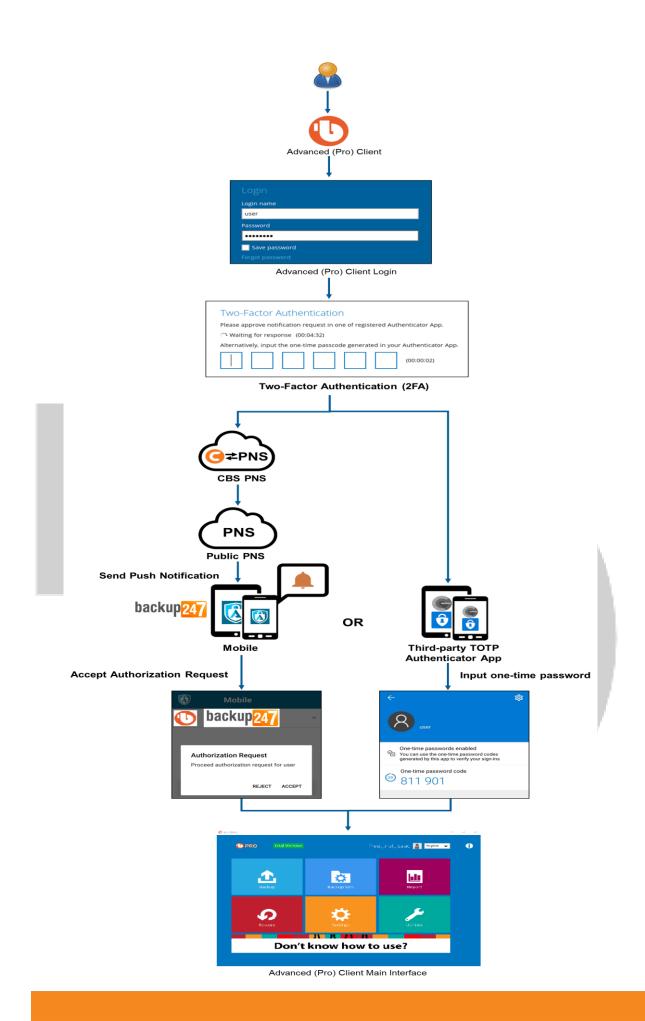
If Backup247 Mobile is used as the authenticator app:

- you will either accept the login request via push notification in the Backup247 Mobile app; or
- enter the one-time password generated in the Backup247 Mobile app

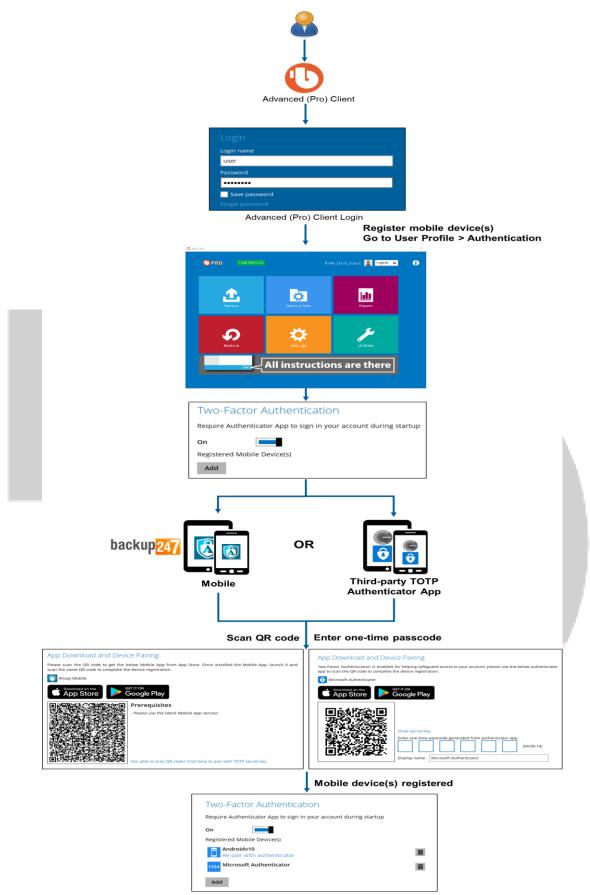
If a third-party authenticator app is used:

 you will enter the one-time password generated in the third-party authenticator (i.e., Authy, Duo, Google Authenticator, Microsoft Authenticator, LastPass Authenticator, iOS 15 Built-in Two-Factor Authenticator, etc.) This illustrates the user login process for account with Two-Factor Authentication enabled using either the Backup247 Mobile app or a third-party authenticator app.





This illustrates the registration of mobile device(s) for Two-Factor Authentication using either the Backup247 Mobile app or a third-party authenticator app.



2 Requirements for Backup247 Mobile

2.1 Backup Software Version Requirement

- Download and install the latest version of Backup247 Advanced Client (B247PRO) v9.0.0.0 or above.
- Download and install the latest version of Backup247 Mobile app on the Play Store for Android mobile devices and on the App Store for iOS mobile devices.

2.2 Network Connection

Ensure that the Backup247 Mobile app is connected to the same local network as the Backup247 Advanced Client (B247PRO) machine. Failure to do so will prevent you from performing backup and/or restore.

2.3 Android and iOS Version Requirement

- For Android devices, the Android version must be 8 or above.
- For iOS devices, the iOS version must be 12.0.0 or above.

3 Requirements for Backup247 Advanced Client (B247PRO) on macOS

3.1 Hardware Requirements

Refer to the link below for details of the minimum and recommended requirements for installing Backup247 Advanced Client (B247PRO):

	/ B247Lite		
<u>CPU:</u>			
Quad Core architecture or above [2]			
ackup data validation checks and other application processes (e	ing power requirement and memory usage. It is recommended the		
	ackup data validation checks and other application processes (e.g. performed by the B247Pro/B247Lite client application, resulting in		
Memory (RAM): ^[3]			
Minimum: 16 GB (at least 50% free memory available) Recommended: 24 GB or more (at least 50% free memory available) Recommended: 8 GB or more (at least 50% free memory available)			
aemory available) ¹ 24GB RAM or more is recommended for better performance, es ackup jobs.	memory available) specially if hosting Run on Server (Agentless) Office 365 and Cloud File		
aemory available) ¹ 24GB RAM or more is recommended for better performance, es ackup jobs.	memory available)		
hemory available) ¹ 24GB RAM or more is recommended for better performance, es ackup jobs he default maximum Java memory setting (Java Heap Size) for 008/2012/2016/2019) is 4096MB or 4GB	memory available) specially if hosting Run on Server (Agentless) Office 365 and Cloud File		
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Antipage 2014 An	memory available) specially if hosting Run on Server (Agentless) Office 365 and Cloud File B247Pro; on Windows server grade operating system (Windows Minimum: 500 MB		
Alemory available) ¹² 4GB RAM or more is recommended for better performance, estackup jobs he default maximum Java memory setting (Java Heap Size) for 008/2012/2016/2019) is 4096MB or 4GB Installation Space: Minimum: 2 GB Recommended: 10 GB (for logs) Network Protocol:	memory available) specially if hosting Run on Server (Agentless) Office 365 and Cloud File B247Pro; on Windows server grade operating system (Windows Minimum: 500 MB TCP/IP		
Antipage 2014 An	memory available) specially if hosting Run on Server (Agentless) Office 365 and Cloud File B247Pro; on Windows server grade operating system (Windows Minimum: 500 MB TCP/IP 10 Mbps or above connection speed [4]		
All Antonio America and a second and a secon	memory available) specially if hosting Run on Server (Agentless) Office 365 and Cloud File B247Pro; on Windows server grade operating system (Windows Minimum: 500 MB TCP/IP 10 Mbps or above connection speed [4]		

3.2 Software Requirements

Refer to the following link for details of the operating systems, applications and databases supported by Backup247 Advanced Client (B247PRO):

Mac OS platforms:				
Mac OS X 10.7.3 or above		9.1.0.0 or above	EOS reached	
macOS 10.8		9.1.0.0 or above	EOS reached	
macOS 10.9		9.1.0.0 or above	EOS reached	
macOS 10.10		9.1.0.0 or above	EOS reached	
macOS 10.11		9.1.0.0 or above	EOS reached	
macOS 10.12 (Sierra)		9.1.0.0 or above	EOS reached	
macOS 10.13 (High Sierra)		9.1.0.0 or above	EOS reached	
macOS 10.14 (Mojave)		9.1.0.0 or above	EOS reached	
macOS 10.15 (Catalina)		9.1.0.0 or above	Supported	
macOS 11 (Big Sur)		9.1.0.0 or above	Supported	
macOS 12 (Monterey)		9.1.0.0 or above	Supported	

3.3 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 Backup247 Advanced Client (B247PRO)

Due to an upgrade in security on macOS 10.15 or higher, additional security settings are required to allow applications to access the machine. Backup247 Advanced Client (B247PRO) requires "Full Disk Access" permission to be able to access your files for selection and backup. Also, without "Full Disk Access" permission, the Backup247 Advanced Client (B247PRO) will not be able to restore files to the machine.

	Security & Privacy Q. Search
General	FleVault Firewall Privacy
Calendars	Allow the apps below to access data like Mail, Messages, Safari, Home, Time Machine backups and
Reminders	certain administrative settings for all users on this Mac.
🧶 Photos	a 💭 8247Pro
Camera	
Mcrophone	
Speech Recognition	
Accessibility	FF
Input Monitoring	
Full Disk Access	
Click the lock to prevent further cl	hanges. Advanced (2)

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

3.4 Installation on Root Drive

Backup247 Advanced Client (B247PRO) must be installed on the root drive of a volume (e.g., /Applications/...).

3.5 Two-Factor Authentication Requirements

Please refer to **Chapter 2.4** of the Backup247 Mobile User Guide for Android and iOS for details of the minimum and recommended requirements for using Two-Factor Authentication on Backup247 Mobile app.

3.6 Mobile Backup Requirements

Please refer to **Chapter 2.5** of the Backup247 Mobile User Guide for Android and iOS for details of the minimum and recommended requirements for installing the Backup247 Mobile app.

3.7 Firewall Settings

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

- For Backup247 Advanced Client (B247PRO) to function correctly must allow outbound connections to *.Backup247.com via port 80 and 443.
- For mobile backup inbound / outbound network traffic must be allowed through the following default ports: HTTP port: 54000 and UDP port: 54200.

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

3.8 Network Bandwidth

10 Mbps or above connection speed.

3.9 ARM (M1) CPU

For Backup247 Advanced Client (B247PRO) running on macOS 11 or above on ARM (M1) CPU machine, the installation of Rosetta 2 is required that enables applications built for Intel CPU to run on an ARM (M1) CPU machine:

https://support.apple.com/en-hk/HT211861

If Backup247 Advanced Client (B247PRO) is installed and run for the first time on macOS 11 or above on ARM (M1) CPU machine, there will be a pop-up message that requests installation of Rosetta. When the following window appears, click **Install** to proceed.

	To open "App Name", you need to install Rosetta. Do you want to install it now?
	Rosetta enables Intel-based features to run on Apple Silicon Macs. Reopening applications after installation is required to start using Rosetta.
	Use of this software is subject to the Software License Agreement applicable to the software you are downloading. A list of Apple SLAs may be found here: http://www.apple.com/legal/sla/
?	Not Now Install

3.10 Limitations

- <u>Resource Fork Files</u> Resource fork files cannot be restored with Backup247 Advanced Client (B247PRO) installation on macOS 10.8 above.
- <u>Case-Insensitive File System</u> 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.

3.11 Best Practices and Recommendations

Periodic Backup Schedule

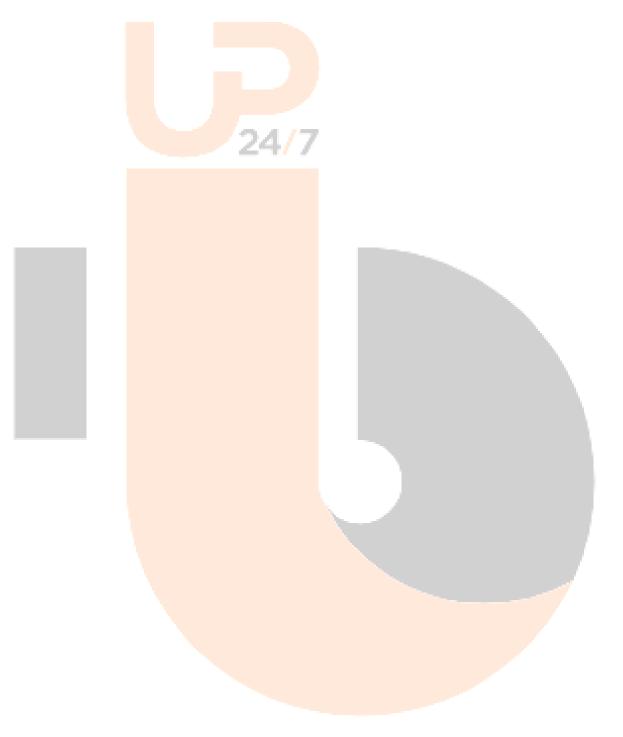
The periodic backup schedule should be reviewed regularly to ensure the interval is sufficient to handle the data volume on the machine. Over the time, data usage pattern may change on a production server, i.e., the number of new files created, the number of files which are updated/delete, new users may be added etc.

When using periodic backup schedules with small backup intervals such as backup every 1 minute, 2 minutes, 3 minutes etc. although the increased backup frequently does ensure that changes to files are captured regularly which allows greater flexibility in recovery to a point in time.

Consider the following key points to efficiently handle backup sets with periodic backup schedule.

- Hardware to achieve optimal performance, compatible hardware requirements is a must. Ensure you have the backup machine's appropriate hardware specifications to accommodate frequency of backups,
 - \circ $\,$ so that the data is always backed up within the periodic backup interval
 - so that the backup frequency does not affect the performance of the production server

- Storage ensure you have enough storage quota allocated based on the amount of new data and changed data you will back up.
- Retention Policy also make sure to consider the Retention Policy settings and Retention Area storage management which can grow because of the changes in the backup data for each backup job.



4 Get Started with Backup247 Advanced Client (B247PRO)

This quick start guide will walk you through the following six (6) major parts to get you started with using Backup247 Advanced Client (B247PRO).

Download and Install Advanced (Pro) Client on your macOS machine Launch the App Launch and log in to Advanced (Pro) Client Set up 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 preference

Run the backup job to back up data

Restore Data

Restore backed up data to your system

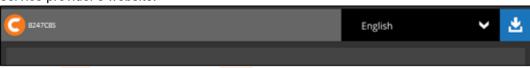
5 Download and Install Backup247 Advanced Client (B247PRO)

There are two installation modes of Backup247 Advanced Client (B247PRO), online installation and offline installation. Below is the table of comparison between online installation and offline installation.

	Online Installation	Offline Installation
Installation Time	download the binary and component files (80MB to 132MB depending on operating system) each time the installation is run.	 Takes less time as all the necessary binary and component files are already available in the offline installer and offline installer can be downloaded once but reused many times. Offline installer size is 50MB to 195MB depending on operating system as it contains all the necessary binary and component files.
Deployments	 of device installations. Suitable for sites with fast and stable internet connection as internet connection is needed each time when an installation is run. A slow internet connection will result in longer installation time and 	 Suitable for multiple or mass device installations. Suitable for client sites with metered internet connections as once the offline installer is downloaded, internet connection is not needed each time when an installation is run. May need to update the product version after installation if an older offline installer is used.

5.1 Download Backup247 Advanced Client (B247PRO)

1. In a web browser, click the blue icon on the top right corner to open the download page for the Backup247 Advanced Client (B247PRO) installation package file from your backup service provider's website.



- 2. In the macOS section under the Backup247 Advanced Client (B247PRO) tab of the download page, you can choose between two installation methods:
 - Online installation using DMG online installer

Ū		
	DMG online installer TAR GZ offline installer	

Offline installation using TAR GZ offline installer

5.2 Install Backup247 Advanced Client (B247PRO)

5.2.1 Online Installation using DMG online installer

1. Launch the online installation package file you have downloaded from the download section above.



2. The Backup247 Online Backup Manager window will appear. You will see another file named "b247pro.pkg". Double-click on the "b247pro.pkg" file.



3. When the Backup247 Advanced Client (B247PRO) Installer wizard appears, click **Continue** to proceed.

🚺 B247PRO	Welcome to the B247Pro Installer
Introduction	You will be guided through the steps necessary to install this software.
Read Me	
	Go Back Continue

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

B247PRO	Important Information
Introduction	 Please save your work before continuing with the installation. Please do not turn off the computer while the installation is in progress.
Read Me	
License	
Destination Select	
Installation Type	
 Installation 	
 Summary 	
	Print Save Go Back Continue

5. 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 ᅌ to change the language. After reading the agreement carefully, click **Continue** to proceed.

Introduction	English	
Read Me	Tomo of the	
License	Terms of Use	
Commenter Militian	1. All Software provided by EACKUP247 PTV LTO is on an "as is" basis with no	
	warranties of any kind and BACKUF247 PTY LTD will not be lable for any	
	canages of any kind arising from the use. BACKUP247 PTY LTD further disclaim	
	al warranties, express and impled, including without imitation, any implied	
 Secondly 	warranties of merchant-ability or filness for a particular purpose.	
	werranties of merchant-ability or fitness for a particular purpose.	
	wenenties of merchait-ability or fitness for a particular purpose. 2. BACKUP247 FTY LTD grants you a non-exclusive, non-transferable, royaty-	
	2. BACKUP247 FTY LTD grants you a non-exclusive, non-transferable, royaty-	
	2. BACKUP247 FTY LTD grants you a non-exclusive, non-transferable, reyally- free, linked license to use the binary form of the software provided by	
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	2. BACKUP247 FTY LTD grants you a non-exclusive, non-transferable, reyally- free, linked license to use the binary form of the software provided by	

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



7. Click **Install** to start installing Backup247 Advanced Client (B247PRO) to the default location, i.e. "Untitled" in this example.

6247PRO	Standard Install on "Untitled"
 Introduction Read Me Licence Destination Select Installation Type Destination Type 	This will take 174.2 MB of space on your computer. Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.
	Go Back Install

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

	p is trying to install new software. Type ord to allow this.	
Username:	username	
Password:	•••••	
	Cancel Install Software	

NOTE

The pop-up windows on **Steps 9**, **10**, and **11** are only applicable on macOS 10.15 or above. Otherwise, proceed to **Step 12**.

9. When the following pop-up window is displayed, click **OK** to proceed.



10. When the following pop-up window is displayed, click **OK** to proceed.



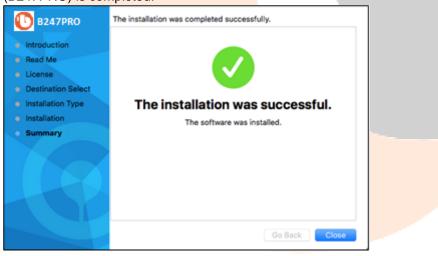
11. When the following pop-up window is displayed, click **OK** to continue with the installation.



12. Wait until the installation process is finished.

🚺 B247PRO	Installing B247Pro
Introduction	
 Read Me 	
Licence	
Destination Select	Running package scripts
Installation Type	
Summary	
	Install time remaining: About 13 minutes
	Go Back Continue

13. You will see the following screen when the installation of Backup247 Advanced Client (B247PRO) is completed.

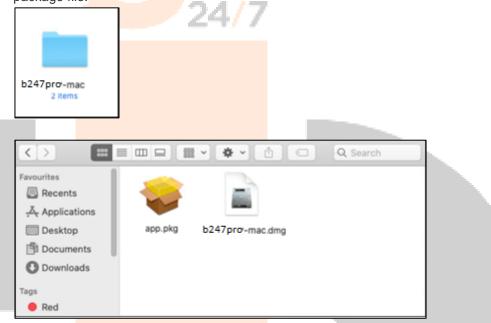


5.2.2 Offline Installation using TAR GZ offline installer

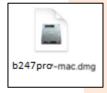
1. Double-click on the "b247pro-mac.tar" file you have downloaded to expand the installation package.



2. A new folder named "b247pro-mac" will be created. Open the folder to access the installation package file.



3. Double-click on the "b247pro-mac.dmg" file.



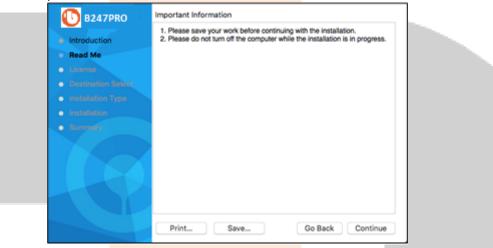
The Backup247 Online Backup Manager window will appear. You will see another file named "b247pro.pkg". Double-click on the "b247pro.pkg" file



4. When the Backup247 Advanced Client (B247PRO) Installer wizard appears, click **Continue** to proceed.

0 B247PRO	Welcome to the B247Pro Installer	
Introduction	You will be guided through the steps necessary to install this software.	
Read Me	sonware.	
Summary		
	Go Back Continue	

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



6. 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 is to change the language. After reading the agreement carefully, click **Continue** to proceed.

B247PRO	Software License Agreement	
Introduction	English	
Read Me License Conservation (Pablic) Installation Installation Commit:	Terms of Use 1. All Software provided by EACKUP247 PTY LTD is on an "as is" basis with no warranties of any kind and BACKUP247 PTY LTD will not be lable for any canages of any kind anising from the use. BACKUP247 PTY LTD further clacitains all warranties, express and impled, including without imitation, any impled womenties of merchant-ability or fitness for a particular purpose. 2. BACKUP247 FTY LTD grants you a non-exclusive, non-transferable, royally- frae, limited license to use the binary form of the software provided by BACKUP247 PTY LTD for personal use only. Redistribution of programs owned by BACKUP247 PTY LTD, unless explicitly granted by BACKUP247 PTY LTD, is strictly prohibited. Print	

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



8. Click **Install** to start installing Backup247 Advanced Client (B247PRO) to the default location, i.e. "Untitled" in this example.

🚺 B247PRO	Standard Install on "Untitled"
 Introduction 	This will take 174.2 MB of space on your computer.
Read Me Licence Destination Select Installation Type Installation	Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.
	Go Back Install

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

	p is trying to install new software. Type rord to allow this.	
Username:	username	
Password:		
	Cancel Install Software	

NOTE

The pop-up windows on **Steps 11**, **12**, and **13** are only applicable on macOS 10.15 or above. Otherwise, proceed to **Step 14**.

10. When the following pop-up window is displayed, click **OK** to proceed.



11. When the following pop-up window is displayed, click **OK** to proceed.

R	"Installer" would like to access Desktop folder.	files in your
?	Don't Allow	ОК

12. Wait until the installation process is finished.

🚺 B247PRO	Installing B247Pro
Introduction Read Me	
Licence	
Destination Select Installation Type	Running package scripts
Installation	
	Install time remaining: About 13 minutes
	Go Back Continue

13. You will see the following screen when the installation of Backup247 Advanced Client (B247PRO) is completed.

0 B247PRO	The installation was completed successfully.
 Introduction Read Me License Destination Select Installation Type Installation Summary 	The installation was successful. The software was installed.

5.3 Backup247 Advanced Client (B247PRO) Services

The Backup247 Advanced Client (B247PRO) Services is a key component which regulates and controls several important functions on Backup247 Advanced Client (B247PRO).

Function	Description
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)	Ensures that registered mobile devices can perform backups to Backup247 Advanced Client (B247PRO).	
	The MBS will be activated when a mobile device is registered for mobile backup on Backup247 Advanced Client (B247PRO).	
	The MBS will be deactivated when all mobile devices have been deregistered from the mobile backup settings and the Backup247 Advanced Client (B247PRO) services is restarted.	

Therefore, it is very important to ensure the Backup247 Advanced Client (B247PRO) Services are running after:

- a new Backup247 Advanced Client (B247PRO) installation
- an Backup247 Advanced Client (B247PRO) software update
- the machine was rebooted
- the machine is powered on
- the machine wakes up from hibernation or standby mode

Otherwise, all of the functions above will stop working.

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

Go	Window	Help
Back		¥[
Fo	¥]	
Enclosing Folder		er %tî
All My Files		℃₩F
Documents		企業O
Desktop		☆ ₩D
0	Downloads	\C ₩L
	Home	企 第H
	Computer	企業C
MirDrop		仓 第R
Wetwork		☆ ೫K
4	iCloud Drive	e 企 第1
A	Applications	o 分業A
\sim	Utilities	☆ 業 U
Re	cent Folders	•
Go to Folder		企業G
Co	nnect to Ser	ver %K

Open the Terminal application.



Use the command highlighted in red to enter the Backup247 Advanced Client (B247PRO) folder.

```
[admins-Mac:bin admin$ cd /Applications/Backup247 Advanced Client
(B247PRO).app/bin
[admins-Mac:bin admin$
```

To check if the scheduler service is running, use the **ps** command. You will see that the scheduler service is running, highlighted in red.

```
admins-Mac:~ admin$ ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07 /Applications/Backup247 Advanced
Client (B247PRO).app/jvm/bin/java -Xms128m -Xmx768m -
Djava.library.path=. -cp .:./cbs.jar cbs /Applications /Backup247
Advanced Client (B247PRO).app
501 5741 5705 0 9:05PM ttys000 0:00.00 grep java
```

There are two (2) options to stop and start the Backup247 Advanced Client (B247PRO) scheduler service.

5.3.1 Option 1: Stop and Start

To stop the scheduler service, 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 scheduler service has stopped running, use the ps command.

```
admins-Mac:~ admin$ sudo /Applications/Backup247 Advanced Client
(B247PRO).app/bin/StopScheduler.sh
Password:
admins-Mac:~ admin$ ps -ef|grep java
501 5721 5705 0 9:02PM ttys000 0:00.00 grep java
```

• Use the command highlighted in red to start the scheduler service then use the ps command. You will see that the scheduler service is running, highlighted in red.

```
admins-Mac:~ admin$ sudo /Applications/Backup247 Advanced
Client (B247PRO).app/bin/Scheduler.sh
admins-Mac:~ admin$ ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07 /Applications/Backup247
Advanced Client (B247PRO).app/jvm/bin
/java -Xms128m -Xmx768m - Djava.library.path=. -cp .:./cbs.jar
cbs
/Applications/Backup247 Advanced Client (B247PRO).app
501 5741 5705 0 9:05PM ttys000 0:00.00 grep java
```

5.3.2 Option 2: Stop and Start

• To **stop** the scheduler service, use the command highlighted in red. Use the **ps** command to check if the scheduler service has stopped running.

```
admins-Mac:~ admin$ sudo launchctl unload -F
/Applications/Backup247 Advanced Client (B247PRO).app/
bin/com.cb.scheduler.plist
admins-Mac:~ admin$ ps -ef|grep java
501 5842 5793 0 9:23PM ttys000 0:00.01 grep java
admins-Mac:~ admin$
```

• Use the command highlighted in red to start the scheduler service then use the **ps** command. You will see that the scheduler service is running, highlighted in red.

```
admins-Mac:~ admin$ sudo launchctl load -F
/Applications/Backup247 Advanced Client (B247PRO).app/
bin/com.cb.scheduler.plist
admins-Mac:~ admin$ ps -ef|grep java
0 5805 1 0 9:21PM ?? 0:01.92 /Applications/Backup247 Advanced
Client (B247PRO).app/jvm/bin/java -
Xms128m -Xmx768m - Djava.class.path=/Applications/Backup247
Advanced Client (B247PRO).app
/bin:/Applications/Backup247 Advanced Client
(B247PRO).app/bin/cbs.jar -Djava.library.path=/Applica
tions/Backup247 Advanced Client (B247PRO).app
/bin:/Backup247 Advanced Client (B247PRO).app
501 5811 5793 0 9:21PM ttys000 0:00.00 grep java
```



5.4 RunLevel Symlink Check

During installation, the following symlinks will be created to the scheduler startup script: /Applications/Backup247 Advanced Client (B247PRO).app/bin/com.cb.scheduler.plist

This will allow the Backup247 Advanced Client (B247PRO) Scheduler Service to automatically start each time the machine is rebooted or restarted.

To verify if the symlinks have been created correctly, use the **Is** command. You will see the symlink highlighted in red.

```
admins-Mac:~ admin$ 1s -1a /Library/LaunchDaemons/

total 16

drwxr-xr-x+ 62 root wheel 2108 Apr 5 01:56 ..

lrwxr-xr-x 1 root wheel 53 May 15 03:07 com.Backup247 Advanced Client

(B247PRO).scheduler.plist -> /Applications/Backup247 Advanced Client

(B247PRO).app/bin/com.cb.scheduler.plist

admins-Mac:~ admin$
```





5.5 Mobile Backup Server (MBS) Status Check and Backup247 Mobile app Connection Check

Although the Mobile Backup Server (MBS) will be activated automatically when a mobile device installed with the Backup247 Mobile app is successfully registered for mobile backup with Backup247 Advanced Client (B247PRO).

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

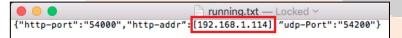
1. Check HTTP port, IP address and UDP port in the **running.txt** file. Go to mbs folder. Example: /Applications/Backup247 Advanced Client (B247PRO).app/mbs

< >	*	v Li lo		2 Search
Favorites	Name	Date Modified	Size	Kind
AirDrop	afc.opt	May 21, 2018, 9:55 AM	6 KB	Document
All My Files	🕨 🛅 aua	Today, 12:49 AM		Folder
All My Files	autoDiscovery.xml	Jul 17, 2008, 2:36 PM	70 bytes	XML document
iCloud Drive	🕨 🛅 bin	Dec 12, 2020, 9:57 PM		Folder
Applications	💼 cb.opt	Feb 17, 2017, 12:08 PM	2 KB	Document
	🗟 config.ini	Dec 11, 2020, 7:30 PM	264 bytes	Visualcument
Desktop	Contents	Dec 12, 2020, 9:57 PM		Folder
Documents	custom.xml	Dec 11, 2020, 7:34 PM	1 KB	XML document
Downloads	home.txt	Today, 12:43 AM	18 bytes	Plain Text
Bonniouda	installer.sh	Dec 11, 2020, 7:30 PM	11 KB	Terminal scripts
Shared	🕨 📄 ipc	Dec 12, 2020, 9:57 PM		Folder
lenovo	🕨 🚞 jvm	Dec 12, 2020, 9:54 PM		Folder
-	licenses	Dec 11, 2020, 4:41 PM		Folder
Tags	🕨 🚞 log	Dec 12, 2020, 9:58 PM		Folder
🔴 Red	🔻 📄 mbs	Yesterday, 11:30 PM		Folder
Orange	📓 chn.dat	Dec 12, 2020, 9:57 PM	4 KB	DAT file
	chn.lck	Yesterday, 11:29 PM	Zero bytes	Document
Yellow	conf	Dec 12, 2020, 9:57 PM		Folder
Green	onfig.ini	Dec 12, 2020, 9:57 PM	228 bytes	Visualcument
Blue	🕨 🔜 lib	Dec 11, 2020, 4:41 PM		Folder
	logs	Today, 12:19 AM		Folder
Purple	running.txt	Yesterday, 11:30 PM	55 bytes	Plain Text
Gray	🕨 📄 temp	Aug 26, 2020, 5:51 PM		Folder
	tomcat	Dec 12, 2020, 9:56 PM		Folder
All Tags	📓 user.dat	Today, 12:48 AM	109 bytes	DAT file
	webapps	Dec 11, 2020, 4:42 PM		Folder
	work	Dec 12, 2020, 10:04 PM		Folder
	🕨 🚞 util	Dec 11, 2020, 7:34 PM		Folder
	version.txt	Dec 11, 2020, 6:51 PM	8 bytes	Plain Text

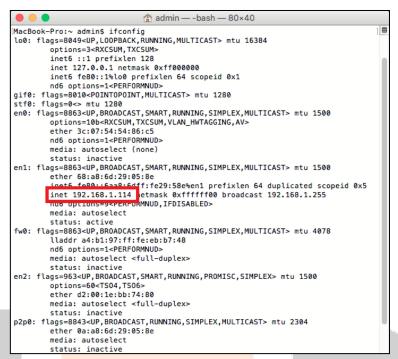
NOTE

If the "running.txt" file does not exist, then the MBS is not running. Restart the Backup247 Advanced Client (B247PRO) services.

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



2. Open the Terminal and check if the IP address captured in the running.txt file is the correct IP address of the machine where Backup247 Advanced Client (B247PRO) is installed.



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

netst	at -	var	np tcp ∖ grep	54000						
				🟦 admin — -bash — 107×	12					_
			netstat -vanp tcp \]
Active I	nternet	conn	ections (including ser	vers)						
Proto Re	cv-Q Ser	nd-Q	Local Address	Foreign Address	(state)	rhiwat	shiwat	pid	epid	
tcp4	0	0	192.168.1.114.49342	125.5.184.164.80	CLOSE_WAIT	32768	32768	66	0	
tcn4	۵	Ø	127.0.0.1.64050	* *	LISTEN		131072	66	0	
tcp46	0	0	*.54000	*.*	LISTEN	131072	131072	66	0	
тср4	Ø	Ø	192.168.1.114./0/0	192.168.1.111.5005/	ESTABLISHED	262144	311296	84	0	
tcp4	0	0	*.49192	*.*	LISTEN	131072	131072	84	0	
tcp4	0	0	192.168.1.114.49192	92.223.85.120.80	ESTABLISHED	131072	131860	84	0	
tcp4	0	0	192.168.1.114.49191	17.57.145.68.5223	ESTABLISHED	131072	131860	91	0	
tcp4	0	0	*.7070	*.*	LISTEN	131072	131072	84	0	

- 4. 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: HTTP Port: 54000 to 54099 and UDP Port: 54200 to 54299. Otherwise, mobile backup and restore will not work.
- 5. To perform a status check on the MBS. Open a browser on the Backup247 Advanced Client (B247PRO) machine and type the IP address, followed by the TCP port.

For example: If the HTTP port used is 54000, http://192.168.1.114:54000, you should get the following result which shows "Running" status. This means the MBS is running.

In the Backup247 Advanced Client (B247PRO) machine

• • • < > 🔇 192.168.1.114:54000	>> +
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 the TCP port.

For example: If the HTTP port used is 54000, http://192.168.1.114:54000, you should get the following result which shows "Running" status. This means the Backup247 Mobile app can successfully connect to the MBS and both backup and restore can proceed on the mobile device.

Running			
	24	17	

247

Register device for 2FA in Backup247 Advanced Client 6 (B247PRO)

There are two types of Authenticator that can be used to register a device for 2FA in Backup247 Advanced Client (B247PRO):

- Backup247 Mobile Authenticator •
- Third-party TOTP Authenticator (e.g., Microsoft Authenticator, Google Authenticator, Authy, Duo, • LastPass Authenticator, iOS 15 Built-in Two-Factor Authenticator, etc.)

The 2FA registration steps using the different types of authenticator will be discussed in this chapter.

- Using Backup247 Mobile Authenticator
 - \geq Supports two types of authentication:
 - **Push Notification** i) TOTP
 - ii)
 - Can be configured to support two 2FA modes: \triangleright
 - Push Notification and TOTP (default mode); or i)
 - ii) TOTP only
- Using Microsoft Authenticator
- Using Google Authenticator

6.1 Using Backup247 Mobile Authenticator

To register a device for 2FA in Backup247 Advanced Client (B247PRO) using Backup247 Mobile, here are the two scenarios:

- Without Mobile Add-on Module
- With Mobile Add-on Module

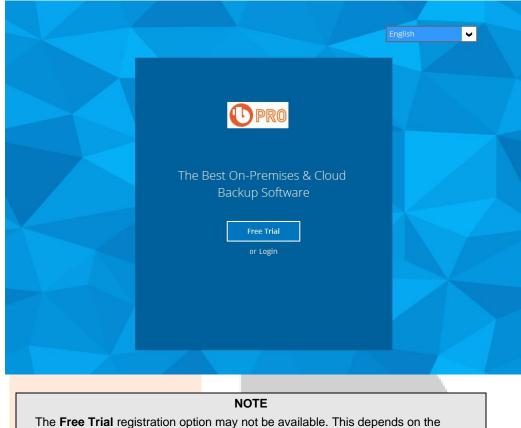
6.1.1 Without Mobile Add-on Module

To register a device for 2FA without Mobile Add-on Module, please follow the steps below:

1. A shortcut icon of Backup247 Advanced Client (B247PRO) will be available on your desktop after installation. Double-click the icon to launch the application.



 The Free Trial Registration option may be displayed when you login for the first time. If you want to create a free trial account please proceed to Appendix E. Otherwise, click Login if you already have a Backup247 Advanced Client (B247PRO) account.



The **Free Trial** registration option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.

3. The **Show advanced option** may not be available if the backup server settings are already setup by your backup service provider. Please contact Backup247 Technical Support for more information.

	English 🗸
Login	
Login name	
MobileUser	
Password	
•••••	
Save password	
Show advanced option OK	

If **Show advanced option** is clicked, this will be displayed. IP address used below is dummy for illustration purpose

Backup Server	
https 🖌 10.3.121.11	~
Proxy (HTTP)	
Use proxy to access the Internet Off	

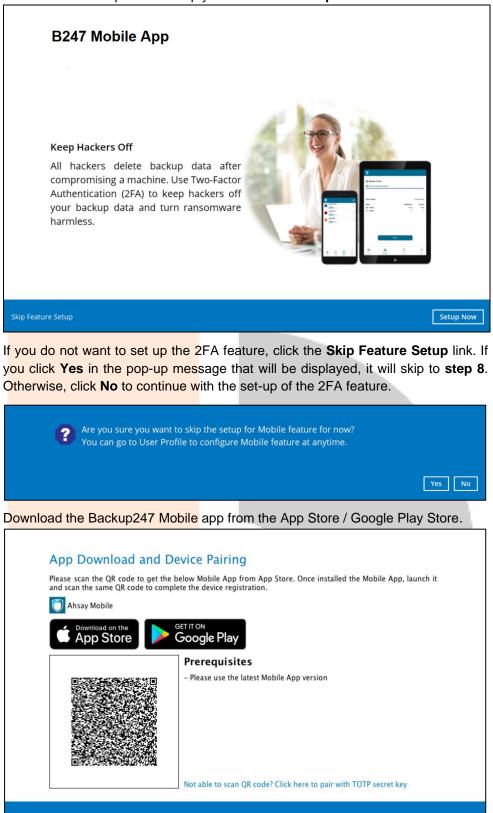
 Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click OK to log in.

	English 🗸
Login	
Login name MobileUser	
Password	
Save password	
Show advanced option	ок

NOTE

The **Save password** option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.

5. You will have the option to set up your 2FA. Click **Setup Now**.



6.

- 7. Backup247 Mobile supports two types of authentication method:
 - Push Notification
 - ➤ TOTP

Backup247 Mobile can be configured to support two 2FA modes:

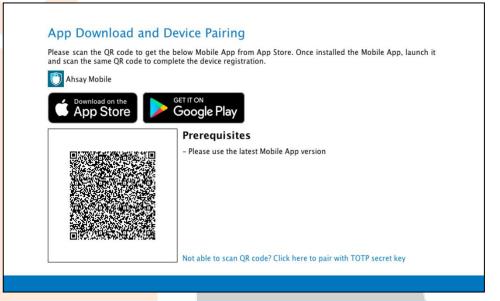
> Push Notification and TOTP (default mode)

```
or
```

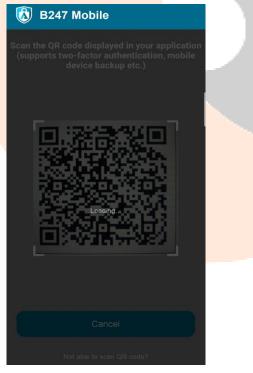
TOTP only

Push Notification and TOTP (default mode)

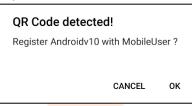
i. To configure Push Notification and TOTP 2FA with Backup247 Mobile, simply scan the displayed QR code using the Backup247 Mobile app.



ii. In this example, the Backup247 Mobile app is installed on a mobile device named "Androidv10".



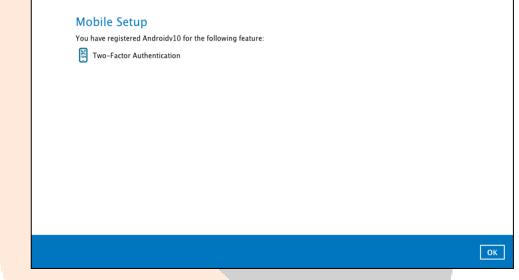
Tap OK to continue.



Once the device is successfully paired, the following message will be displayed in the Backup247 Mobile app. You can set up a recovery number here that will be used in case of "Authentication Recovery" procedure by tapping **OK**. Otherwise, tap **LATER** to set it up later on.



iii. After successful scan of the QR code, you have now registered Backup247 Mobile for Push Notification and TOTP 2FA. Click **OK** to continue.



Phone number verification for account recovery

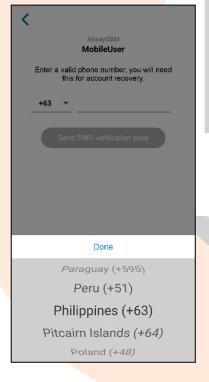
iv. In the Backup247 Mobile app, go to 2FA then enter the phone number for account recovery. Tap Enter recovery phone number.

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 iv** as you will not be able to access the Backup247 Advanced Client (B247PRO) if you lose your mobile device which also means loss of access to backup data.

	B247 Mobile		
	B247Pro MobileUser		
	045 003	21s	Ľ
	Enter recover	y phone numbe	
	Reorder	(\cdot)	Add
	<u>ب</u>	60	Ξ
Home	Backup	2FA	More

Select your country code and enter your phone number. Tap Send SMS verification code.



	Ahsay	/OBM			yOBM	
	Mobile	eUser			eUser	
	Enter a valid phone n this for accou	umber, you will need unt recovery.	Enter a	valid phone r this for acco	number, you v unt recovery.	will need
	+63 🔻		+63	-		
	Resend	lin 92s				
				Resend	d in 90s	
	Verificati	on code	Verifica	tion success	ful	- 1
	ASFA - 245748	(04:32)				ок
			1	2	3	_
			4	5	6	
			7	8	9	$\langle \times$
			,	0		
	ample of verifi					
	Verification	n Code: ASFA-2	<u>245748</u>			
Yo		n Code: ASFA-2 n <mark>ber for ac</mark> count r		is succ	essfull	y verifie
Yo		<mark>ber for ac</mark> count r	recovery	is succ 47 Mobi		y verifie
Yc	Dur phone num	<mark>ber for ac</mark> count r	recovery	47 Mobi 7Pro		y verifie
Yc	our phone num	<mark>ber for ac</mark> count r	recovery	47 Mobi	le	y verifie
Yœ	Dur phone num	<mark>ber for ac</mark> count r	recovery	47 Mobi 7Pro illeUser	le	y verifie
Yc	Dur phone num	ber for account r	recovery	47 Mobi 7Pro illeUser	le	y verifie
Ya	Dur phone num	nber for account r	recovery	47 Mobi 7Pro illeUser	le 29s	
Yœ	our phone num	ber for account r	recovery	47 Mobi 7Pro 16 980	le 29s	y verifie C

Enter the verification code sent to your mobile device.

TOTP only

i. To configure a TOTP only 2FA with Backup247 Mobile, click the **"Not able to scan QR code? Click here to pair with TOTP secret key"** link.



ii. After clicking the "Not able to scan QR code? Click here to pair with TOTP secret key" link, the QR code for the TOTP only authenticator will be displayed.

Ahsay Mobile	
	GETITION Google Play
	Show Secret Key
	Enter one-time passcode generated from authenticator app (00:00:26)
10.02 2925	Display name: B247 Mobile

To show the secret key, click the **Show Secret Key** link to display the 16-character alphanumeric secret key. The display name will be "Backup247 Mobile" by default.

B247 Mobile	X Connect using Secret Key
Scan the QR code displayed in your application (supports two-factor authentication, mobile device backup etc.)	Key in the Secret Key provided by the app Username
	Secret Key
Cancel	Connect
Not able to scan QR code?	Scan QR Code

iii. In the Backup247 Mobile app, go to **2FA**. Tap the **Not able to scan QR code?** link.

iv. Enter the Username and Secret Key shown in the Backup247 Advanced Client (B247PRO) then tap **Connect**. Once the device is paired successfully, click **OK** to continue.

Key in the Secret Key provided by the app	Key in the Secret Key provided by the app
B247 Mobile	B247 Mobile
	Device paired successfully
	ок

v. Enter the one-time passcode from the Backup247 Mobile app.

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.



Cancel

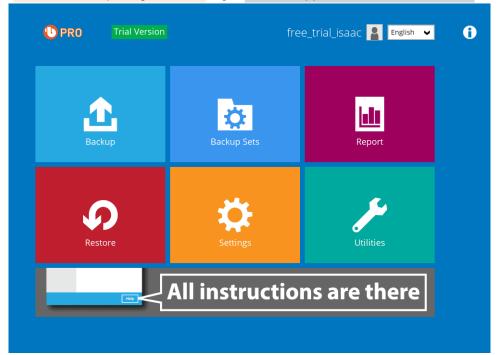
Example of the one-time passcode generated by Backup247 Mobile:

B247 Mobile		
B247 Pro MobileUser	▼	
TOTP (Manual input B247 Mobile	<u></u>	
518 273	27s	
E Reorder	Add	
↑ ⊥		
Home Backup	2FA More	

vi. Once the registration is successful, the following screen will be displayed. You have now registered Backup247 Mobile for TOTP only 2FA.

Mobile Setup You have registered Ahsay Mobile for the following feature:
ОК
NOTE
In case device pairing takes a while, session timeout message will be displayed. Just click OK to resume with the device pairing.
Mobile Setup
Due to session timeout, Two-Factor Authentication feature failed to be configured.
Click [OK] to configure the feature again.

8. After successful pairing, the following screen will appear.



6.1.2 With Mobile Add-on Module

To register a device for 2FA <u>with Mobile Add-on Module enabled</u>, please follow the steps below:

1. A shortcut icon of Backup247 Advanced Client (B247PRO) will be available on your desktop after installation. Double-click the icon to launch the application.



 The Free Trial Registration option may be displayed when you login for the first time. If you want to create a free trial account please proceed to Appendix E. Otherwise, click Login if you already have a Backup247 Advanced Client (B247PRO) account.

	English	
The Best On-Premises & Cloud Backup Software Free Trial		
or Login		

NOTE

The **Free Trial** registration option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.



3. The **Show advanced option** may not be available if the backup server settings are already setup by your backup service provider. Please contact Backup247 Technical Support for more information.

► bein anne Basword Forgot password Forgot password		
Login Login name MobileUser Password •••••• Save password		English 🖌
Login Login name MobileUser Password •••••• Save password		
Login Login name MobileUser Password •••••• Save password		
Login name MobileUser Password •••••• Save password		
MobileUser Password •••••• Save password	Login	
Password Save password	Login name	
Save password	MobileUser	
Save password		
Forgot password		
Show advanced option OK	Iow advanced option	

If **Show advanced option** is clicked, this will be displayed.

Backup Server	
https 🖌 10.3.121.11	~
Proxy (HTTP)	
Use proxy to access the Internet	

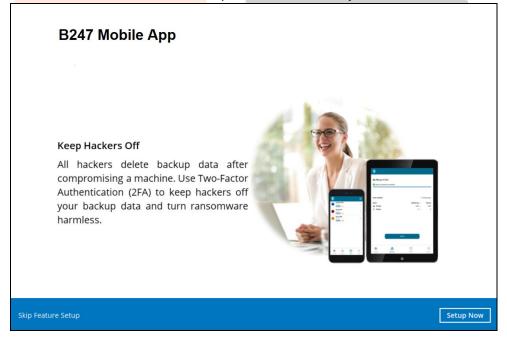
 Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click OK to log in.



		English 🗸
Login		
Login name MobileUser		
Password		
Save password		
Show advanced option	ОК	
NOTE		

The **Save password** option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.

5. You will have the option to set up your 2FA and mobile backup if the **Mobile Add**on **Module is enabled** in the backup account. Click **Setup Now**.





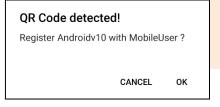
6. Download the Backup247 Mobile app from the App Store / Google Play Store. Ensure that the displayed Prerequisites are met.



7. By using the Backup247 Mobile app, tap **Next** and scan the QR code displayed in Backup247 Advanced Client (B247PRO).

	🕲 B247 Mobile
	Scan the QR code displayed in your application (supports two-factor authentication, mobile device backup etc.)
B247 Mobile	
English	
Next	Cancel

Tap **OK** to continue.





Once the device is successfully paired, the following message will be displayed in the Backup247 Mobile app. Click **OK** to continue.

Device paired successfully You may now configure the device content e.g Photos, Video, 2FA Accounts(if registered) to be included for backup

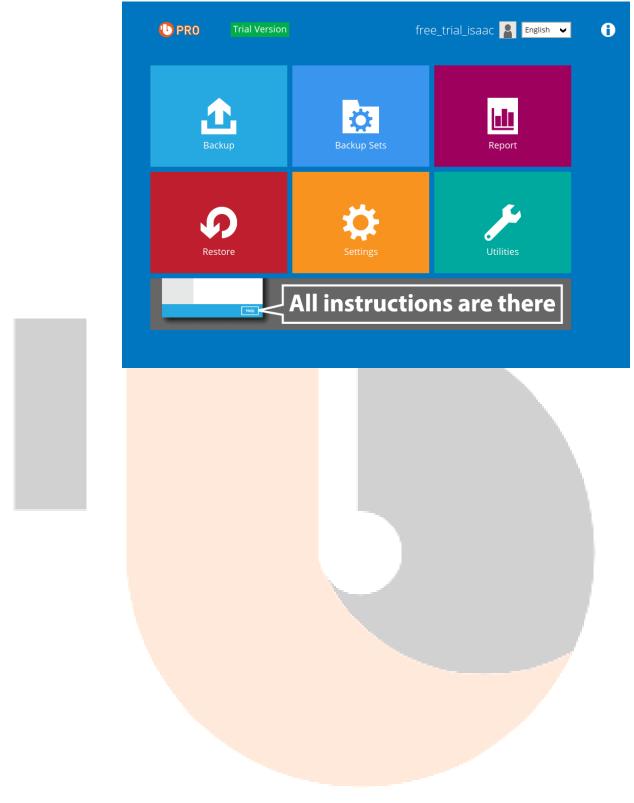
Once the device is successfully paired, the following message will be displayed in the Backup247 Mobile app. You can set up a recovery number here that will be used in case of the "Authentication Recovery" procedure by tapping **OK**. You may refer to Phone number verification for account recovery in **Chapter 6.1.1** for the following setup. Otherwise, tap **LATER** to set it up later on.



8. After successful scan of the QR code, you have now registered Backup247 Mobile for 2FA (Push Notification and TOTP) and Mobile Backup. Click **OK** to continue.

Two-Factor Au		ickup without migration)		
You can go to the b	ackup page in Mobile Ap	op B247 Mobile to star	t Mobile Backup.	





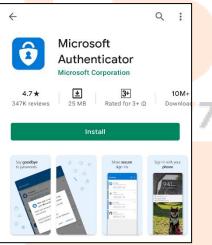
9. After successful pairing, the following screen will appear.



6.2 Using Microsoft Authenticator

To register a device for TOTP 2FA in Backup247 Advanced Client (B247PRO) using Microsoft Authenticator, please follow the steps below:

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.



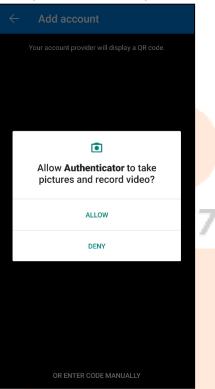


3. Tap Add account.

Authenticator	
Let's add your first account!For further assistance, see the Help section in the menu.	7
Already have a backup? Sign in to your recovery account. Begin recovery	
n p*	
Authenticator Passwords	
4. Select Other account (Goog	le, Facebook, etc.).
← Add account	
What kind of account are you adding?	
Personal account	0
Work or school account	0
Q Other account (Google, Facebook, etc.)	



5. Allow permission to take pictures and record video.



6. Set up the account by selecting from the following methods: Scan the QR code or Enter code manually.

Method 1: Scan the QR code

i. Scan the QR code on Backup247 Advanced Client (B247PRO).



Example of the displayed QR code:



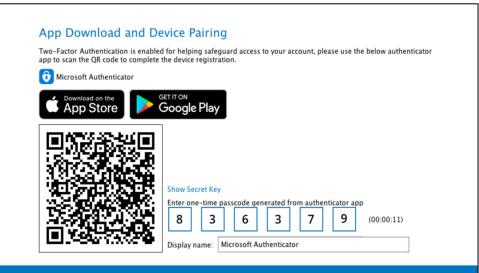
Two-Factor Authentication is enable app to scan the QR code to complete	ed for helping safeguard access to your account, please use the below authenticator e the device registration.
Microsoft Authenticator	
Download on the App Store	Google Play
	Show Secret Key Enter one-time passcode generated from authenticator app (00:00:11) Display name:

ii. The Backup247 Advanced Client (B247PRO) account is successfully added to Microsoft Authenticator and the mobile device is registered in Backup247 Advanced Client (B247PRO).

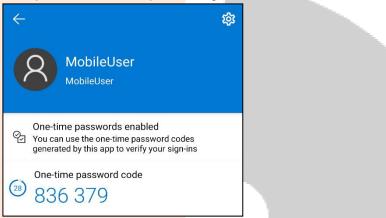




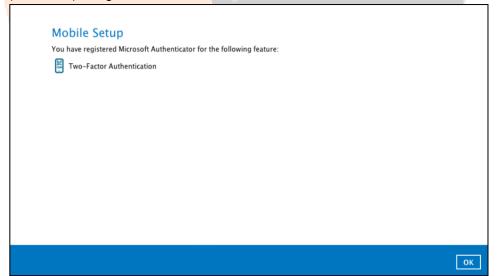
iii. Once the account is added to Microsoft Authenticator, enter the one-time passcode generated from the authenticator app to Backup247 Advanced Client (B247PRO).



Example of the one-time passcode generated:



iv. The device is successfully registered for TOTP 2FA in Backup247 Advanced Client (B247PRO) using Microsoft Authenticator. Click **OK** to continue.





Method 2: Enter Code Manually

i. Tap OR ENTER CODE MANUALLY.



ii. Click the **Show Secret Key** link in the Backup247 Advanced Client (B247PRO) to display the Secret Key which must be entered manually in the Microsoft Authenticator.

Show Secret Key Enter one-time passcode generated from authenticator app (00:00:17) Display name:
Cancel
Secret Key: ZUGD UWSE UFAH FOI4 Enter one-time passcode generated from authenticator app (00:00:07) Display name: Microsoft Authenticator
Cancel



iii. On the Microsoft Authenticator app, input an account name, then enter the displayed Secret Key in the Backup247 Advanced Client (B247PRO). Tap FINISH to proceed.

\leftarrow Add account
Account name
Secret key
FINISH
← Add account
MobileUser
ZUGDUWSEUFAHFOI4

iv. Once the account is added to Microsoft Authenticator, enter the one-time passcode generated from the authenticator app to Backup247 Advanced Client (B247PRO).

App Download and Device Pairing Two-Factor Authentication is enabled for helping safeguard access to your account, please use the below authenticator app to scan the QR code to complete the device registration.				
icrosoft Authenticator				
	Google Play			
	Secret Key: ZUGD UWSE UFAH FOI4 Enter one-time passcode generated from authenticator app 8 3 6 3 7 9 (00:00:18) Display name: Microsoft Authenticator			



Example of the one-time passcode generated:



v. The device is successfully registered for TOTP 2FA in Backup247 Advanced Client (B247PRO) using Microsoft Authenticator. Click **OK** to continue.



7. After successful pairing, the following screen will appear.



PRO Trial Version	fre	ee_trial_isaac 🎴 English 👻	6
Backup	Backup Sets	Report	
Restore	Settings	Utilities	
All instructions are there			

6.3 Using Google Authenticator

To register a device for TOTP 2FA in Backup247 Advanced Client (B247PRO) using Google Authenticator, please follow the steps below:

1. Download and install the Google Authenticator from the Play Store for Android devices or the App Store for iOS devices.

\leftarrow			C	٢	••••
¢	Google Authenti Google LLC	cator			
3.9 ★ DK reviews	6.8 MB Rate	3+ d for 3+ @	C	50N Downlo	
	Install				
	Install	ŕ	***		
e e		** 0 ******	••••	Barta (Bar	o yau S tan yau s tan yau s tan yau s
er • • • •		0	de in	facto (17) hosper to	o yau S tan yau s tan yau s tan yau s
Stronger security with Google Authenticator	Simple setup using your cames	A unique cox	de in	in the late begins of the	

2. Launch the Google Authenticator app.



3. Set up the account by selecting from the following methods: Scan the QR code or Enter a setup key manually.

Method 1: Scan the QR code



i. Tap Scan a QR code.

- 1	÷	:				
	2					
	Setup your first account					
	Use the QR code or setup key in your 2FA settings (by Google or third-party service). If you're having trouble, go to g.co/2sv					
	Scan a QR code					
	Enter a setup key					
	Import existing accounts?					
	A II · · · · · · · · · · · · · · · · · ·					
/	Allow permission to take picture	es i	and	reco	rd vid	eo.
	Allow permission to take picture	es	and	reco	rd vid	eo.
	Allow permission to take picture	es	and	reco	rd vid	eo.
	Allow permission to take picture	es :	and	reco	rd vid	eo.
	Allow permission to take picture	es :	and	reco	rd vid	eo.
	Allow permission to take picture	es :	and	reco	rd vid	eo.
		es :	and	reco	rd vid	eo.
	Allow Authenticator to take	es i	and	reco	rd vid	80.

iii. Scan the QR code on Backup247 Advanced Client (B247PRO).

ii.

247





Place QR code within red lines





Example of the displayed QR code:

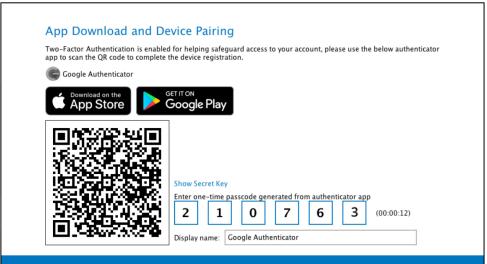
App Download and De	evice Pairing
Two-Factor Authentication is enabled app to scan the QR code to complete	d for helping safeguard access to your account, please use the below authenticator the device registration.
Google Authenticator	
	Google Play
	Show Secret Key Enter one-time passcode generated from authenticator app (00:00:07) Display name: Google Authenticator

iv. The Backup247 Advanced Client (B247PRO) account is successfully added to Google Authenticator and the mobile device is registered in Backup247 Advanced Client (B247PRO).

Google Authenticator	:	
B247Pro (MobileUser)		
210 763	4	
210700	—	
	(+)	
	<u> </u>	
·		



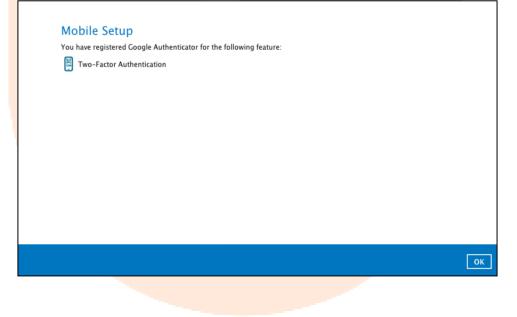
v. Once the account is added to Google Authenticator, enter the one-time passcode generated from the authenticator app to Backup247 Advanced Client (B247PRO).



Example of the one-time passcode generated:

Google Authenticator		:
B247Pro (MobileUser)		
210 763	0	
	_	

vi. The device is successfully registered for TOTP 2FA in Backup247 Advanced Client (B247PRO) using Google Authenticator. Click **OK** to continue.





	Method	2:	Enter	а	setup	key	y m	nanu	Jal	ly
--	--------	----	-------	---	-------	-----	-----	------	-----	----

÷	8 8 9
2	
Setup your first acc Use the QR code or setup key in your 2F Google or third-party service). If you're h go to g.co/2sv	A settings (by
Scan a QR code	
Enter a setup key	
Import existing accounts?	

ii. Click the **Show Secret Key** link in the Backup247 Advanced Client (B247PRO) to display the Secret Key which must be entered manually on Google Authenticator.

Show Secret Key Enter one-time passcode generated from authenticator app (00:00:02) Display name: Google Authenticator
Cancel
Secret Key: ZUGJ KYFG CKI2 WGJY Enter one-time passcode generated from authenticator app (00:00:07) Display name: Google Authenticator
Cancel



iii. On the Google Authenticator app, input an account name, then enter the displayed Secret Key in the Backup247 Advanced Client (B247PRO). Tap **Add** to proceed.

C Enter account details	
Account	
Key	
Time based 🔻	Add
Enter account details	
Account MobileUser	
. Marca	
Key ZUGJKYFGCKI2WGJY	8

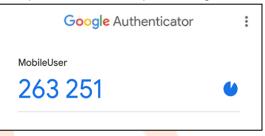
iv. Once the account is added to Google Authenticator, enter the one-time passcode generated from the authenticator app to Backup247 Advanced Client (B247PRO).

App Download and D Two-Factor Authentication is enable app to scan the QR code to complete	ed for helping safeguard access to your account, please use the below authenticator
Google Authenticator	
	Google Play
	Secret Key: ZUGJ KYFG CKI2 WGJY Enter one-time passcode generated from authenticator app 2 6 3 2 5 1 (00:00:15) Display name: Google Authenticator

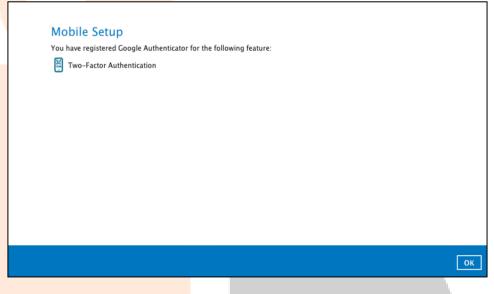
٦



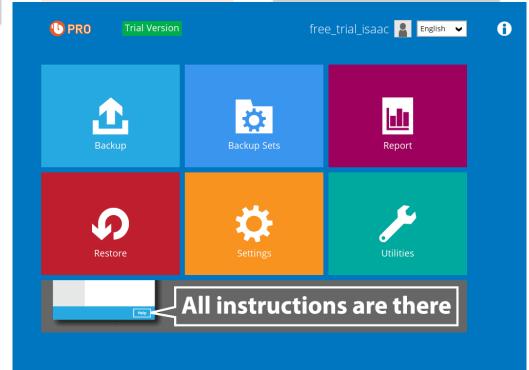
Example of the one-time passcode generated:



v. The device is successfully registered for TOTP 2FA in Backup247 Advanced Client (B247PRO) using Google Authenticator. Click **OK** to continue.



4. After successful pairing, the following screen will appear.





7 Logging in to Backup247 Advanced Client (B247PRO)

Login steps without 2FA and with 2FA using the different types of authenticator will be discussed in this chapter.

- Login to Backup247 Advanced Client (B247PRO) without 2FA
- Login to Backup247 Advanced Client (B247PRO) with 2FA using Backup247 Mobile Authenticator
 - Push Notification and TOTP 2FA
 - TOTP only 2FA
- Login to Backup247 Advanced Client (B247PRO) with 2FA using Microsoft
 Authenticator
- Login to Backup247 Advanced Client (B247PRO) with 2FA using Google
 Authenticator
- Login to Backup247 Advanced Client (B247PRO) with 2FA using Twilio

7.1 Login to Backup247 Advanced Client (B247PRO) without 2FA

When logging in to Backup247 Advanced Client (B247PRO) <u>without two-factor</u> <u>authentication</u>, please follow the steps below:

1. Double-click the icon to launch the application.



2. Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click **OK** to log in.

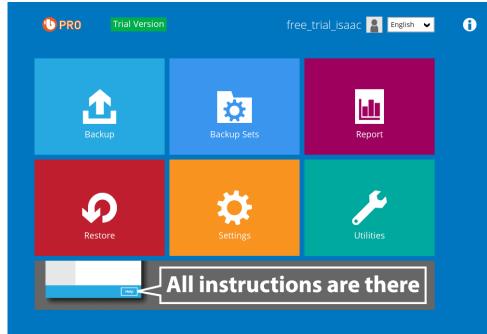
	English 🗸
Login	
Login name	
MobileUser	
Password	
•••••	
Save password	
Show advanced option	ок

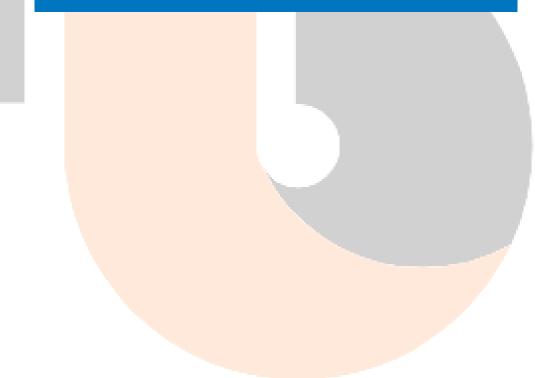


NOTE

The **Save password** option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.

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







7.2 Login to Backup247 Advanced Client (B247PRO) with 2FA using Backup247 Mobile Authenticator

When logging in to Backup247 Advanced Client (B247PRO) <u>with two-factor authentication</u> using Backup247 Mobile Authenticator, please follow the steps below:

1. Double-click the icon to launch the application.



2. Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click **OK** to log in.

		English 🗸
Login		
Login name		
MobileUser		
Password		
•••••		
Save password		
Show advanced option	ок	

NOTE

The **Save password** option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.

Please refer to the **Appendix A: Troubleshooting Login** of the Backup247 Mobile User Guide for Android and iOS if you are experiencing problems logging into Backup247 Advanced Client (B247PRO) with Two-Factor Authentication using Backup247 Mobile app.



3. Select the authentication method to continue with the login.

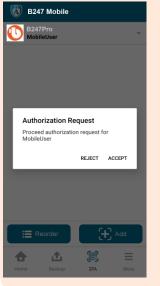
• Push Notification and TOTP (default mode)

Example of the 2FA alert screen on Backup247 Advanced Client (B247PRO) after login with correct username and password:



Push notification is the default 2FA mode. Accept the login request on the Backup247 Mobile app to complete the login.

Example of the login request sent to the Backup247 Mobile:



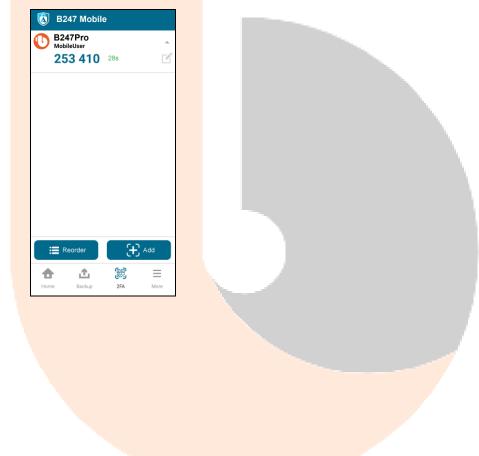




However, if push notification is not working or you prefer to use one-time password instead, click the **"Authenticate with one-time password"** link, then input the one-time password generated from Backup247 Mobile to complete the login.

Two	-Factor	r Auther	nticatio	n			
				f registered A	thenticator App		
		ionse (00:03			our Authenticato		
2	5	3	4 ·	1 0	(00:00:07)	арр. 	

Example of the one-time password generated by Backup247 Mobile:







• TOTP only

Example of the 2FA alert screen on Backup247 Advanced Client (B247PRO) after login with correct username and password.

Input the one-time password generated by Backup247 Mobile to complete the login.

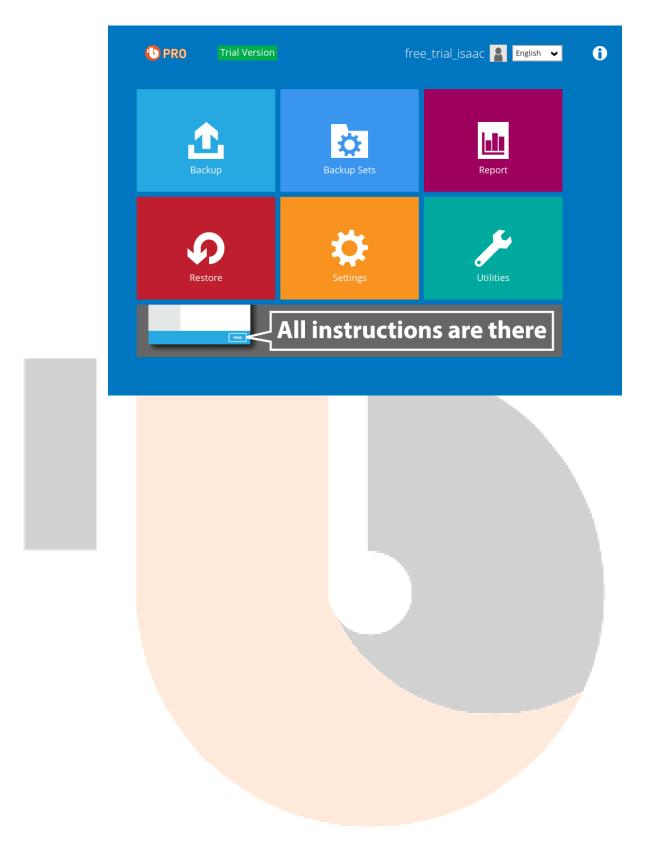
	Two-Factor Authentication Enter one-time passcode generated from auth 4 5 9 1 2	nenticator app
U	Jnable to login	

Example of the one-time password generated by Backup247 Mobile:

🔕 в	247 Mobile	•					
	P (Manual input)						
4	59 128	28s	Ľ				
	Reorder	(H	Add				
•	<u>ڻ</u>	8	Ξ				
Home	Backup	2FA	More				
					NOTE		
lf vo	u are u	nable t	o loa in	using any	of the authe	ntication me	thod, please refer to

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









7.3 Login to Backup247 Advanced Client (B247PRO) with 2FA using Microsoft Authenticator

When logging in to Backup247 Advanced Client (B247PRO) with two-factor authentication using Microsoft Authenticator, please follow the steps below:

1. Double-click the icon to launch the application.



2. Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click **OK** to log in.

PRO	
Login	
Login name	
MobileUser	
Password	
•••••	
Save password	
Show advanced option	ок
NOTE	



Enter the one-time passcode generated from the Microsoft Authenticator app.

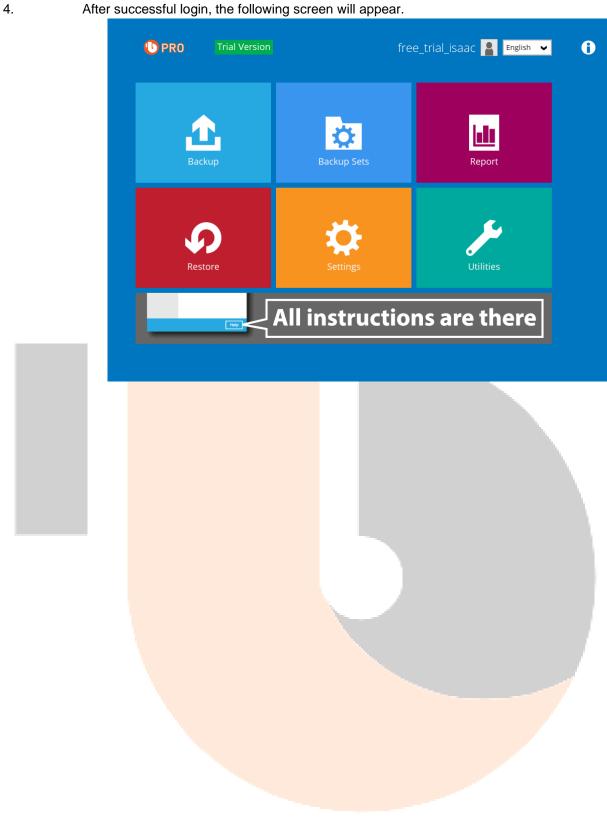
3.

Two-Factor Authentication
Enter one-time passcode generated from authenticator app (00:00:00)
Unable to login

Example of the one-time passcode generated:

← 8247Pro 7	
One-time passwords enabled You can use the one-time password codes generated by this app to verify your sign-ins	
One-time password code 594 621	
Two-Factor Authentication Enter one-time passcode generated from authenti 5 9 4 6 2	icator app 1 (00:00:21)
Unable to login	





After successful login, the following screen will appear.



7.4 Login to Backup247 Advanced Client (B247PRO) with 2FA using Google Authenticator

When logging in to Backup247 Advanced Client (B247PRO) <u>with two-factor authentication</u> using Google Authenticator, please follow the steps below:

1. Double-click the icon to launch the application.



2. Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click **OK** to log in.

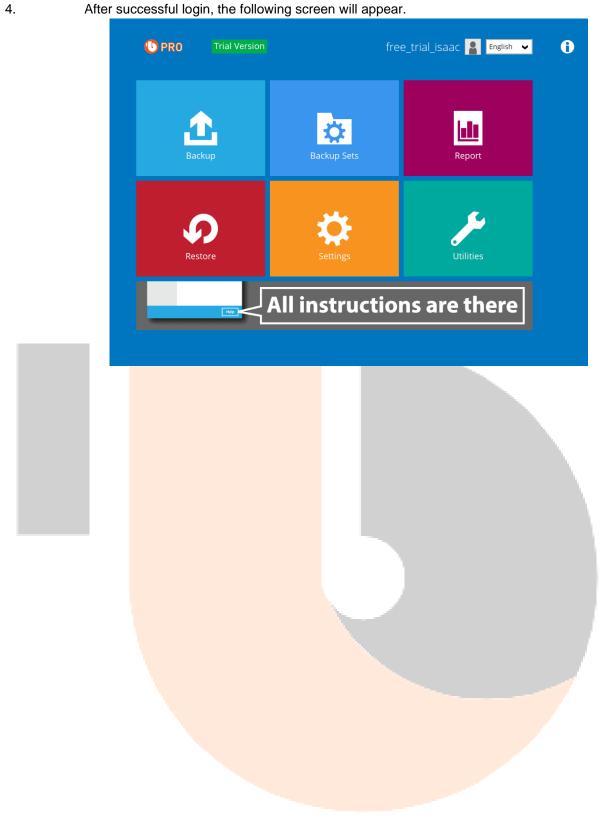
PRO	
Login	
Login name	
MobileUser	
Password	
•••••	
Save password	
Show advanced option	ок
NOTE	



Enter the one-time passcode generated from the Google Authenticator app.

Two-Factor Authentication Enter one-time passcode generated from authenticator app (00:00:00)
Unable to login
Example of the one-time passcode generated: Google Authenticator B247 Pro (MobileUser) 210 763
Two-Factor Authentication I I I I I I I I I I I I I I I I I I I
Unable to login





After successful login, the following screen will appear.



7.5 Login to Backup247 Advanced Client (B247PRO) with 2FA using Twilio

When logging in to Backup247 Advanced Client (B247PRO) for user accounts using Twilio, please follow the steps below:

1. Double-click the icon to launch the application.



2. Enter the login name and password of your Backup247 Advanced Client (B247PRO) account provided by your backup service provider. Then, click **OK** to log in.

	English	~
Login		
Login name MobileUser Password •••••• Save password		
Show advanced option	ОК	
	NOTE	

The **Save password** option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.



Select your phone number to receive the passcode.

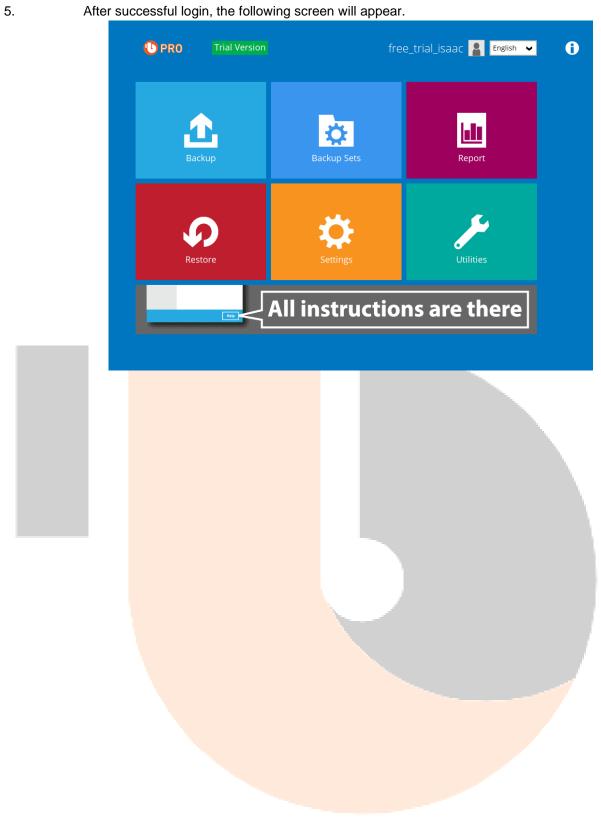
Philippines (+63) -	hber to receive passcode v ******6123	ia SMS message to con	tinue login.	



3.

Ente	er th <mark>e passcode and click Verify to lo</mark> g in.
	Two-Factor Authentication
	SMS message with a passcode was already sent to the phone number Philippines (+63) - *****6123
	Please enter the passcode to continue login. XIUA - 158074 (00:04:30)
	Resend passcode
	Verify Cancel Help





After successful login, the following screen will appear.



8 Unable to log in to Backup247 Advanced Client (B247PRO) with 2FA

Backup247 Advanced Client (B247PRO) supports **Unable to login** feature for users who were not able to accept the notification request from the Backup247 Mobile app and/or cannot obtain the TOTP code from Backup247 Mobile on the subsequent login to Backup247 Advanced Client (B247PRO).

Here are the three scenarios after clicking the Unable to login link:

- No recovery number was registered on Backup247 Mobile for the 2FA account.
- <u>"Authentication Recovery" procedure</u>

1.

Unable to perform the "Authentication Recovery" procedure

	Two-Factor Authentication	
	Please approve notification request in one of registered Authenticator App.	
	:, Waiting for response (00:04:51)	
	Authenticate with one-time password	
1	ble to login	
Jnab		
	No recovery number was registered on Backup247 Mobile for the 2FA accou	<u>int</u>
	If no recovery number was registered on Backup247 Mobile for the 2FA acc	
	then the following message will be displayed "Please contact your backup s	
	administrator for assistance" in gaining access to your Backup247 Advanced	lier
	(B247PRO) a <mark>ccount.</mark>	
	Two-Factor Authentication	
	Please approve notification request in one of registered Authenticator App.	
	^{20*} Waiting for response (00:04:53)	
	Authenticate with one-time password	

Please contact your backup server administrator for assistance.

OK



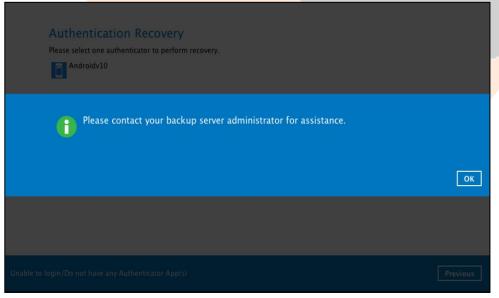
"Authentication Recovery" procedure

If a recovery number was registered on Backup247 Mobile for the 2FA account, then select the registered mobile device to perform the following "Authentication Recovery" procedure.

Authentication Recovery	
Please select one authenticator to perform recovery.	
Androidv10	
Unable to login/Do not have any Authenticator App(s)	
NOTE	
For the detailed steps in performing Authentication Recovery, please refer to the	
Appendix A: Troubleshooting Login of the Backup247 Mobile User Guide for	
Android and iOS.	

3. Unable to perform the "Authentication Recovery" procedure

If you are not able to perform the "Authentication Recovery" procedure, click the **Unable to login/Do not have any Authenticator App(s)** link, then the following message will be displayed "Please contact your backup server administrator for assistance" in gaining access to your Backup247 Advanced Client (B247PRO) account.





<complex-block>

Backup247 Advanced Client (B247PRO) main interface has nine (9) icons that can be accessed by the user:

- Profile
- Language
- Information
- Backup
- Backup Sets
- Report
- Restore
- Settings
- O Utilities



9.1 Profile

The **Profile** icon shows the settings that can be modified by the user. The features that will be shown will depend on if the user accounts was using Twilio Two-Factor Authentication in prior to upgrading to v8.5.0.0 or above and continues to use Twilio.



There are seven (7) available features:

- General
- Contacts
- Time Zone
- Encryption Recovery
- Password (Only shown for backup accounts created prior to Backup247 Advanced Client (B247PRO) v8.5.0.0 and using Twilio for two-factor authentication.)
- Authentication
- Security Settings (Only shown for backup accounts created prior to Backup247 Advanced Client (B247PRO) v8.5.0.0 and using Twilio for two-factor authentication.)

9.1.1 General

The General tab displays the user's information.

Profile General	User Information Login name MobileUser1 Display name
Contacts	
Time Zone	
Encryption Recovery	
Authentication	
	Save Cancel
Control	Description
Login name	Name of the backup account.
Display name	Display name of the backup account upon logging in to the B247CBS User Web Console.



This will be the General tab for old backup account using Twilio for two-factor authentication.

Profile	User Information		
General	Login name Display name	MobileUser1	
Contacts Time Zone Encryption Recovery	Last Succe Time: 12/14/201 IP address: 175.1	176.32.185	
Password Security Settings	Phone number (I Browser / App: C	MFA): 63- JBM	

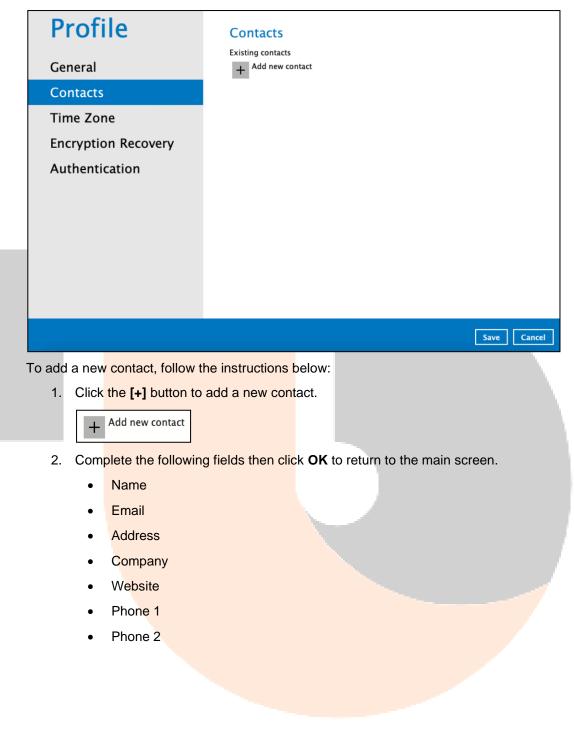
Save Cancel Help

Control	Description		
Login name	Name of the backup account.		
Display name	Display name of the backup account upon logging in to the B247CBS User Web Console.		
Time	The date and time the user last logged in.		
IP address	The IP address used to log in.		
Phone number (MFA)	The phone number where sms authentication will be sent when 2FA is enabled.		
Browser / App	The browser or app used to login in to B247CBS User Web Console or Backup247 Advanced Client (B247PRO).		



9.1.2 Contacts

This refers to the contact information of the user. You can also add multiple contacts or modify existing contact information. Having this filled in will help in sending backup and daily reports and even recovered backup set encryption key in case it was forgotten or lost.





New Contact		
Name	_	
Email	-	
Send me encrypted email (S/MIME)		
Address	1	
Company	1	
Website	1	
]	
Phone 1	1	1
]	
Phone 2		
	OK Cancel	

3. Click **Save** to store the contact information.

Profile	Contacts
General	Existing contacts samplename sample_email@mail.com
Contacts	Add
Time Zone	
Encryption Recovery	
Authentication	
	Save Cancel



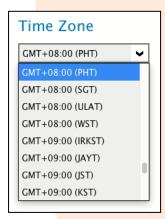
9.1.3 Time Zone

The time zone indicated.

Profile General Contacts	Time Zone GMT+08:00 (SGT) ✓
Time Zone	
Encryption Recovery Authentication	
	Save Cancel

To modify the time zone, follow the instructions below:

1. Select from the dropdown list.

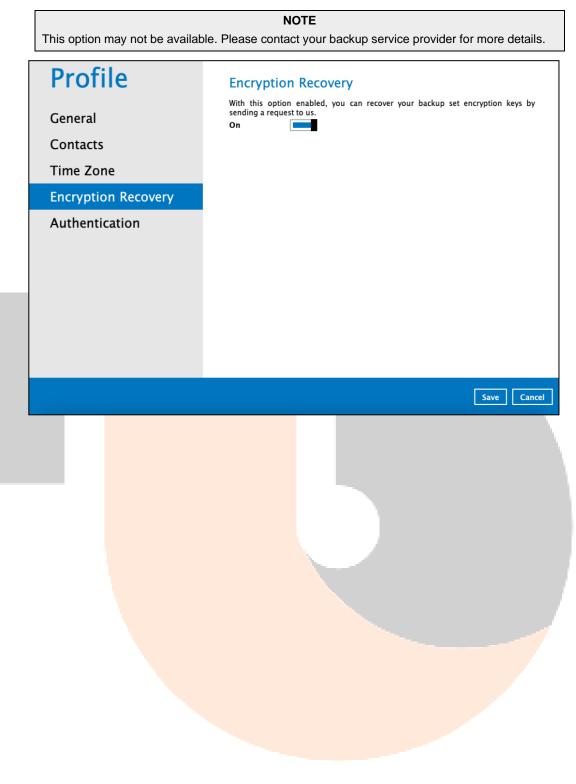


2. Click **Save** to save the updated time zone



9.1.4 Encryption Recovery

Backup set encryption key can be recovered by turning this feature on.







9.1.5 Password

The Password option is for backward compatibility with Twilio Two-Factor Authentication. It will only be visible if Twilio Two-Factor Authentication was enabled on the user account on pre-v8.5.0.0 Backup247 Advanced Client (B247PRO) versions.

Login password can be modified anytime. Tick the **Save Password** box to bypass the password entry upon opening the Backup247 Advanced Client (B247PRO).

Profile	Password
General	Change Password
Contacts	Save password
Time Zone	
Encryption Recovery	
Password	
Security Settings	
	Save Cancel Help
	NOTE
	ay not be available. This depends on the settings of your se contact Backup247 Technical Support for more information.



9.1.6 Authentication

You can use the Authentication function to:

- Change the "Password".
- Inable or disable the "Two-Factor Authentication".
- Add one or more device(s) registered for Two-Factor Authentication (2FA).

NOTE

Please refer to **Chapter 6.3.1** of the Backup247 Mobile User Guide for Android and iOS for the detailed step-by-step procedure.

- Remove one or more device(s) registered for Two-Factor Authentication (2FA).
- Re-pair mobile device with Backup247 Advanced Client (B247PRO) account.
- View details of the "Last Successful Login" for Password Lock and Two-Factor Authentication (2FA).

NOTE

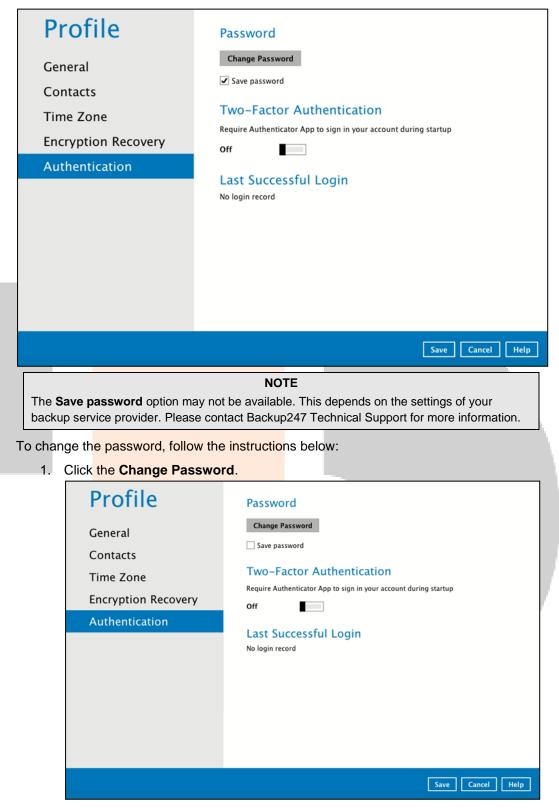
For Two-Factor Authentication (2FA), you can register your mobile device on both Backup247 Mobile app and a third-party authenticator apps (e.g., Authy, Duo, Google Authenticator, Microsoft Authenticator, LastPass Authenticator, iOS 15 Built-in Two-Factor Authenticator, etc.).

Profile	Password
General Contacts Time Zone Encryption Recovery	Change Password Save password Two-Factor Authentication Require Authenticator App to sign in your account during startup
Authentication	Off Last Successful Login No login record
	Save Cancel Help



Password

Login password can be modified anytime. Tick the **Save Password** box to bypass the password entry upon opening the Backup247 Advanced Client (B247PRO).



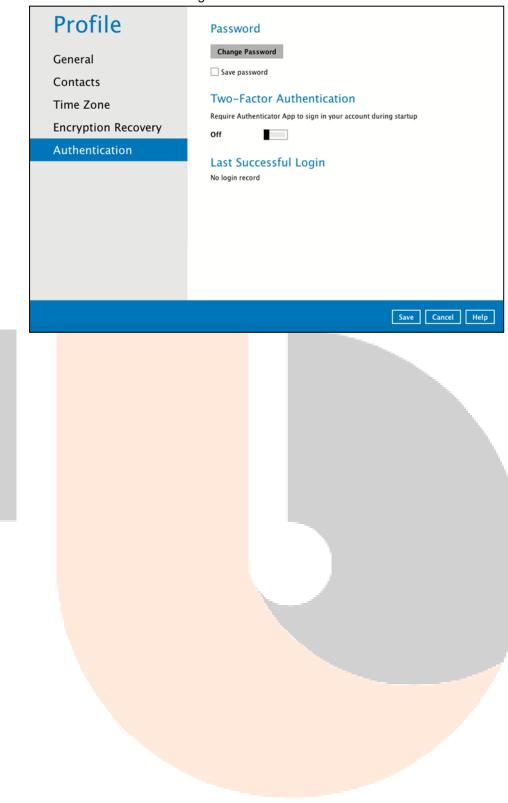


2. Enter the current password.

Change Password			
Please confirm current password			
•••••			
		Nex	Cancel
nte <mark>r the new password and re</mark> -	enter it for authentio	cation purposes. C	lick OK to
main screen.			
Change Password			
Change Password			
Change Password New Password			
Change Password New Password			
New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password			
Change Password New Password •••••• Re-enter password		0	Cancel
Change Password New Password •••••• Re-enter password		O	Cancel
Change Password New Password •••••• Re-enter password			Cancel
Change Password New Password •••••• Re-enter password		0	Cancel



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





Two-Factor Authentication

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

NOTE The Backup247 Mobile app or a third-party authenticator apps is needed for 2FA.

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

Profile	Password
General	Change Password
Contacts Time Zone	Two-Factor Authentication
Encryption Recovery	Require Authenticator App to sign in your account during startup
Authentication	Last Successful Login
	No login record
	Save Cancel Help

2. Swipe lever to the right to turn it on.

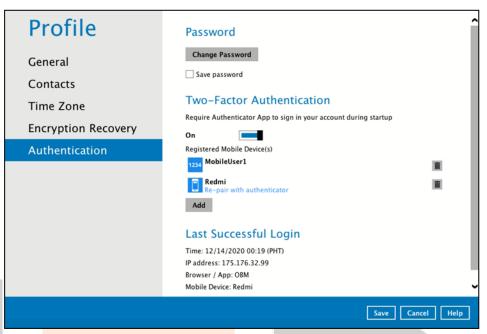
For the detailed step-by-step procedure on how to add a mobile device, please refer to **Chapter 6.3.1** of the Backup247 Mobile User Guide for Android and iOS.

Profile	Password
General Contacts Time Zone Encryption Recovery	Change Password ✓ Save password Two-Factor Authentication Require Authenticator App to sign in your account during startup
Authentication	On Registered Mobile Device(s)
	Add Last Successful Login No login record
	Save Cancel Help



To remove a mobile device, follow the instructions below:

1. Click the in button on the left side of the registered mobile device. In this example, we are going to delete the mobile device named "MobileUser1".

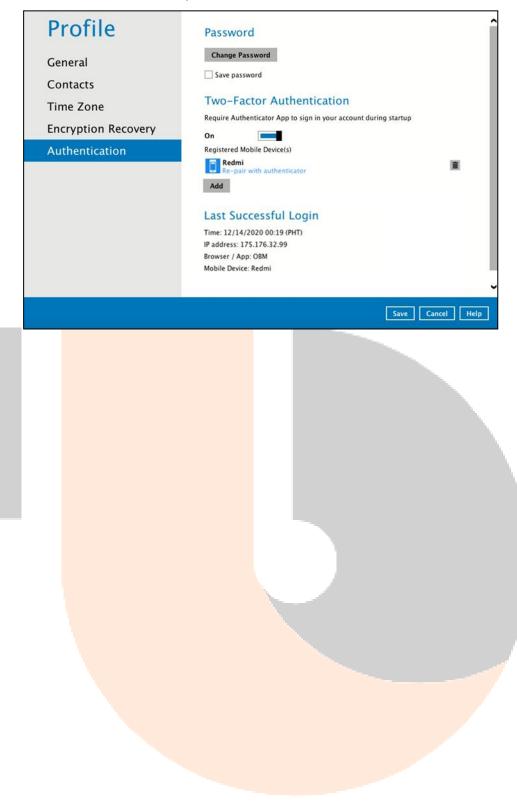


2. A confirmation message will appear, click Yes to proceed. Otherwise, click No.

Profile	Password
General	Change Password
Contacts	Save password
	Two-Factor Authentication
Time Zone	Require Authenticator App to sign in your account during startup
	Yes No
	Yes No Last Successful Login Time: 12/12/2020 22:35 (PHT)
	Last Successful Login Time: 12/12/2020 22:35 (PHT) IP address: 175.176.32.5
	Last Successful Login Time: 12/12/2020 22:35 (PHT)
	Last Successful Login Time: 12/12/2020 22:35 (PHT) IP address: 175.176.32.5 Browser / App: OBM



3. Mobile device is successfully removed.



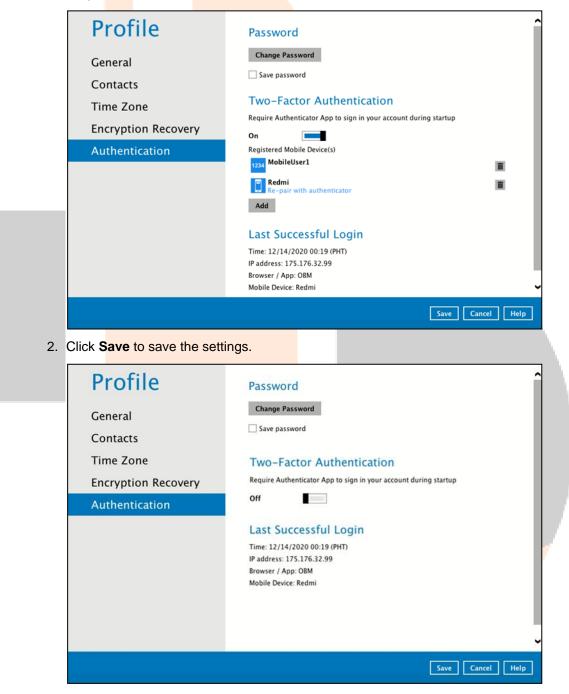


To disable the two-factor authentication feature, follow the instructions below:

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.

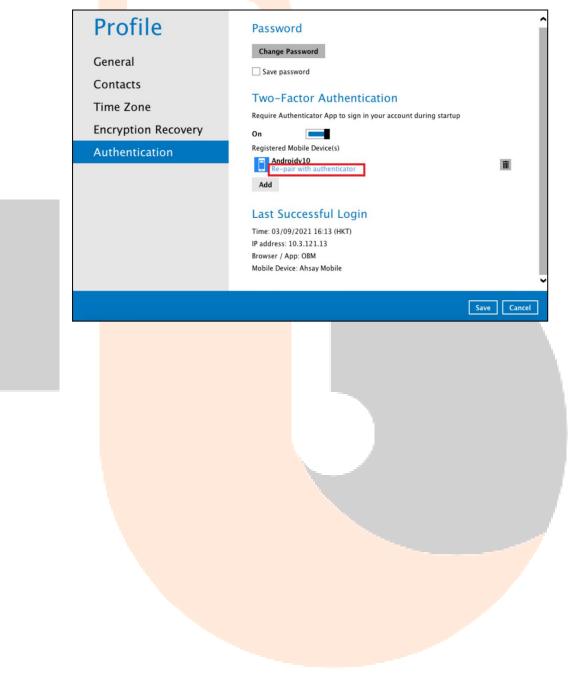




Re-pair with authenticator

Backup247 Advanced Client (B247PRO) supports "Re-pair with authenticator" feature that enables user to re-pair their Backup247 Advanced Client (B247PRO) account with Backup247 Mobile Authenticator as long as the mobile device used for the 2FA is still registered in the Backup247 Advanced Client (B247PRO). This feature is used when:

- 1. The registered profile for the 2FA is removed from the Backup247 Mobile app
- 2. The Backup247 Mobile app is accidentally uninstalled from the mobile device





Last Successful Login

Displays the Date, Time, IP address, and Browser / App the user last logged in and the registered Mobile Device.

- Time the date and time the user last logged in.
- IP address the IP address used to login.
- Browser / App the browser or app used to login to B247CBS User Web Console or Backup247 Advanced Client (B247PRO).
- Mobile Device the name of the device used for authentication when 2FA is enabled.

Profile	Password
General Contacts Time Zone	Change Password Save password Two-Factor Authentication
Encryption Recovery	Require Authenticator App to sign in your account during startup On
Authentication	Registered Mobile Device(s) 1224 MobileUser1 Redmi Re-pair with authenticator Add
	Last Successful Login Time: 12/14/2020 00:19 (PHT) IP address: 175.176.32.99 Browser / App: OBM Mobile Device: Redmi
	Save Cancel Help

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

Profile	Password	
General Contacts Time Zone Encryption Recovery	Change Password Save password Two-Factor Authentication Require Authenticator App to sign in your account during startup	
Authentication	Off	
	Last Successful Login No login record	
	Save Cancel Help	



9.1.7 Security Settings

The Security Settings option is for backward compatibility with Twilio Two-Factor Authentication. It will only be visible if Twilio Two-Factor Authentication was enabled on the user account on pre-v8.5.0.0 Backup247 Advanced Client (B247PRO) versions.

Phone numbers that will be used for sending sms authentication will be listed here and will show the status if it is verified or not. You can also add phone numbers here that can be used for sending the sms authentication.

Profile General Contacts Time Zone Encryption Recovery Password Security Settings	Security Settings Phone numbers for SMS authentication Philippines (+63) - , Verified X Add
	Save Cancel Help
 Click the Add button. Add Select the country and 	d enter the phone number, click Add .
Security Settings Please enter a new phone nu Philippines (+63)	

Add Cancel



3. Click the **Save** button to save the phone number.

Profile General Contacts Time Zone Encryption Recovery Password	Security Settings Phone numbers for SMS authentication Philippines (+63) - , Verified Philippines (+63) - , Not verified Add
Security Settings	Save Cancel Help

9.2 Language

This option is used to change the language of the Backup247 Advanced Client (B247PRO) interface. The list of the available languages depends on the backup service provider.

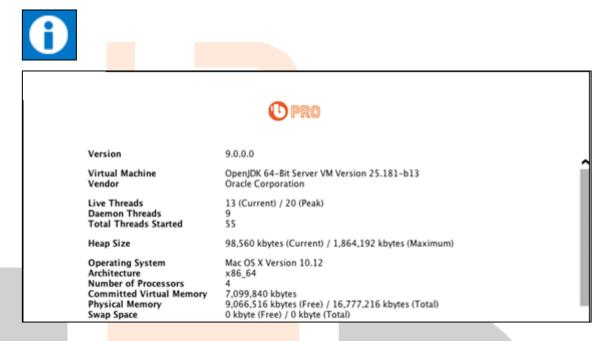
Once the language is set, it will reflect on the Backup247 Advanced Client (B247PRO) interface right away.

English	~
English	
العربية	
Euskara	
Català	
Česky	
Dansk	
Nederlands	
Suomi	



9.3 Information

The **information** icon displays the product version and system information of the machine where the Backup247 Advanced Client (B247PRO) is installed.



9.4 Backup

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



For instructions on how to start a backup, refer to Chapter 12 Run Backup Jobs.



9.5 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. It is also used to delete backup set(s).



To create or modify a backup set, follow the instructions on Chapter 10 Create a Backup Set.

Backup Set Settings

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

- General
- Source
- Backup Schedule
- Destination

(Advanced settings)

- Deduplication
- Retention Policy
- Command Line Tool
- Bandwidth Control
- Others



General

Data Backup	General Name
General	Data Backup
Source Backup Schedule	Owner admins-Mac-5
Destination Show advanced settings	
Delete this backup set	Save

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

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	
admins-Mac-5	

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.



Source

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

BackupSet-1	Backup Source	1
General	Select the files and folders that you want to backup	
Source	 ^A admin ✓ ^A Documents 	Quick or
Backup Schedule Destination	Movies Music Pictures	Shortcut
Show advanced settings	Filter Apply filters to the backup source Off I would like to choose the files to backup	Filter Advanced Backup Source
Delete this backup set		Save Cancel

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

Option	Description
Quick or Shortcut	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 no. 1: Quick or Shortcut

This option allows the user to quickly select a backup source to be backed up.

Backup Source		
Select the files and folders that you want to backup		
🔄 🏦 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		e	Description
Desktop			If Desktop is selected, all files and/or folders in the following location will be backed up: %UserProfile%/admin/Desktop
			If admin is selected, all files and/or folders located in the following locations will be backed up:
			%UserProfile%/admin %UserProfile%/Library
			If the Follow Link is enabled, the following locations will also be included to the backup job:
			%UserProfile%/LocalStorage
admin			%UserProfile%/Applications
uuiiiii			%UserProfile%/admin/Downloads
			%UserProfile%/admin/Library
			%UserProfile%/admin/temp
			The Follow Link is configured as enabled by default.
			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, Pictures), but you may choose to unselect any of each.
Documents			If Documents is selected, all files and/or folders located in the following location will be backed up:
			%UserProfile%/admin/Documents
Movies			If Movies is selected, all files and/or folders located in the following location will be backed up: %UserProfile%/admin/Movies



Music	5	If Music is selected, all files and/or folders located in the following location will be backed up: %UserProfile%/admin/Music
Pictures		If Pictures is selected, all files and/or folders located in the following location will be backed up: %UserProfile%/admin/Pictures

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

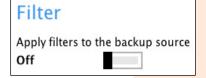
1. Select a backup source.

Backup Source
Select the files and folders that you want to backup
🔲 🏦 admin
Documents
🗌 🛃 Movies
🗌 🎜 Music
End Pictures

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

Option no. 2: Filter

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



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 On	the backup source

2. Click the [+] button to create a 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 t Include them Exclude them	op directory
Exclude all unmatched files/folders	
Match file/folder names by	
Simple comparison ends with	
O 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	
x	X
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.

0	ly this filter to all files/folders in All hard disk drives This folder only	
	/Users/admin/Desktop	Change
	ly to File 🗹 Folder	

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

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

Exist	ing filters
Y	Filter-1 /Users/admin/Desktop
¥	Filter-2 /Users/admin/Documents
A	ld



Option no. 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.

Data Backup	Backup Source	^
Folders > .vol > .poplications >	ıp Source	ř
Show files		
		OK Cancel
Delete this backup set		Save Cancel

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'.





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.

	undles	1 KB 1 KB 4 KB 4 KB 4 KB 82 KB 4 KB 1 KB 1 KB 1 KB	24/01/2017 10:00 24/01/2017 10:00	
Show files	ltems	per page 50	✓ Page 1/1 ✓	

3. Click the **OK** button to save the selection, then click the **Save** button to store 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 or Shortcut + Filter)

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

1. Choose a backup source.



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





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 ►	
O Regular expression (UNIX-style)	
Existing patterns to match	
C X	
Add	
Apply this filter to all files/folders in All hard disk drives	
0	

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

Scenario 2 (Quick or Shortcut + Advanced Backup Source)

You can use the Quick or Shortcut 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.

Bac	kup Source
	the files and folders that you want to backup Desktop
	admin
-	Documents
	Movies
🗆 J.	Music
	Pictures

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.

I would like to choose the files to backup



Audio Bundles Gaches ColorPickers ColorSync Components Compositions Contextual Me Cortextual Me Cortextual Me Cortextual Me Solid Color: thumbnail: Ø Solid Color: Solid Solor: Solid Color: Sol	 Jocalizations Jocalizations Lihumbnails Solid Aqua Blue.png Solid Aqua Dark Blue.png Solid Aqua Dark Blue.png Solid Gray Dark.png Solid Gray Vary Lipt.png Solid Gray Vero Dark.png Solid Gray Pro Dark.png Solid Kelp.png Solid Kelp.png Solid Kavender.png Solid Kavender.png Solid Kint.png Solid White.png 	1 KB 1 KB 4 KB 4 KB 4 KB 82 KB 4 KB 1 KB 1 KB 1 KB 1 KB	24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00	
Show files	ltems per pa	ige 50	✓ Page 1/1 ✓	

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

Filter
Apply filters to the backup source On
Existing filters
Filter-1 /Users/admin/Documents
Add

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.

I would like to choose the files to backup



Folders Folders Audio Audio Gathes ColorPickers ColorSync Components Compositions Contextual Me CorteMedial0 CorteMedial0 CorteMedial0 CorteMedial0 CorteMedial0 CorteMedial0 CorteMedial0 Folders Contextual Me CorteMedial0 CorteMedial0 CorteMedial0 Folders CorteMedial0 Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders Folders	Name Jocalizations Solid Aqua Blue.png Solid Aqua Dark Blue.png Solid Aqua Dark Blue.png Solid Aqua Craphite.png Solid Gray Dark.png Solid Gray Yor Dark.png Solid Gray Yro Dark.png Solid Gray Pro Dark.png Solid Kelp.png Solid Lavender.png Solid Lavender.png Solid Mint.png Solid White.png	Size 1 KB 1 KB 1 KB 4 KB 4 KB 4 KB 1 KB 1 KB 1 KB	Date modified 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00 24/01/2017 10:00	
✓ Show files	Items per	page 50	✔ Page 1/1 ✔	

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





Backup Schedule

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

General Source Backup Schedule	Schedule Run scheduled backup for this backup set On Existing schedules Backup Schedule Daily (Everyday at 20:00)
Destination Show advanced settings	
Delete this backup set	Save Cancel

To configure a backup schedule, follow the steps below:

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

Schedule	
Run scheduled backup for this b	oackup set
Existing schedules Backup Schedule Daily (Everyday at 20:00) Add	

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

Existi	ng schedules
▦	Backup Schedule Daily (Everyday at 20:00)
Ad	d

- 3. In the New Backup Schedule window, configure the following backup schedule settings.
 - Name the name of the backup schedule.
 - **Type** the type of the backup schedule. There are four (4) different types of backup schedule: Daily, Weekly, Monthly and Custom.



• **Daily** – the time of the day or intervals in minutes/hours when the backup job will run.

Name								
Daily	/-1							
Туре								
Daily	/	~						
Start	back	up						
at	~	00	~	: 00	•			
Stop								
until	full	backu	n cor	nnlet	be	-		

Weekly – the day of the week and the time of the day or intervals in minutes/hours when the backup job will run.

New Backup Schedule
Name
Weekly-1
Туре
Weekly 💙
Backup on these days of the week │ Sun │ Mon │ Tue │ Wed │ Thu │ Fri ✔ Sat
Start backup
at 🗸 00 🖌 : 00 🖌
Stop
until full backup completed 🖌
Run Retention Policy after backup

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

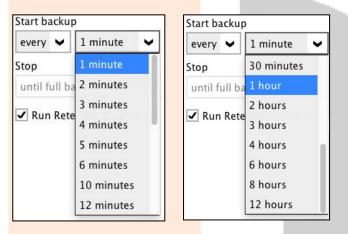
New Backup Schedule	
Name Monthly-1	
Туре	
Monthly V	
Backup on the following day every month	
• Day 1	
🔘 First 👻 Sunday 👻	
Start backup at	
$00 \checkmark : 00 \checkmark$ on the selected days	
Stop	
until full backup completed 🖌	
Run Retention Policy after backup	



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

New Backup Schedule
Name
Custom-1
Type Custom
Backup on the following day once
2020 December 🖌 31 🖌
Start backup at
Stop
until full backup completed 🖌
✓ Run Retention Policy after backup

- 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.

New Backup Schedule	New Backup Schedule
Name Weekly-1	Name Weekly-1
Type Weekly 🖌	Type Weekly 🖌
Backup on these days of the week ☐ Sun ✔ Mon ✔ Tue ✔ Wed ✔ Thu ✔ Fri ☐ Sat	Backup on these days of the week Sun Mon Tue Wed Thu Fri Sat
Start backup every V 4 hours V	Start backup at V 21 V: 00 V
Stop until full backup completed ⊌	Stop until full backup completed 🖌
Run Retention Policy after backup	Run Retention Policy after backup



Figure 1.2

Figure 1.1 – Periodic scheduled every 4 hours Monday - Friday for business hours **Figure 1.2** – Normal schedule run at 21:00 or 9:00 PM daily on Saturday and Sunday for 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.

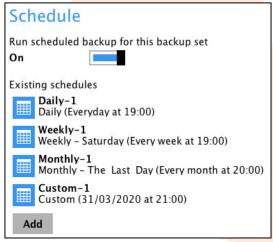
For example, if a backup has 100GB file size which will take approximately 15 hours to complete on your environment, but you set the "stop" after 10 hours, the file will be partially backed up and cannot be restored. The next backup will upload the files from scratch again.

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.

- Run Retention Policy after backup if enabled, the Backup247 Advanced Client (B247PRO) will run a Retention Policy job to remove files from the backup destination(s) which have exceeded the Retention Policy after performing a backup job.
- 4. Click the **OK** button to save the configured backup schedule settings.
- 5. Click the **Save** button to save settings.

NOTE: Multiple backup schedules can be created.





Destination

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

Data Backup	Destination
General	Backup mode Sequential
Source	Existing storage destinations
Backup Schedule	Host: 10.90.30.22:80
Destination	
Show advanced settings	
Delete this backup set	Save Cancel

There are two (2) types of backup mode:

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. Maximum number of concurrent backup destinations can be configured. 	Requires more resources in the local machine (e.g. memory, CPU, bandwidth, etc.) to complete a backup job.



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

1. Click the **Add** button.



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

New Storage Destination /	Destin	ation Poo
Name		
B247CBS		
Destination storage		
G B247CBS	~	
G 8247CB5		
GoogleDrive-1		
Local / Mapped Drive / Removable Drive		

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.

Change

4. Click the **OK** button to save the added storage destination, then click the **Save** button to save the updated backup mode and the added storage destination.



To continue on with the menu, click the **Show advanced settings** link to modify the **Deduplication**, **Retention Policy**, **Command Line Tool**, **Bandwidth Control**, and other configurable items under the **Others** tab.

Data Backup	Destination
General	Backup mode Sequential
Source	Existing storage destinations
Backup Schedule	G Host: 10.90.30.22:80
Destination	Add
Show advanced settings	
Delete this backup set	Save Cancel

Deduplication

Starting with Backup247 Advanced Client (B247PRO) v9.0.0.0 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.



Sample Backup Set General Source Backup Schedule Destination Deduplication Retention Policy Command Line Tool Bandwidth Control Others Hide advanced settings	Deduplication On https://www.initiation.com Deduplication scope I ame file path within the same backup set I all files within the same backup set Bock size I dut https://www.initiation.com Bock size I dut https://www.initiation.com I digrate existing data to latest version	
Delete this backup set	Sve Carcel	





There are two (2) types of Deduplication scope:

Deduplication Scope	Description
Same file path within the same backup set	Deduplication will be applied to the duplicated contents within a file during the current backup job
All files within the same backup set	Deduplication will be applied across different files in the backup set.

NOTE

For more details about the **Deduplication** feature, refer to the B247CBS v9 New Features Supplemental document.

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.

Choose Your Backup Options	
Data Backup	
Backup set type File	
Destinations G 8247CB5 (Host: 10.3.121.17:80)	
✓ G BC47CBS (H05: 10.5.121.17:80) ✓ G CoogleDrive-1	
Migrate Data	
Retention Policy	
Run Retention Policy after backup Hide advanced option	
Previous Backup Cancel	

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

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.

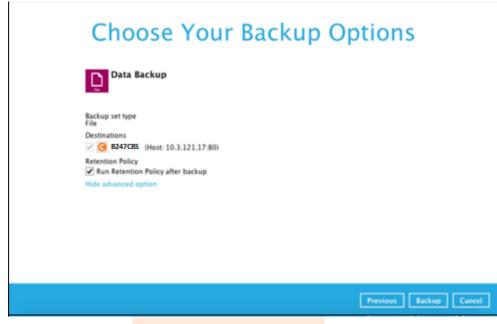


NOTE

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

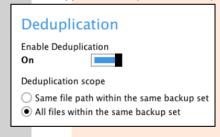


Below is an example of a backup set with Deduplication setting Off (disabled).

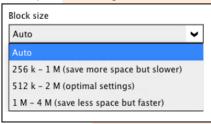


To configure the Deduplication settings, follow the steps below:

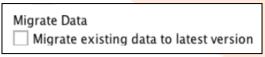
1. Select a type of Deduplication scope.



2. Click the drop-down button to select the block size that will be used for the deduplicated data. This option is configured to use "Auto" by default.



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



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



Retention Policy

When the Backup247 Advanced Client (B247PRO) 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.

Retention Area is a 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 before 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., B247CBS, local drive, SFTP/FTP, and cloud storage) are cleared by the Retention policy job.

The default Retention Policy setting for a File Backup Set is 7 days, but the appropriate Retention Policy setting depends on individual, contractual, or regulatory requirements.

General Source Backup Schedule Destination Deduplication	Retention Policy How to retain the files in the backup set, which have been deleted in the backup source Simple Advanced Keep the deleted files for Day(s) V	
Retention Policy		
Command Line Tool		
Bandwidth Control		
Others		
Hide advanced settings		
Delete this backup set	Save Cancel	
		-

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:

Туре	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.



Control	Simple	Advanced
Backup Jobs	Can keep the deleted files within 1 to 365 backup job(s)	Not applicable
Days	Can keep the deleted files within 1 to 365 day(s)	Can keep the deleted files within 1 to 365 day(s)
Туре	Not applicable	 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 will be 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. Select **Simple** from the options, then click the drop-down button to define the number of day(s) or job(s) which the deleted files will be retained. This is configured as seven (7) days by default.

Retention Policy	
How to retain the files in the backup set, which have been deleted in the backup source Simple 	
Advanced	
7 V Day(s)	

4. 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. Select **Advanced** from the options, then click the **[+]** button to create.

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
+ Add new advanced retention policy

4. Assign a desired name to the Retention Policy.

New Retention Policy	
Name	
Daily-1	

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



6. Click the drop-down button to specify the period on which the Retention Area will keep the deleted files in the backup set.

The past r	mber of days on which different versions of your files are retained	ed
1	~	
1		
2		
3		
4		
5		
6		
7		
8		



7. Click the **OK** button to store the configured advanced Retention Policy, then click the **Save** button 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:

Name					
Daily-1					
Type Daily	~				
The past n 7	umber of days	on which d	ifferent versio	ons of your fil	es are retainec

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

Name
Weeky-1
Type Weekly
The days within a week on which different versions of your files are retained □ Sun □ Mon □ Tue □ Wed □ Thu □ Fri ✔ Sat
The number of weeks to repeat the above selection

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

Monthly-1					
Type Monthly V The day within a	month on w	hich diffe	ent versions	of your files are re	etainec
● Day 1 ♥					
 Day 1 First 	Sunday	>			
		♥ Deat the a	oove selection	n	



• **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 Day 1 	quarter on w	vhich d	lifferer	nt versio	ons of y	our files are reta
🔿 First 🖌 🖌	Sunday	~				
○ First v Months of quart		¥				

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

Name		
Yearly-1		
Туре		
Yearly 🗸	1	
	1	
The day within	a yea	r on which different versions of your files are retain
 January 	~	
• Day 1	¥	
O First	¥	Sunday 🖌 🖌
O Sunday	¥	of Weekl 🛩
The number of	years	to repeat the above selection
100		

NOTE: 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 $\ensuremath{\mathsf{source}}$

Simple
 Advanced

Existing advanced retention policies

Daily-1 Daily	
Weeky-1 Weekly	
Monthly-1 Monthly	
Quarterly-1 Quarterly	
Yearly-1 Yearly	
Add	



There are three (3) ways to run the Retention Policy job:

- Backup Scheduler
- Manual Backup
- Space Freeing Up

Backup Scheduler (Recommended)

To run a Retention Policy job after a scheduled backup job, follow the steps below:

1. Click the **Backup Schedule** tab in the backup set settings.

Ceneral Source Backup Schedule Destination Show advanced settings	Schedule Run scheduled backup for this backup set On Backup Schedule Backup Schedule Daily (Everyday at 20:00) Add	
Delete this backup set	Save Cancel	



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

Data Backup General Source Backup Schedule Destination Show advanced settings	Schedule Run scheduled backup for this backup set On Existing schedule Backup Schedule Daily (Everyday at 20:00) Add
Delete this backup set	Save

3. In the Backup Schedule window, select 'Run Retention Policy after backup' to run a Retention Policy job after a scheduled backup job.

	Data Rackup Backup Schedule Name Backup Schedule	
	Type Daily Start backup at 20 Stop Until full backup completed Run Retention Policy after backup	
Delete th	is backup schedule	OK
Delete th	is backup set	Save Cancel



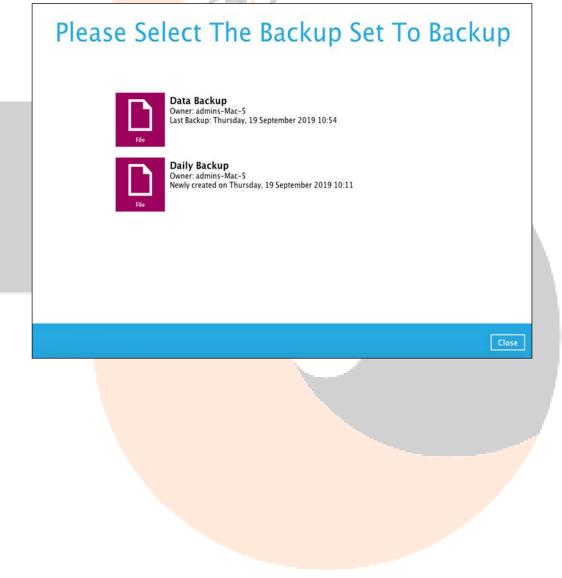
Manual Backup

To run a Retention Policy job after a manual backup, follow the steps below:

1. Click the **Backup** icon in the Backup247 Advanced Client (B247PRO) main interface.



2. Select the backup set that you would like to back up and run the Retention Policy job on.





3. Click **Show advanced option** to display other settings.

4.

Choose Your Back	up Options
Data Backup	
Backup set type File Show advanced option	
	Previous Backup Cancel
n Retention Policy after backup' to run a Choose Your Backup	
Backup set type File Destinations	
Gestinations Gestinations (Host: 10.3.121.17:80) Migrate Data Migrate existing data to latest version Retention Policy Run Retention Policy after backup	
moe aovanced option	
	Previous Backup Cancel



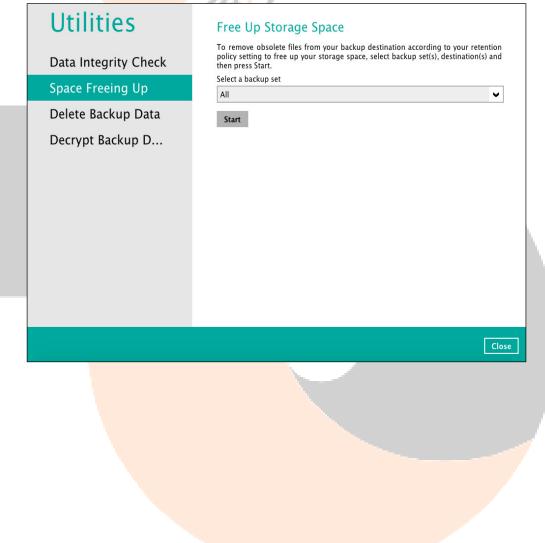
Space Freeing Up

To run a Retention Policy job manually via backup client interface, follow the steps below:

1. Click the **Utilities** icon in the Backup247 Advanced Client (B247PRO) interface.

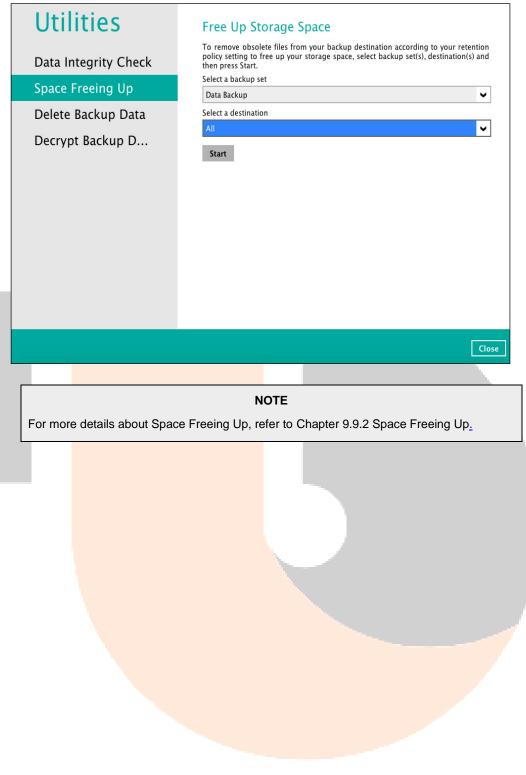


2. Select the **Space Freeing Up** tab in the Utilities settings.





3. Select the corresponding backup set and destination (e.g., B247CBS, local drive, cloud storage) where you want the Retention Policy job to run on, then click the **Start** button to run the Retention Policy.





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 Backup247) to perform a cold backup, and restarting a third-party database after a backup.

Data Backup	Pre-Backup Command Line Tool
General	Existing custom commands to run before backup + Add new pre-backup command line tool
Source Backup Schedule Destination Deduplication	Post-Backup Command Line Tool Existing custom commands to run after backup + Add new post-backup command line tool
Retention Policy	
Command Line Tool	
Bandwidth Control	
Others Hide advanced settings	
Delete this backup set	Save Cancel

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 Chapter 9.6 Report.

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", which can be viewed in the B247CBS User Web Console. Please refer to B247CBS Backup Reports for more details.

User Profile	Backup Restore				
Backup Set	Backup Report for This User				
Settings					M. (*
Report					View Today 🕑
Statistics	Backup Set	Destination	Start Time	End Time	Status
	Sample-2(1567504509206)	B247CBS	04-Sep-2019 16:20	-	Backup not yet finished
Effective Policy	Daily Backup(1957575033951)	B247CBS	04-Sep-2019 14:43	-	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 Backup247 Advanced Client (B247PRO) has enough time to complete the backup process in order to send the backup job status to the B247CBS before the machine shuts down.

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-b ackup command which can be defined as a native command or batch file.		

Pre-backup Command

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 [+] button.

Pre-Backup Command Line Tool Existing custom commands to run before backup + Add new pre-backup command line tool

2. Assign a desired name to the pre-backup command.

New	Pre-Backup	Command	Line Tool
Name			
Pre-Ba	ckup-1		

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

Working Directory



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

Command		
ls -la		

- 5. Click the **OK** button to save the created pre-backup command, then click the **Save** button to save settings.
- 6. Once the backup job is complete, click the button to display the backup report log where you can check if the pre-backup command is successful.

		Show	All	~
Type	Log		Time	
0	Start [B247Pro v9.0.0.46]	12/11	2021 13:25:24	
•	Saving encrypted backup set encryption keys to server	12/11	2021 13:25:24	^
0	Start Backup [Mgrate Delta: Incremental]	12/11	2021 13:25:25	
0	Using Temporary Directory /Users/admin/.obm/temp/1636606806827/085@1636606824692		2021 13:25:25	
0	Start running pre-commands		2021 13:25:27	
θ	(Pre-Backup-1) Is -la		2021 13:25:27	
0	(Pre-Backup-1) total 24		2021 13:25:28	
θ	[Pre-Backup-1] drwx+ 8 admin staff 272 Nov 12 13:21.		2021 13:25:28	_
0	[Pre-Backup-1] drwxr-xr-x+ 18 admin staff 612 Sep 21 17:09		2021 13:25:28	
Θ	[Pre-Backup-1] -nw-rr@ 1 admin staff 10244 Nov 12 13:22 .D5_Store		2021 13:25:28	_
0	[Pre-Backup-1] -rw 1 admin staff 0 Jan 25 2017 Jocalized		2021 13:25:28	
Θ	[Pre-Backup-1] drwx 4 admin staff 136 Nov 9 14:27 AhsayOBM		2021 13:25:28	_
0	[Pre-Backup-1] drwxr-xr-x@ 5 admin staff 170 Nov 12 13:20 Latest version		2021 13:25:28	
0	[Pre-Backup-1] drwxr-xr-x 3 admin staff 102 Sep 14 11:22 MobileBackup		2021 13:25:28	_
0	[Pre-Backup-1] drwxr-xr-x@ 5 admin staff 170 Nov 12 13:20 New updates		2021 13:25:28	
0	Finished running pre-commands		2021 13:25:28	
Q.	Downloading server file list		2021 13:25:28	
0	Downloading server file list Completed		2021 13:25:29	
•	Reading backup source from bard disk	12/11	/2021 13:25:30	
0.05	per page 50 V	Pag	e 1/663	~



Change

Post-backup Command

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

1. Click the [+] button.

Command



2. Assign a desired name to the pre-backup command.

New Post-Backup Command Line	ГооІ
Name	
Post-Backup-1	

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

- 4. Input a command to be run before a backup job.
- 5. Click the **OK** button to save the created pre-backup command, then click the **Save** button to store settings.
- 6. 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.

		Show	All	~
pe	Log		Time	
ň	[Delete Directory] /Users/admin/Pictures		2019 18:19:14	_
-	Total New Files = 15		2019 18:19:15	
-	Total New Directories = 2		2019 18:19:15	
	Total New Links = 0		2019 18:19:15	
-	Total Updated Files = 0		2019 18:19:15	
_	Total Resource Updated File = 0		2019 18:19:15	
Ð	Total Deleted Files = 1	25/09	2019 18:19:15	
Ð	Total Deleted Directories = 2	25/09/	2019 18:19:15	
Ð	Total Deleted Links = 0	25/09	2019 18:19:15	
Ð	Total Moved Files = 0	25/09	2019 18:19:15	
Ð	Saving encrypted backup file index to 1568964851295/blocks at destination AhsayCBS	25/09	2019 18:19:18	
Ð	Saving encrypted backup file index to 1568964851295/blocks/2019-09-25-18-18-49 at destination AhsayCBS	25/09/	2019 18:19:20	
	Start running post-commands	25/09	2019 18:19:20	
Ð	[Post-Backup-1] pmset sleep now	25/09	2019 18:19:20	
	[Post-Backup-1] Usage: pmset <options></options>	25/09/	2019 18:19:21	
	[Post-Backup-1] See pmset(1) for details: 'man pmset'	25/09/	2019 18:19:21	
	Finished running post-commands	25/09/	2019 18:19:21	
Ð	Deleting temporary file /Users/admin/temp/1568964851295/OBS@1568964886030	25/09	2019 18:19:24	~
Ð	Backup Completed Successfully	25/09/	2019 18:19:24	



Bandwidth Control

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

BackupSet-2	Bandwidth Control
General	Limit the transfer rate when performing backup and restore tasks Off
Source	
Backup Schedule	
Destination	
Deduplication	
Retention Policy	
Command Line Tool	
Bandwidth Control	
Others Hide advanced settings	
Delete this backup set	Save Cancel

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.

Bandwidth Control

Limit the transfer rate when performing backup and restore tasks On

2. Select a bandwidth control mode.

Mode	
Inde	pendent
🔿 Shar	e

3. Click the [+] button to create a modified bandwidth control.



Existing bandwidth controls
Add new bandwidth control

- 4. Complete the following fields:
 - Name the name of the bandwidth control set.
 - **Type** the type of enforced bandwidth control period.
 - Maximum transfer rate the maximum bandwidth used.

	Data Backiun Bandwidth Control	
	New Bandwidth Control	
	Name	
	Bandwidth Control-1	
	Type Always Only within this period	
	Maximum transfer rate	
	100 🗸 Kibit/s 🗸	
		OK Cancel
Delete th	s backup set	Save Cancel

5. Click the **OK** button to save the created bandwidth control set, then click the **Save** button to save settings.



Others

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

- Temporary Directory
- Follow Link
- OpenDirect (Not supported on macOS platform)
- Compressions
- Encryption

Temporary Directory

The Backup247 Advanced Client (B247PRO) uses the temporary directory for both backup and restore

Temporary Directory	
Temporary directory for storing backup files	
/Users/admin/temp	Change
53.88GB free out of total 79.2GB space in /Users/admin/te ✔ Remove temporary files after backup	emp

operations.

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 job. 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

- 1. 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.

To change the temporary directory, follow the steps below:

1.

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

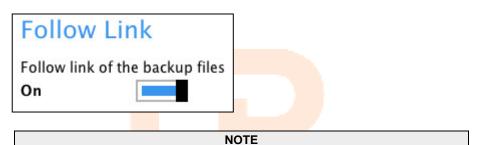
Temporary Directory	
Temporary directory for storing backup files	
/Users/admin/temp	Change
53.88GB free out of total 79.2GB space in /Users/admin Remove temporary files after backup	/temp

2. Locate the directory that you would like to use, then click **OK** to select the folder. Click the **Save** button to apply the 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.



This feature is only applicable for File Backup Sets.

OpenDirect

This feature is not supported on macOS platform.



Compressions

When this feature is enabled, the Backup247 Advanced Client (B247PRO) will compress all files before it is backed up to the backup destination(s).

For newly created backup set(s), "Fast with optimization for local" is selected by default.

elect compression type	
ast with optimization for local	~

- **3 1 1 1 1 1 1**
 - No Compression
 - Normal
 - Fast (Compressed size larger than normal)
 - Fast with optimization for local

NOTE

The Compression type can be changes 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 current encryption settings. The encryption settings can only be enabled or disabled during the creation of backup set.

Encryptio	n
Encryption key Unmask encrypt	
Algorithm	AES
Method	CBC
Key length	256 bits

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. In the Encryp<mark>tion, click the 'Unmask encryption</mark> key' link to display the encryption key of the backup set.

Ensminition lies				
Encryption key Unmask encryption				
Algorithm	AES			
Method	CBC			
Key length	256 bits			
Encryption				
Encryption key E	qP4A5d/FJI3	J MzuL0xbQ9LoCbnu09)H6GiNe	nBmJQmyA=
Encryption key E Mask encryption key	qP4A5d/FJI3	MzuL0xbQ9LoCbnu09	9H6GiNe	nBmJQmyA=
Mask encryption key Algorithm A		MzuL0xbQ9LoCbnu09	9H6GiNe	nBmJQmyA=

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. **13** in Chapter 10 Create a Backup Set.



9.6 Report

This feature allows user to run and view backup and restore reports.



There are two (2) options available for this feature:

- Backup
- Restore

9.6.1 Backup

This feature displays the backup report logs for each backup set. There are four (4) filters that can be applied on this feature:

- Date
- Backup set
- Destination
- Status

Report	Backup Report	
Backup	From To 07 V May V 2019 V 14 V May V 2019 V Go	
Restore	Backup set V Destination V Completion Status V	
	Files Backup G B247CBS Today 23:59 Completed	
	Daily Backup G E247CBS Today 23:57 Interrupted	
	Files Backup G B247CBS Today 23:56 Interrupted	
	Files Backup 🥝 B247CBS Today 23:55 Completed	
	Daily Backup 🥝 B247CBS Today 23:47 Interrupted	
	No. of records per page 50 V Page 1/1 V	
	Close	
		_



Date

Use this filter to display all the available backup report(s) within a date range.

rom	То		
08 🕶 May 🛩	2019 🗸 15 🗸	May 🛩 2019	Go
Backup set 🗸 🗸	Destination 🗸	Completion	Status
Files Backup	Local-1	Today 00:16	Completed
Files Backup	GoogleDrive-1	Today 00:16	Completed
Files Backup	B247CBS	Today 00:13	Completed
Files Backup	B247CBS	14/05/2019 23:59	Completed
Daily Backup	G B247CBS	14/05/2019 23:57	Interrupted
Files Backup	G B247CBS	14/05/2019 23:56	Interrupted
Files Backup	G 8247CB5	14/05/2019 23:55	Completed
Daily Backup	B247CBS	14/05/2019 23:47	Interrupted

Backup set

Use this filter to display all the available backup set(s) with a backup report. Then select which backup set with backup report that you would like to view.

rom	То			
08 🗸 May 🗸	2019 🗸 15 🗸	May 🖌 2019	Go	✓ Co
Backup set 🗸 🗸	Destination 🗸	Completion	Status 🗸	Status V Completed
Backup set	G 8247CBS	Today 00:25	Completed	Internated
3247Pro Backup	Local-1	Today 00:16	Completed	Interrupted
Files Backup	GoogleDrive-1	Today 00:16	Completed	Completed
Daily Backup	G B247CBS	Today 00:13	Completed	Interrupted
Files Backup	B247CB5	14/05/2019 23:59	Completed	
Daily Backup	G B247CBS	14/05/2019 23:57	Interrupted	
Files Backup	G 8247CBS	14/05/2019 23:56	Interrupted	
Files Backup	G 8247CB5	14/05/2019 23:55	Completed	
Daily Backup	G 8247CB5	14/05/2019 23:47	Interrupted	
	No	of records per page 50	~	Page 1/1 🗸



Destination

Use this filter to view the backup report for the selected storage location.

From 08 ¥	Мау	•	2019	~	To 15	~	May	•	2019	~	Go	
Backup	set		Desti	natio	n	~	Comp	letio	n	Sta	atus	~

Status

Use this filter to view all the backup report(s) with the same status (i.e., Completed, Warning, Interrupted, Interrupted with error(s), Failed and In progress).

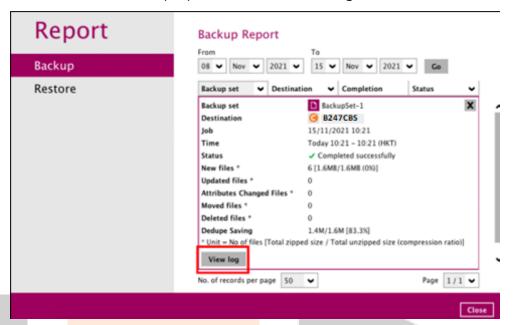
Back	up R	ep	ort										
From					То								
08 🗸	May	•	2019	•	15	•	May	•	2019	~	Go		
Backup	set		~	De	stinat	ion		~	Com	pletic	on	Status	~
D File:	s Backu	р			Loca	-1			Toda	y 01:1	11	Status	
D File:	s Backu	р			Goog	leDri	ve-1		Toda	y 01:1	LO	Completed	





To view the backup log, follow the instructions below:

1. Select and click the backup report, then click the View log button.



2. The Backup set, Destination, Log Date and Time, Status, the number of Logs per page, and Page can be filtered when viewing the backup report.

	up set BackupSet-1 💙		AhsayCBS	-
09	15/11/2021 10:21 👻	Show	All	~
Туре			Time	
0	Start [B247Pro v9.0.0.46]		2021 10:21:17	
0	Saving encrypted backup set encryption keys to server		2021 10:21:17	
0	Start Backup [Migrate Delta: Full]	15/11/2	10:21:18	
0	Using Temporary Directory /Users/admin/.obm/temp/1636942721817/OBS@1636942824919		2021 10:21:18	
0	Start running pre-commands		1021 10:21:20	
θ	Finished running pre-commands		2021 10:21:20	
0	Downloading server file list		2021 10:21:20	
0	Downloading server file list Completed		2021 10:21:21	
0	Reading backup source from hard disk	15/11/2	2021 10:21:22	
0	Reading backup source from hard disk Completed		2021 10:21:22	
0	[New Directory] /	15/11/2	2021 10:21:22	
0	[New Directory] /Users		2021 10:21:22	
0	[New Directory] /home		2021 10:21:22	
0	[New Directory] /Users/admin		2021 10:21:22	
0	[New Directory] /Users/admin/Documents		2021 10:21:22	
0	[New Directory] /Users/admin/Documents/Latest version		2021 10:21:22	
•	New Directorul //licers/admin/Decoments/New undates	10/11/2	1021 10:21-22	_
.095	per page 50 V		Page 1/2	~
				_



9.6.2 Restore

This feature displays the restore report logs for each backup set. Similar to the **Backup** tab, this feature also consists of the following filters:

- Date
- Backup Set
- Destination

Status	
Report	Restore Report
Backup	From To 08 V Nov V 2021 V 15 V Nov V 2021 V Co
Restore	Backup set 🗸 Destination 🗸 Job Status 🗸
	BackupSet-1 B247CBS Today 10:30 Completed
	Data Backup B247CBS Today 10:29 Interrupted
	Data Backup B247CBS Today 10:27 Completed
	No. of records per page 50 V Page 1/1 V
	Close

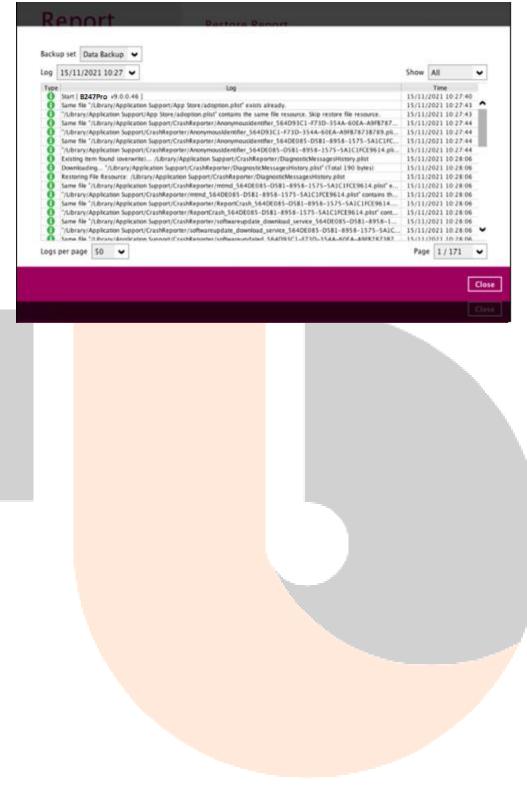
To view the restor<mark>e log, follow the instructions belo</mark>w:

1. Select and click the restore report, then click the **View log** button.

Report	Restore Report
Backup	From To 08 V Nov V 2021 V 15 V Nov V 2021 V Go
Restore	Backup set V Destination V Job Status V
	BackupSet-1 G B247CBS Today 10:30 Completed Data Backup G B247CBS Today 10:29 Interrupted
	Backup set Data Backup Destination B247CBS ; Job 15/11/2021 10:27 Time Today 10:27 - 10:28 (HKT) Status ✓ Completed successfully Downloaded files* 1 (191ME) * Unit = No of files (Download size) View log
	No. of records per page 50 V Page 1/1 V
	Close



2. The Backup set, Destination, Log Date and Time, Status, the number of Logs per page, and Page can be filtered when viewing the restore report.







9.7 Restore

This feature is used to restore backed up files to its original or alternate location.



To restore backed up files, follow the instructions on Chapter 13 Restore Data.

9.8 Settings

This feature allows user to enable the **Proxy Settings**.



There are two (2) functions available for this feature:

- Proxy
- Mobile Backup

NOTE: The Mobile Backup tab will only be available if the mobile add-on module is enabled on the user profile. Please contact your backup service provider for details.

Settings	Proxy (HTTP) Use proxy to access the Internet
Proxy	Off
Mobile Backup	
	Save Cancel



9.8.1 Proxy

When this feature is on, the Backup247 Advanced Client (B247PRO) will gain access to the internet.

To enable the Proxy Settings, follow the instructions below:

1. Slide the lever to the right to turn it on.



- 3. Click the **Test Connection** button to validate the connection.
- 4. Click the **Save** button to apply the settings.



9.8.2 Mobile Backup

The Mobile Backup tab is only available if the mobile add-on module is enabled on the user profile. Please contact your backup service provider for details.

You can use the Mobile backup function to:

• Add one or more device(s) registered for mobile backup.

NOTE Please refer to **Chapter 7** of the Backup247 Mobile 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 the mobile backup destination to:
 - new location in the same machine
 - new machine
- Remove one or more device(s) registered for mobile backup.

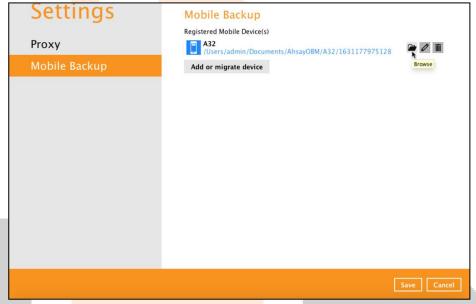
	NOTE
•	eos, documents and 2FA accounts to an alternate mobile device, the other tered first for mobile backup on Backup247 Advanced Client (B247PRO).
 Restore to a differer 	nt mobile device on the same operating system.
	nt mobile device on another operating system, i.e., Android to iOS or iOS to
Android.	
Settings	Mobile Backup
Brown	Registered Mobile Device(s)
Proxy	Users/admin/Documents/AhsayOBM/Androidv10/16364380 🔎 🖉 🔳
Mobile Backup	Add or migrate device
	Save



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

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

1. Either click the link under the registered mobile device or click the **Browse** icon on the right side of the registered mobile device.



2. A new window will be displayed, double-click the **blocks** folder. Double-click the folder named in this format "YYY-MM-DD-hh-mm-ss" which is the date and time of the backup, this contains the folders where the photos and videos are saved.

1631177975128	
	- Q Search -
Name	Date Modified
blocks	Today, 5:00 PM
blocks	
	- Q Search -
Name	Date Modified
2021-09-09-16-59-58	Today, 5:00 PM
Backup.db	Today, 5:00 PM
2021-09-09-16-59-58	
	- Q Search
Name	Date Modified
▶ 🖿 0	Today, 5:00 PM



	A Q Search
Name	Date Modified
🗃 000000.jpg	31 Dec 2017, 11:19 PM
000001.jpg	31 Dec 2017, 11:20 PM
000002.jpg	31 Dec 2017, 11:22 PM
🙀 000003.jpg	31 Dec 2017, 11:23 PM
🗎 000004.jpg	31 Dec 2017, 11:23 PM
📷 000005.jpg	31 Dec 2017, 11:24 PM

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 Backup247 Mobile app, it is strongly recommended to copy the previously backed up photos, videos, documents and 2FA accounts to the new location to prevent missing data. As some of the backed-up photos, videos, documents and 2FA accounts have already been removed from the mobile device.

In case the previously backed up photos, videos 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 Backup247 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 back up 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 Backup247 Advanced Client (B247PRO) machine, follow the instructions below:

Example: Change backup destination

from

/Users/admin/Documents/Backup247 Advanced Client (B247PRO)/%registered_mobile_device%/%backupsetID%

to

/Users/admin/Documents/MobileBackup

- 1. From the old location, secure a copy of the previously backed up photos, videos, documents and 2FA accounts.
- 2. Copy the previously backed up photos, videos, documents and 2FA accounts from the original location to the new mobile backup destination (if applicable).



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

In this example, the old mobile backup destination is /Users/admin/Documents/Backup247 Advanced Client (B247PRO)/%registered_mobile_device%/%backupsetID%.

Settings	Mobile Backup Registered Mobile Device(s)	
Proxy	A32 /Users/admin/Documents/AhsayOBM/A32/1631177975128	🖻 0, 🟛
Mobile Backup	Add or migrate device	Edit
	<u></u>	Save Cancel

- 4. A new screen will be displayed. Select the new mobile backup destination then click **Open**.
- 5. Click **Save** to store the change made.

Mobile backup destination is successfully changed to /Users/admin/Documents/MobileBackup. All mobile backups will now be saved to this destination.

Settings	Mobile Backup Registered Mobile Device(s)	
Proxy	A32 /Users/admin/Documents/MobileBackup/A32/1631177975128 🖻 🖉 🔳	
Mobile Backup	Add or migrate device	
		1
	Save Cancel	
	NOTE	
The 9/ registered mehile c	havianell and l'hankunnati DV will be appended automation	lly to

The %registered_mobile_device% and %backupsetID% will be appended automatically to the new mobile backup destination.



6. Resume the backup job.

W	B24	47	Mo	bile		\$
A 3	2					
Last	Backup	5	Ye	sterday	, 12:	04:55
	⊾ Back	kup		∳ Re	esto	ore
	⊾ Bacł	kup		စ Re	esto	ore
		¢up		P R(estc	ore

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.

If Free up space is enabled on the Backup247 Mobile app, it is strongly recommended to copy the previously backed up photos, videos and 2FA accounts to the new machine to prevent missing data. As some of the backed-up photos, videos, documents and 2FA accounts have already been removed from the mobile device.

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 backed-up photos, videos, documents and 2FA accounts on the mobile device will be backed up again from scratch.

NOTE

- If the machine is lost/stolen, changing the mobile destination is not supported as it is required to reregister your mobile devices on Backup247 Advanced Client (B247PRO) and perform backup of backed up photos, videos, documents and 2FA accounts.
- Changing the mobile backup destination to a new machine with a different operating system is supported, e.g., from a macOS machine to Window machine or Linux machine to macOS machine etc.



To change the mobile backup destination to a new machine, follow the instructions below: **Example:** Changing the mobile backup destination from an old macOS machine to a new Windows machine.

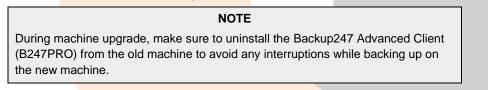
1. On the new machine, install Backup247 Advanced Client (B247PRO).



2. Copy the **.obm** folder from the old macOS machine to the new Windows machine.

ne .DS_Store .anydesk	Date Modified 6:37 PM 4/29/21 11/29/20	Size 18 KB	Kind Document Folder	
DS_Store	6:37 PM 4/29/21	18 KB	Document	
	4/29/21			
anydesk			rolaei	
anyaoak			Folder	
.bash_sessions	6:35 PM		Folder	
			Folder	
	4/27/21		Folder	
	4/27/21		Folder	
.obm	6:39 PM		Folder	
📄 Alternate Folder	3/17/21		Folder	
C/\Temp\	4/28/21		Folder	
🛅 Desktop	4/27/21		Folder	
Documents	4/27/21		Folder	
O Downloads	3:35 PM		Folder	
	.obm Alternate Folder C/\Temp\ Desktop Documents	4/28/21 4/27/21 .obm 6:39 PM Alternate Folder 3/17/21 C/\Temp\ 4/28/21 Desktop 4/27/21 Documents 4/27/21 Downloads 3:35 PM	4/28/21 4/27/21 .obm 6:39 PM Alternate Folder 3/17/21 C/\Temp\ 4/28/21 Desktop 4/27/21 Documents 4/27/21 Downloads 3:35 PM	4/28/21 Folder 4/27/21 Folder 4/27/21 Folder .obm 6:39 PM Folder Alternate Folder 3/17/21 Folder C/\Temp\ 4/28/21 Folder Desktop 4/27/21 Folder Documents 4/27/21 Folder Ownloads 3:35 PM Folder

3. Copy the previously backed up photos, videos, documents and 2FA accounts from the old machine to the new mobile backup destination.



 Restart the Backup247 Advanced Client (B247PRO) Services because copying the .obm folder on a newly installed Backup247 Advanced Client (B247PRO) will not trigger the MBS.

E Senicas File Action View	. Hulp					- 0	×
**	2 Ge 🖬 💷 🕨 🖷 🖬 🕪 .						
Services (Local)	Server Lorel						
	Ahay Online Backup Manager Services Standarsvice Eastant Powersian	Name Name Name Name Name Name	Description Microsoft AET Francescok NGDU Provides User Account Control valid This artists Respiration Addes Flash Ranters for activating conversion		Stantup Type Menual Menual Menual	Long On As Local System Local System Local System Local System	j
	Description Writis Bachup, Certinsana Bachup and Scheduler Services for Absay Deline Bachup Menager	Albiyyn Router Service Any Delt Service Any Delt Service Age Residuess Application Information	Routes Alloyn messages for the loc Any/baik support service. Outs apps mody for use the first time. Determines and varifies the identity Facilitates the running of interactive	Running	Manual (Tog., Automatic Manual Manual (Tog., Manual (Tog.,	Local Service Social System Social System Gocal Service Local System	



5. Login to **Backup247 Advanced Client (B247PRO)**. Enter the login name and password of your Backup247 Advanced Client (B247PRO) account. Then, click **OK** to login

		English 🗸
Login		
Login name		
MobileUser		
Password		
•••••		
Save password		
	ОК	

- 6. Go to Settings > Mobile Backup. Click the Edit icon on the right side of the registered mobile device.
- 7. Change path for Backup Destination screen will be displayed. Select the new mobile backup destination then click OK.

In this example, the new mobile backup destination will be **D:\MobileBackup1**.

Settings Proxy Windows Event Log	Mobile Backup Registered Mobile Device(s) Redmi Note 8 /Users/admin/Documents/MobileBackup1/Redmi Note 8/162121 @ 2 11 Add or migrate device
Mobile Backup	Change path for Backup Destination × Look (n: Load Disk (D:) • Recent • Desktop • Desktop • This PC • Network Folder game :: D:WobideBackup1 OK Cancel •
	Save Cancel Help

8. Click **Save** to store the change made.



Mobile backup destination is successfully changed to **D:\MobileBackup1**. All mobile backups will now be saved to this destination.

Settings	Mobile Backup	
Proxy	Registered Mobile Device(s)	
Windows Event Log	C. MobileBackup1\Redmi Note 8\1621332909429 Add or migrate device	
Mobile Backup	Add of Imgrate device	
	Save Cancel Help	
The 9/registered mehile a	NOTE	the
new mobile backup destina	levice% and %backupsetID% will be appended automatically to ation.	lne
Paguma the backup ich		
Resume the backup job.		
B247 Mobile Image: Comparison of the state of the sta		
Last Backup a minute ago		
♪ Backup		
tome Backup 2FA More ►		
	NOTE	

For instructions on changing the mobile backup destination of:

9.

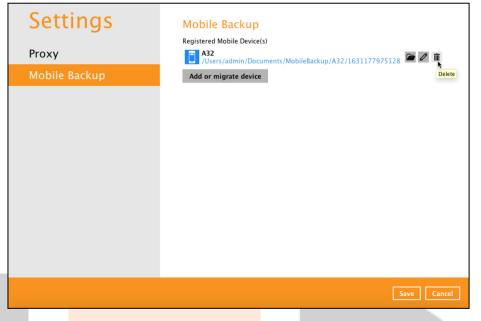
a Windows machine to a macOS machine, please refer to Chapter 10.8.3 of the Backup247 Advanced Client (B247PRO) v8 Quick Start Guide for Windows.



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

To remove a mobile device, follow the instructions below:

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



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

	Mobile Backup
Proxy	Registered Mobile Device(s) A32
	A32 /Users/admin/Documents/MobileBackup/A32/1631177975128
feature?	u want to delete the registered Mobile Device for Mobile Backup e backed-up mobile device data will also be deleted. Yes No
	Save



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

Sett Proxy Mobile	ings Backup	Mobile Backup Registered Mobile Device(s) Add or migrate device	
		Save Cancel	





9.9 Utilities

This feature allows user to perform quality check on the backed up data, free up storage from obsolete files, delete, and decrypt backed up data.



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

- Data Integrity Check
- Space Freeing Up
- Delete Backup Data
- Decrypt Backup Data

9.9.1 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).

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

Settings	Function
Option 1 Run Cyclic Redundancy Check (CRC) during data integrity check Rebuild index Start	For checking of index and data.
Option 2 Run Cyclic Redundancy Check (CRC) during data integrity check Rebuild index Start	For checking of index and integrity of files against the checksum file generated at the time of the backup job.
Option 3 Run Cyclic Redundancy Check (CRC) during data integrity check Rebuild index Start	For checking and rebuilding of index.



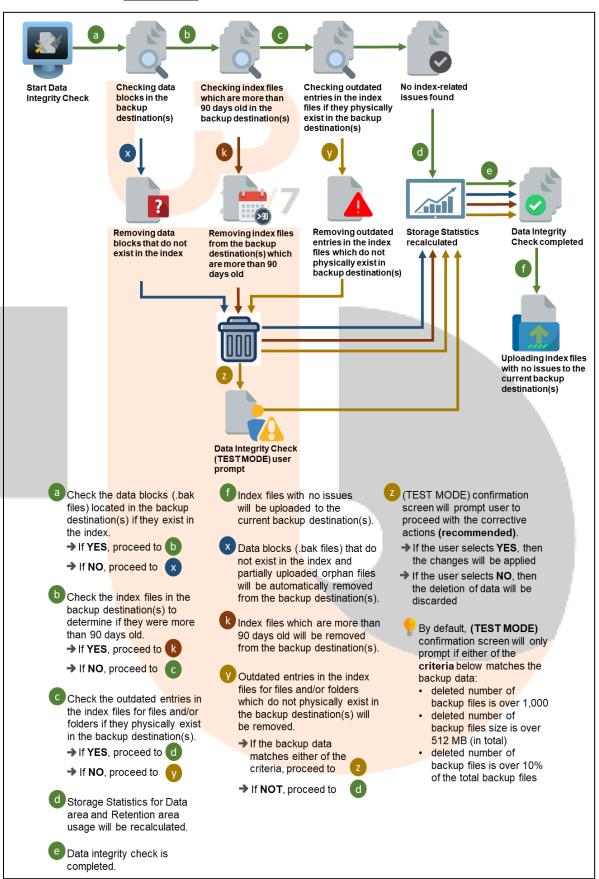
Option 4	For checking of index, integrity of files
Run Cyclic Redundancy Check (CRC) during data integrity check	against the checksum file generated at the
Rebuild index	time of the backup job and rebuilding of
Start	index.

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

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

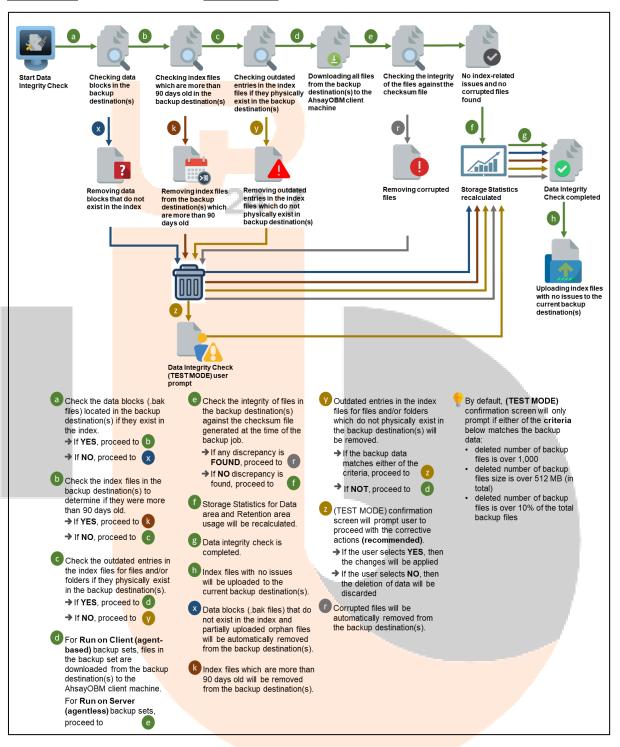


Option 1 - Data Integrity Check (DIC) Process with Run Cylic Redundancy Check (CRC) and Rebuild index **<u>DISABLED</u>** (Default mode)



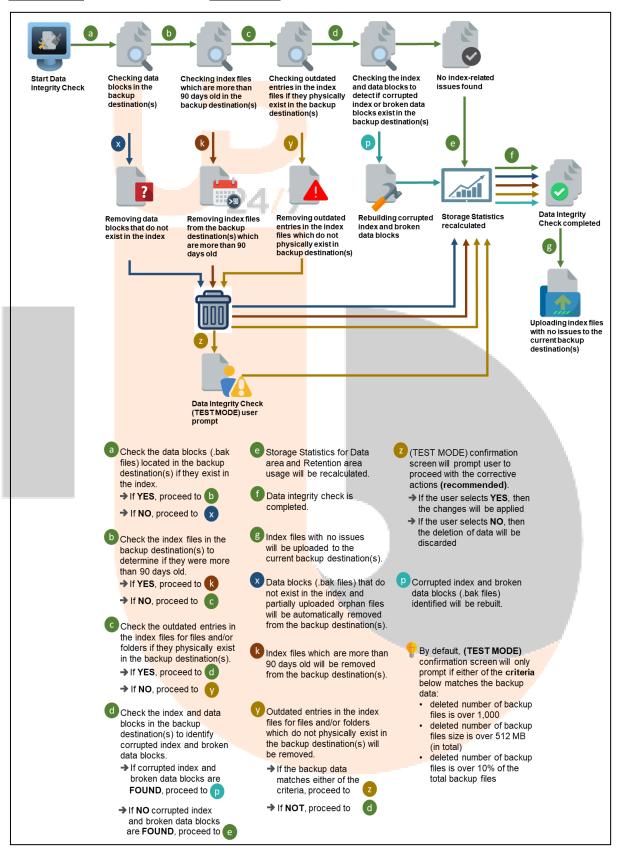


Option 2 - Data Integrity Check (DIC) Process with Run Cylic Redundancy Check (CRC) **ENABLED** and Rebuild index **DISABLED**



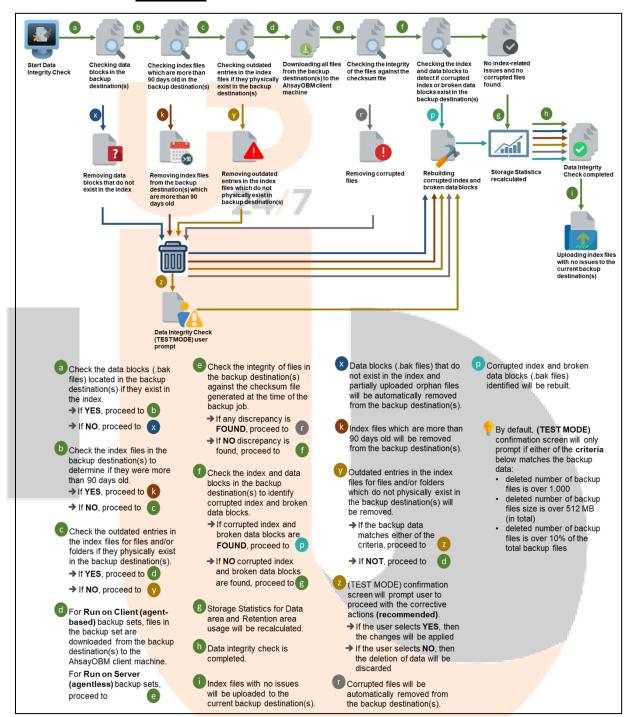


Option 3 - Data Integrity Check (DIC) Process with Run Cylic Redundancy Check (CRC) **DISABLED** and Rebuild index **ENABLED**





Option 4 - Data Integrity Check (DIC) Process with Run Cylic Redundancy Check (CRC) and Rebuild index **ENABLED**





Utilities	Data Integrity Check Perform health check for your backed up data to ensure the data integrity and
Data Integrity Check	restorability Select a backup set
Space Freeing Up Delete Backup Data Decrypt Backup D	All Rebuild index Start
	Close

NOTES

- 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.



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).

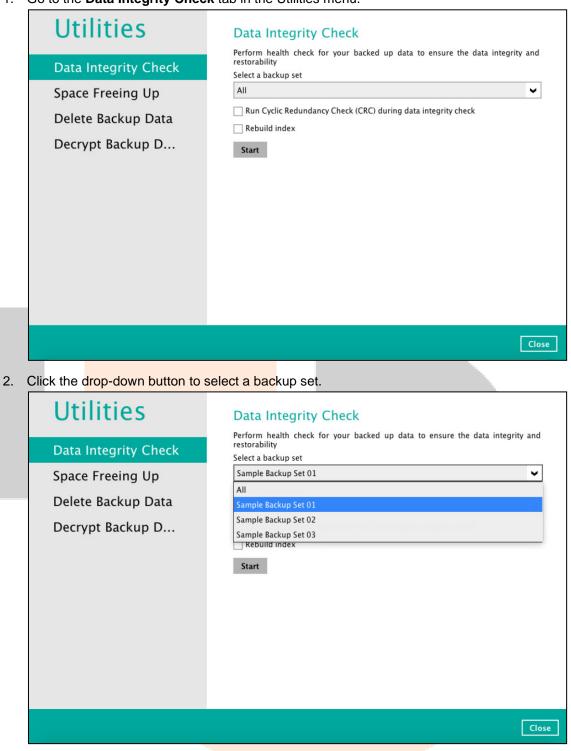
Clicking the **View log** button will display the details of the Data Integrity Check job error(s).

Utilities	Data Integrity Check		
Data Integrity Check	Perform health check for your backed up data to ensure restorability Select a backup set	the data integrity a	nd
Space Freeing Up	Data Backup		~
	Select a destination		
Delete Backup Data	All		~
Decrypt Backup D	 Run Cyclic Redundancy Check (CRC) during data integrity of Rebuild index X Data Integrity Check is completed with error(s) View log 	check	
			Close
Iltilities	Data Integrity Check		Close
Litilities	Data Integrity Charb	Show All	Close
Type	Data Integrity Check 5 Log	Show All Time	~
Type 5 sart (B247Pro v9.0.0.46) 5 sart data integrity check on backup set "Da 5 shipped Backup Set – "Data Backup". Rease Finished data integrity check with error on t		Show All Time 15/11/2021 16:59:5 15/11/2021 16:59:5 15/11/2021 16:59:5 15/11/2021 16:59:5	▼ 11 11 17 7
Type 5 sart (B247Pro v9.0.0.46) 5 sart data integrity check on backup set "Da 5 shipped Backup Set – "Data Backup". Rease Finished data integrity check with error on t	Log ata Backup(1636606806827)" all destination, crc disabled, rebuild index disa on = "Scheduled backup set "Data Backup" is still running." backup set "Data Backup(1636606806827)" all destination, crc disabled, rebu	Show All Time 15/11/2021 16-59: 15/11/2021 16-59	▼ 11 17 77 77 77 77
Type Start [B247Pro v9.0.0.46] Start data integrity check on backup set "Du Skipped Backup Set = "Data Backup". Rease Finished data integrity check with error on b Completed data integrity check on backup	Log ata Backup(1636606806827)" all destination, crc disabled, rebuild index disa on = "Scheduled backup set "Data Backup" is still running." backup set "Data Backup(1636606806827)" all destination, crc disabled, rebu	Show All Time 15/11/2021 16-59: 15/11/2021 16-59	Y 11 11 17 77 77



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

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





3. 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
Data Integrity Check	restorability Select a backup set
Space Freeing Up Delete Backup Data Decrypt Backup D	Sample Backup Set 03
	Close

Unchecked Run Cyclic Redundancy Check (CRC) and Rebuild index options is the default setting of Data Integrity Check.

Utilities	Data Integrity Check	
Data Integrity Check	Perform health check for your backed up data to ensure the data int restorability	egrity and
Data integrity Check	Select a backup set	
Space Freeing Up	Sample Backup Set 03	~
Delete Backup Data	Select a destination B247CBS	~
Decrypt Backup D	Run Cyclic Redundancy Check (CRC) during data integrity check Rebuild index Start	
		Close



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 and will be removed from the backup destination(s). If these files still exist on the client machine on the next backup job, the Backup247 Advanced Client (B247PRO) will upload the latest copy of the files.

However, if the corrupted files are in the 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

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.

Rebuild index

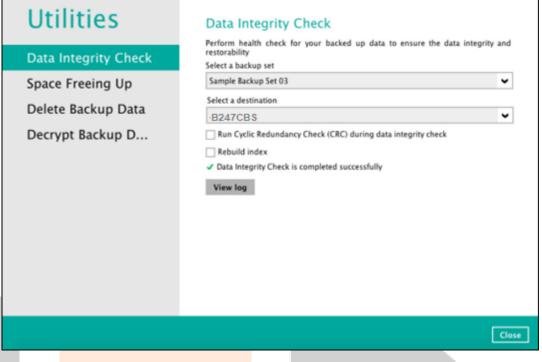
When this option is enabled, the Data Integrity Check will start rebuilding corrupted index and/or broken data blocks if there are any.

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

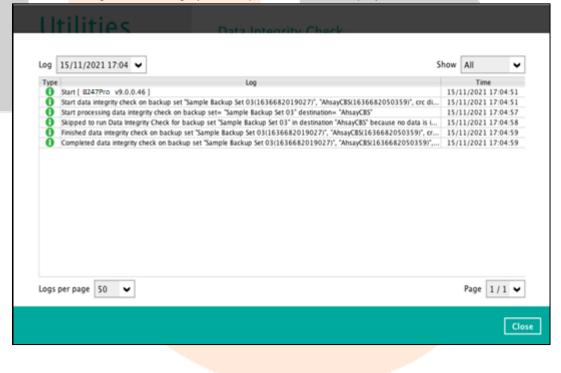
Utilities	Data Integrity Check	
Data Integrity Check	Perform health check for your backed up data to ensure the data integrity restorability Select a backup set	/ and
Space Freeing Up	Sample Backup Set 03	\sim
Delete Backup Data	Select a destination	_
Delete Backup Data	B247CBS	~
Decrypt Backup D	Run Cyclic Redundancy Check (CRC) during data integrity check Rebuild index Start processing data integrity check on backup set= "Sample Backup Set 03" Stop	de
		Close



6. Once the DIC is completed, click the **View log** button to check the detailed process of the Data Integrity Check.



7. The detailed log of Data Integrity Check process will be displayed.





The following options can be used for further viewing of the detailed DIC log:

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

Туре	Log	Show All V Time
Start processing of Skipped to run D Finished data into	v9.0.0.46] y check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163668 lata integrity check on backup set="Sample Backup Set 03" destination="AhsayCBS" ta integrity Check for backup set "Sample Backup Set 03" in destination "AhsayCBS" grity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 ntegrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set "Sample Backup Set 03(1636682019027)", "AhsayCBS(163 thegrity check on backup Set 03(163668201	15/11/2021 17:04:57 tecause no data is i 15/11/2021 17:04:58 6682050359)°, cr 15/11/2021 17:04:59
Logs per page 50	•	Page 1/1 🗸
_		a
Option	Screenshot	Function
Log Filter	Log 27/04/2021 09:41 ✓ Type 26/04/2021 15:53 26/04/2021 15:55 0 27/04/2021 09:41 Download valid index lifes in	This option is used display the availab logs of the Data Integrity Check job
Show filter	Show All All 27/0 27/0 Information 27/0 Warning	This option is used sort the Data Integ Check log by its status (i.e., All, Information, Warn and Error).



Logs per page	 Finished da 50 Completed 100 200 500 1000 Logs per page 50< ✓ 	This option allows user to choose the displayed number of logs per page.
Page	Page 1/3 ♥	This option allows user to navigate the logs to the next
	1/3	page(s).
	2/3	
	3/3	

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 or indexrelated 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 or index-related issues detected.

Log	15/11/2021 17:04 🗸	Show	All	~
Type	Log		Time	
0	Start [B247Pro v9.0.0.46]	15/1	11/2021	17:04:51
0	Start data integrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(1636682050359)", crc dl	15/1	11/2021	17:04:51
0	Start processing data integrity check on backup set= "Sample Backup Set 03" destination= "AhsayCBS"	15/1	11/2021	17:04:57
0	Skipped to run Data Integrity Check for backup set "Sample Backup Set 03" in destination "AhsayCBS" because no data is i	15/3	1/2021	17:04:58
0	Finished data integrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(1636682050359)", cr	15/1	11/2021	17:04:59
0	Completed data integrity check on backup set "Sample Backup Set 03(1636682019027)", "AhsayCBS(1636682050359)",	15/1	11/2021	17:04:59
0.05	per page 50 V		Page	1/1 🗸



If any index-related error(s) or data corrupted item(s) is found, the **(TEST MODE)** confirmation screen will be displayed.

U	tilities		grity Check deck for your f		ensure the data is	itegrity and
	corrupted items. chi you sure you want to Backup set: Sample Backup	Set 01			be deleted. Are	
	Destination	Index	items	data blocks	Statistics	
	B247CBS	368 (130,4MB)	181 (111.3MB)	23 (490.1MB)	Incorrect	
					Yes No	View log

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)

Test Mode Confirmation

The (TEST MODE) confirmation screen will ONLY appear if either of the **criteria** below matches the backup data during the Data Integrity Check process:

- 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 the total backup files

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



There are three (3) options on the (TEST MODE) confirmation screen:

Option	Screenshot	Function
Yes	Yes	Corrupted data (e.g. index files, checksum files and/or broken data blocks) will be deleted and storage statistics will be updated.
No	Νο	No action(s) will be taken and a message will prompt.
View log	View log	The detailed log of the Data Integrity Check process will be displayed.

Clicking **No** will display the following screen:

Utilities	Data Integrity Check
Data Integrity Check	Perform health check for your backed up data to ensure the data integrity and restorability Select a backup set
Space Freeing Up	All
Delete Backup Data	Run Cyclic Redundancy Check (CRC) during data integrity check
updated. You are recomme	ck was completed in TEST MODE only. NO changes have been ended to continue in order to delete data corrupted items, t items, index broken data blocks and rebuild the index. ant to exit? Exit Back
	Ciose

If the **Exit** button is clicked, the Data Integrity Check result will be discarded.

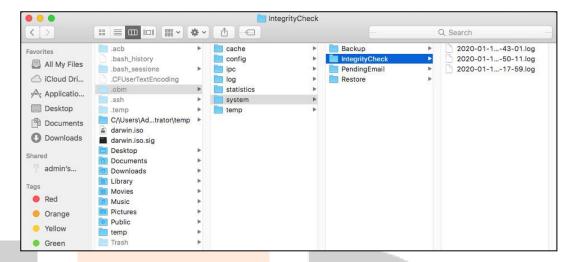
If the Back button is clicked, it will go back to the (TEST MODE) confirmation screen.

NOTES

- 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), therefore 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 do not have related index entries, then these physical data blocks will be **automatically** removed from the backup destination(s) without the (TEST MODE) prompt.



Aside from viewing the Data Integrity Check logs directly on Backup247 Advanced Client (B247PRO) client, they can also be viewed on the file system of the Backup247 Advanced Client (B247PRO) client machine. For Backup247 Advanced Client (B247PRO) on macOS, the DIC logs are located in the following directory:



%UserProfile%\.\obm\system\IntegrityCheck





9.9.2 Space Freeing Up

This feature is used to remove obsolete file(s) from your 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 Space Freeing Up, follow the instructions below:

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

Utilities	Free Up Storage Space
Data Integrity Check	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.
Space Freeing Up	Select a backup set
Delete Backup Data Decrypt Backup D	All Daily Backup B247CB \$ Backup Files Backup OBM Backup
	Close

If you select a specific backup set, then you will also have to select a specific destination or all destinations.

Utilities	Free Up Storage Space
Data Integrity Check	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.
Space Freeing Up	Select a backup set
Delete Backup Data	Select a destination
Decrypt Backup D	All B247CBS GoogleDrive-1 Local-1 (/Users/admin/Documents/Office 365)
	Close



If you select All backup sets, the	a select All backup sets, then there is no need to select a destination.				
Iltilities	Encolling Strength Strength				

Utilities	Free Up Storage Space	
Data Integrity Check	To remove obsolete files from your backup dee policy setting to free up your storage space, se then press Start.	stination according to your retention lect backup set(s), destination(s) and
Space Freeing Up	Select a backup set	V
Delete Backup Data Decrypt Backup D	Start	
		Close

2. Click the **Start** button to perform space free up.

_		
	Utilities	Free Up Storage Space
	Data Integrity Check	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
	Space Freeing Up	All
	Delete Backup Data Decrypt Backup D	₹ Start processing space freeing up on backup set= "Sample Backup Set 01 (1619 Stop
		Close

3. The status will be shown once completed. Click the **View log** button to see the detailed report of the space freeing up job.



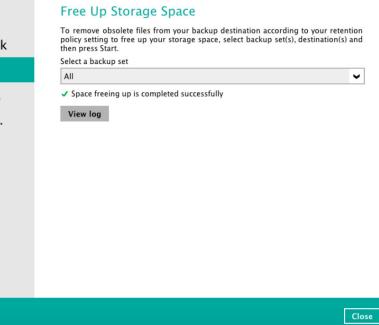
Utilities

Data Integrity Check

Space Freeing Up

Delete Backup Data

Decrypt Backup D...



Log	16/11/2021 10:32 👻	Show		_
Type			Time	
0	Start [B247Pro v9.0.0.46]		11/2021 1	
0	Start space freeing up on all backup sets		11/2021 1	
0	Start processing space freeing up on backup set= "Data Backup (1636606806827)" destination= "AhsayCB		11/2021 1	
0	Download valid index files from backup job "Current" to "/Users/admin/.obm/temp/1636606806827/085		11/2021 1	
0	Space freeing up on backup set= "Data Backup (1636606806827)" destination= "AhsayCBS (1636606824		11/2021 1	
0	Start processing space freeing up on backup set= "Sample Backup Set 03 (1636682019027)" destination=		11/2021 1	
0	Space freeing up on backup set= "Sample Backup Set 03 (1636682019027)" destination= "AhsayCBS (163		11/2021 1	
0	Start processing space freeing up on backup set= "BackupSet-1 (1636942721817)" destination= "AhsayCE		11/2021 1	
0	Download valid index files from backup job "Current" to "/Users/admin/.obm/temp/1636942721817/085		11/2021 1	
0	Space freeing up on backup set= "BackupSet-1 (1636942721817)" destination= "AhsayCBS (1636942824		11/2021 1	
0	Start processing space freeing up on backup set= "BackupSet-3 (1636957528711)" destination= "AhsayCE		11/2021 1	
0	Download valid index files from backup job "Current" to "/Users/admin/.obm/temp/1636957528711/085		11/2021 1	
0	Space freeing up on backup set= "BackupSet-3 (1636957528711)" destination= "AhsayCBS (1636957774		11/2021 1	
0	Start processing space freeing up on backup set= "BackupSet-4 (1636957911131)" destination= "AhsayCE		11/2021 1	
0	Download valid index files from backup job "Current" to "/Users/admin/.obm/temp/1636957911131/085		11/2021 1	
0	Space freeing up on backup set= "BackupSet-4 (1636957911131)" destination= "AhsayCBS (1636957930		11/2021 1	
0	Finished space freeing up on all backup sets	16/	11/2021 1	0:32:5
				_
Logs	per page 50 🗸		Page (1/1
				_

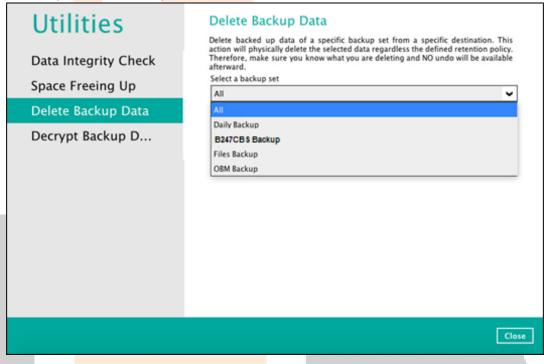


9.9.3 Delete Backup Data

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 from the drop-down list.



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.

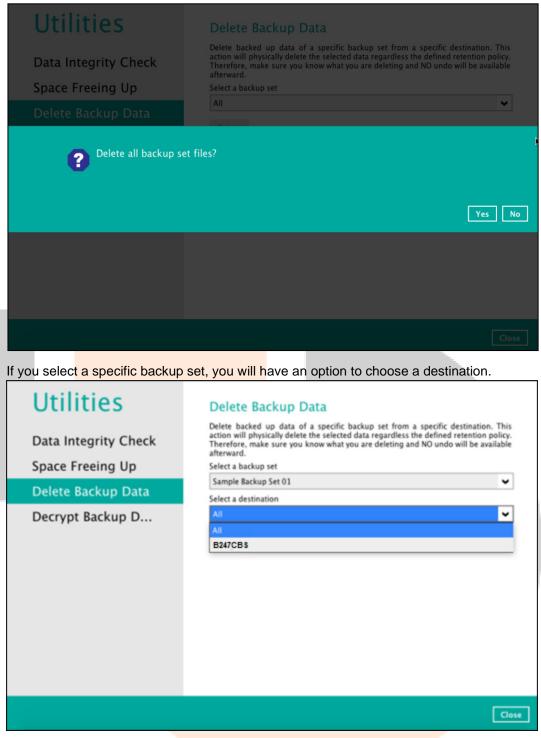


If you select a specific backup set, then you will also have to select a specific destination or all destinations.

Utilities Data Integrity Check Space Freeing Up Delete Backup Data Decrypt Backup D	Delete Backup Data
If you select All backup sets, t	hen there is no need to select a destination.
Utilities Data Integrity Check	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.
Space Freeing Up Delete Backup Data Decrypt Backup D	Select a backup set All Delete
	Close



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.



If you select a specific destination, there are two (2) available options for the type of files you wish to delete.

- Delete all backed up data
- Choose from ALL files



Utilities

Data Integrity Check

Space Freeing Up

Delete Backup Data

Decrypt Backup D...

D.	.1	-+	~	D		-1			-			-
	er	eι	e	D	d		S.	u,	D	υ	d١	.d

ty Check	Delete backed up data of a specific backup set from a action will physically delete the selected data regardless t Therefore, make sure you know what you are deleting an afterward.	he defined retention policy.
ng Up	Select a backup set	
up Data	Sample Backup Set 01	~
up Data	Select a destination	
kup D	.B247CB\$	~
	Select what to delete	
	Delete all backed up data	
	Delete all backed up data	
	Choose from ALL files	
		Close

Delete all backed up data

If you choose this option, the following message will be displayed. By clicking **Yes**, all backed up data from the selected backup set(s) and destination(s) will be deleted.

Data Integrity Check will p There Space Freeing Up	backed up data of a specific backup set from a specific destination. This action hysically delete the selected data regardless the defined retention policy.
	fore, make sure you know what you are deleting and NO undo will be available and. a backup set sie Backup Set 01
Delete all files (Sample Backup	Set 01 - B247CBS)?
	Yes No
	Close Help

Choose from ALL files

If you choose this option, you can select to delete any file(s) in the backup set.

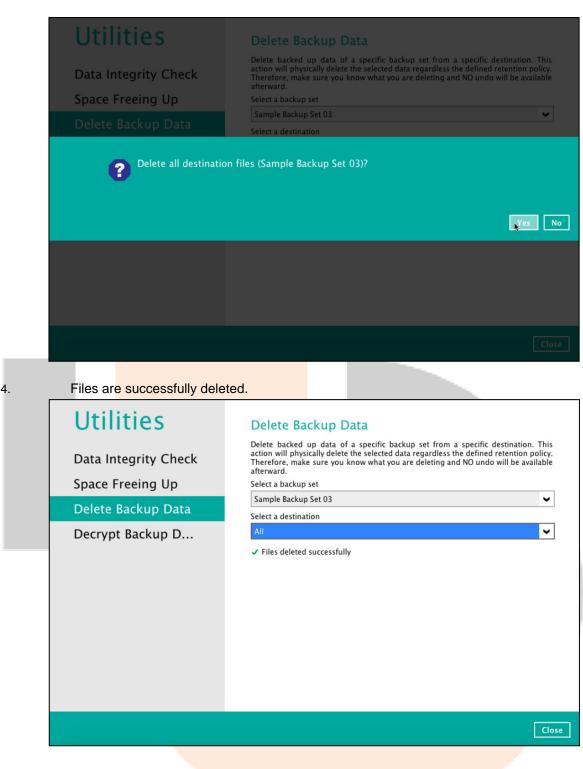


Utilities	Delete Backup Data	Ŷ
Data Integrity Chock	Delete backed up data of a specific backup set from a specific destination. This action will physically delete the selected data regardless the defined retention policy. Therefore, make sure you know what you are deleting and NO undo will be	- 1
Data Integrity Check	available afterward.	- 1
Space Freeing Up	Select a backup set	- 1
Delete Backup Data	Sample Backup Set 01	- 1
	Select a destination B247CBS	- 1
Decrypt Backup Data	Select what to delete	- 1
	Choose from ALL files	- 1
		- 1
	Folders Name Size Date modified ←	
Click the Delete button, th	to start the deletion of files.	Неір
Utilities		
ounces	Delete Backup Data	
Data Integrity Check	Delete backed up data of a specific backup set from a specific destination. action will physically delete the selected data regardless the defined retention p Therefore, make sure you know what you are deleting and NO undo will be ava afterward.	policy.
Space Freeing Up	Select a backup set	
Delete Backup Data	Sample Backup Set 03	•
	Select a destination	~
Decrypt Backup D	Delete	
		Close

3.

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9.9.4 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:

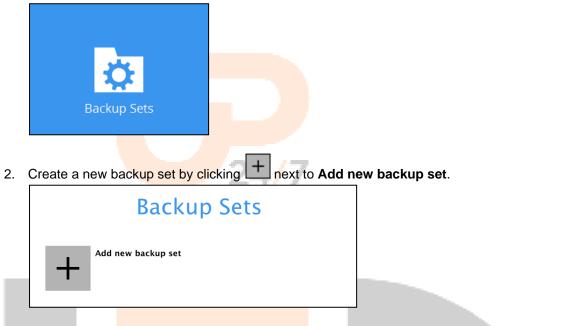
1. Click the **Browse** button to locate the path of the backup set ID / blocks folder.

Utilities	Decrypt Backup Data
Data Integrity Check	Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt.</backup>
	Browse
Space Freeing Up	Temporary directory for storing restore files
Delete Backup Data	/Users/admin/.obm/temp Browse
Decrypt Backup D	Decrypt
	nich contains the backup files you want to decrypt. Click
Enter the path of the folder wh Decrypt to start decrypting ba Utilities	nich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data
Decrypt to start decrypting ba Utilities	nich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data
Decrypt to start decrypting ba Utilities Data Integrity Check	hich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up	nich contains ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up	Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains the backup files you want to decrypt. Click ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>
Decrypt to start decrypting ba Utilities Data Integrity Check Space Freeing Up Delete Backup Data	hich contains ackup data. Decrypt Backup Data Please enter the path to the [<backup id="" set="">/blocks] folder which contains the backup files that you want to decrypt. /Users/admin/Downloads Temporary directory for storing restore files /Users/admin/.obm/temp Browse</backup>



10 Create a Backup Set

1. Click the **Backup Sets** icon on the main interface of Backup247 Advanced Client (B247PRO).



3. When the Create Backup Set window appears, name your new backup set, and select the Backup set type. Then, click Next to proceed.

Create Backup Set	
Name BackupSet-1 Backup set type File Backup	
	Next Cancel



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.

Backup Source	
Select the files and folders that you want to backup Image: Desktop Im	
Filter Apply filters to the backup source Off	
	Previous Next Cancel

5. In the Advanced Backup Source window, select folder(s) to back up all files in the folder(s).

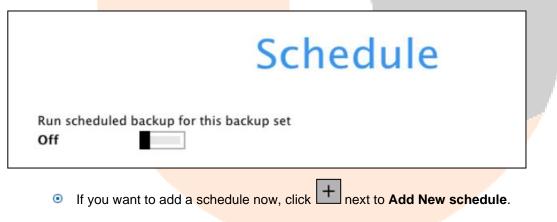
Folders Folders		
▶ >.subversion ▶ >.subversion ▶ Desktop ▼ Documents ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ □ □ □ □ ▶ □ ▶ □ ▶ □ ▶ □ ▶ □ □	Î	
Fusion_Test Fusion_Test Fusion_Test Fusion_Test Fusion_Test Fusion_Test Fusion_Test Fusion_Test	v	



6. 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.

Folders			Name	Size	Date modified
	▶ 🗌 🚞 .ssh	DS_Store		6 KB	24/11/2016 11:34
	Isubversion	🗹 📓 doc 1.docx		3 KB	08/11/2016 14:12
	▶ 🗆 🚞 .vim	🗹 📓 doc 2.docx		302 KB	23/11/2016 12:51
	🕨 🗹 🛅 Desktop	🗆 📓 doc 3.docx		11 KB	23/11/2016 12:46
	Documents				
	🗹 📄 Docum(
	🕨 🗹 🚞 Images;				
	MYW				
	PhoneC				
	RDC Cc				
	🕨 🗹 📩 Referer,				
	🕨 🗹 💼 Templa				
	Virtual				
	▶ 🗌 📩 c57a3λ				
	🕨 🗆 💼 other 👘				
	Image: Image is the setting is a setting in the setting is a setting in the setting is a sett				
	🗌 💽 Downloads				
	🗌 🚞 Fusion_Tes				
	🕨 🗆 🔚 Library 💠				
	Movies				
	🕨 🗆 🛅 Library 🖉				
	Movies	·			

- 7. In the Backup Source window, click **Next** to proceed.
- In the Schedule window, 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.





Schedule	
Run scheduled backup for this backup set On	
Existing schedules + Add new schedule	

Wh<mark>en th</mark>e New Backup Schedule wi</mark>ndow appears, specify your backup schedule. Then, click **OK** to save your changes and close the New Backup Schedule window.

Type Daily Start backup at 09 27 Stop until full backup completed Run Retention Policy after backup	Name Daily-1		
	Start backup at V 09 V : 27 V Stop		

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.

Schedule
Run scheduled backup for this backup set On
Existing schedules Backup Schedule Daily (Everyday at 20:00) Daily-1 Daily (Everyday at 09:37)
Add



10. The **Destination** window will appear.

Destination
Backup mode Sequential ▼ Existing storage destinations ↓ Add new storage destination / destination pool ◆ ◆
Previous Next Cancel
Select the app <mark>ropriate option from the Backup mode</mark> 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.

Name	
B247CB\$	
Destination storage	
G 8247CBS	~



12. In the Destination window, your selected storage destination will be shown. Click Next to proceed.

	Destination
Backup mode Sequential Existing storage destinations	
G B247CBS Host: 10.3.121.17:80	
$(f_{i}) \rightarrow (f_{i})$	

13. Keep the **OpenDirect** feature disabled as this feature is not supported on macOS platform. Click **Next** to proceed.

OpenDirect	
OpenDirect Off Support of opening backup data directly without restoration. When OpenDirect is enabled, to optimize restore performance both compression and encryption will be disabled for this backup set.	
Once OpenDirect is enabled and the setting is saved, it cannot be disabled without re-creating the backup set.	

14. 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	
User password	
Custom	



You can choose from one of the following three Encryption Type options:

- Default an encryption key with 44 alphanumeric characters will be randomly generated by the system
- User password the encryption key will be the same as the login password of your Backup247 Advanced Client (B247PRO) at the time when this backup set is created. Please be reminded that if you change the Backup247 Advanced Client (B247PRO) login password later, the encryption keys of the backup sets previously created with this encryption type will remain unchanged.
- 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		

NOTE: For best practice on managing your encryption key, refer to the following KB article. FAQ: Best practices for managing encryption key on Backup247 Advanced Client (B247PRO) or Backup247 Standard Backup Suite (B247LITE)

Click Next when you are done with the settings.



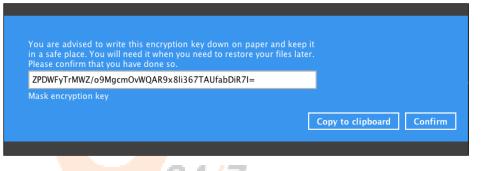
15. If you have enabled the Encryption Key feature in the previous step, the following pop-up window will be displayed regardless of the selected encryption type.

ncrypt Backup D n [ncryption Type Default ¥	ata				
••	u are advised to write t a safe place. You will ne ase confirm that you ha mask encryption key	this encryption key dow eed it when you need to ave done so.	wn on paper and keep o restore your files late	it r. Copy to clipboard	Confirm



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.
- 16. 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.

Congratulations!	
"BackupSet-1" is successfully created.	
Backup now Close	



17. It is highly recommended to change the <u>Temporary Directory</u> and select another location with sufficient free disk space other than /Users/admin/.obm/temp.

Go to **Others** > **Temporary Directory**. Click **Change** to browse for another location.

BackupSet-1	Temporary Directory	1		
	Temporary directory for storing backup files			
General	/Users/admin/.obm/temp	Change		
Source	21.74G8 free out of total 39.2G8 space in /Users/admin/.obm/temp r Remove temporary files after backup			
Backup Schedule	Follow Link			
Destination	Follow link of the backup files			
Deduplication				
Retention Policy	OpenDirect Support of opening backup data directly without restoration			
Command Line Tool	Off			
Bandwidth Control	Compressions			
Others	Select compression type			
Hide advanced settings	Fast with optimization for local			
	Encryption			
Delete this backup set		Save Cancel		

 Optional: Select your preferred Compression type. For newly created backup set(s), "Fast with optimization for local" is selected by default.

Go to **Others** > **Compressions**. Click the drop-down button then select from the following list:

- No Compression
- Normal
- Fast (Compressed size larger than normal)
- Fast with optimization for local

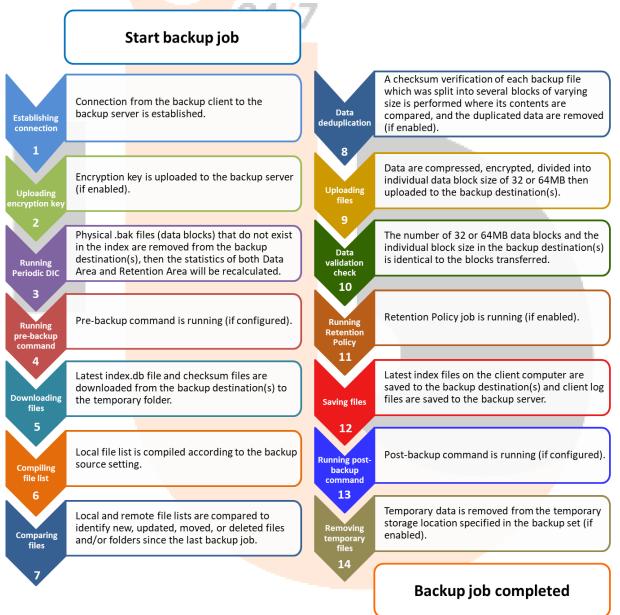
BackupSet-1	Follow Link Follow link of the backup files	^		
General	On and a second se			
Source	OpenDirect	ł		
Backup Schedule	Support of opening backup data directly without restoration Off			
Destination	Compressions			
Deduplication	Select compression type			
Retention Policy	Fast with optimization for local No Compression Normal			
Command Line Tool				
Bandwidth Control	Fast (Compressed size larger than normal) Fast with optimization for local			
Others	Algorithm AES Method CBC			
Hide advanced settings	Key length 256 bits			
Delete this backup set	Save			



11 Overview on Backup Process

The following steps are performed during a backup job. For an overview of the detailed process for Steps **3**, **5**, **10**, and **12**, please refer to the following chapters.

- Periodic Data Integrity Check (PDIC) Process (Step 3)
- Backup Set Index Handling Process
 - Start Backup Job (Step 5)
 - Completed Backup Job (Step 12)
- Data Validation Check Process (Step 10)





11.1 Periodic Data Integrity Check Process

For Backup247 Advanced Client (B247PRO) v8.3.6.0 (or above), 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 at the same time on the B247CBS server, the schedule of a PDIC job for each backup set is automatically determined by the result of the following formula:

PDIC sc <mark>hedu</mark> le = %BackupSetID%					
or					
%Backu	pSet	ID% mo	d 5		

The calculated **result** will map to the corresponding day of the week (i.e., from Monday to Friday).

0	Monday	12/
1	Tuesday	274/
2	Wednesday	
3	Thu <mark>rsday</mark>	
4	Frid <mark>ay</mark>	

NOTE: The PDIC schedule cannot be changed.

Example:

Backup set ID: 1594627447932

Calculation: 1594627447932 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.

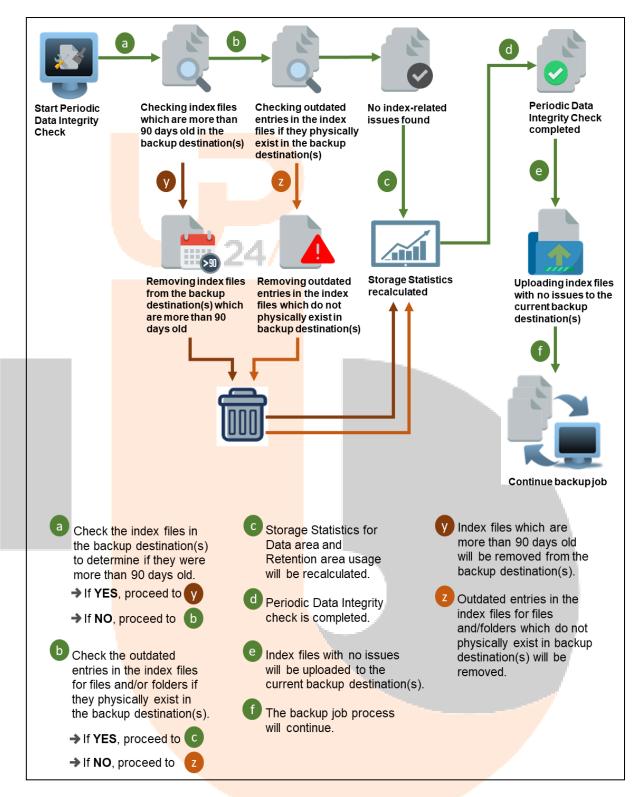


Although according to the PDIC formula for determining the schedule is **%BackupSetID% mod 5**, this schedule only applies if the previous PDIC job was actually run more than 7 days prior.

Under certain conditions, the PDIC may not run strictly according to this formula. For example:

- The PDIC job will run on the first backup job after upgrade to the latest client version from Backup247 Advanced Client (B247PRO) v6, v7, or pre-8.3.6.0 version.
- 2. 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.
- 3. 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.
- 4. 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.
- The PDIC job will not run on a backup set that contains any data which still in v6 format. It will only run if all v6 data format on a backup set has undergone data migration to v9 block format.



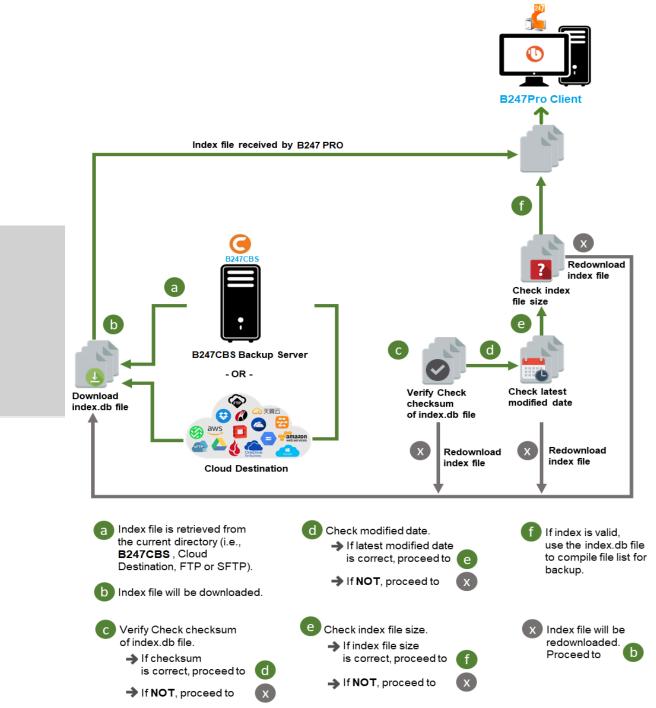




11.2 Backup Set Index Handling Process

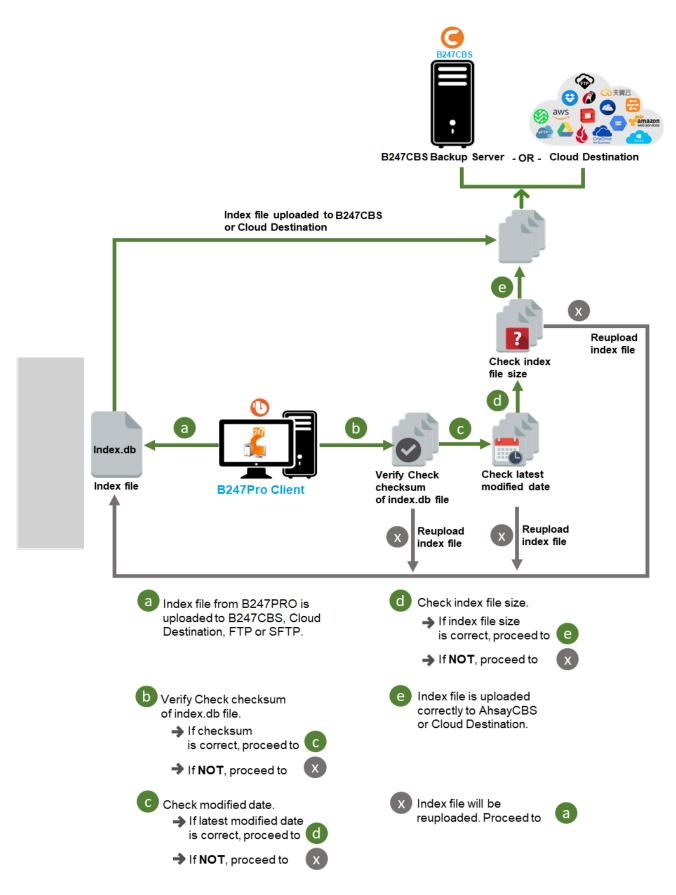
To minimize the possibility of index related issues affecting backups, each time index files are downloaded from and uploaded to backup destination(s); the file size, last modified date, and checksum is verified to ensure index file integrity.

11.2.1 Start Backup Job



11.2.2 Completed Backup Job

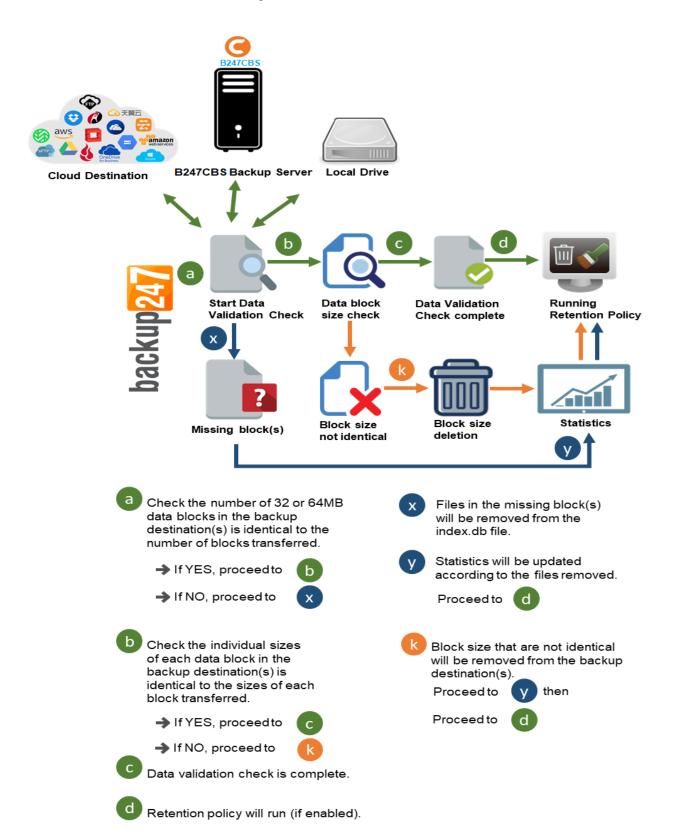






11.3 Data Validation Check Process

As an additional measure to ensure that all files transferred to the backup destination(s) are received and saved correctly, both the number of 32 or 64MB data block files and the size of each block file are checked again after the files are transferred.



247



12 Run Backup Jobs

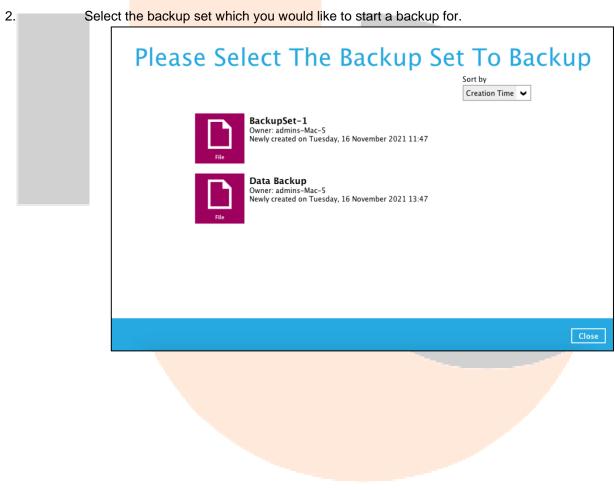
12.1 Login to Backup247 Advanced Client (B247PRO)

Login to the Backup247 Advanced Client (B247PRO) application according to the instructions in Chapter 7 Login to Backup247 Advanced Client (B247PRO).

12.2 Start a Manual Backup

1. Click the **Backup** icon on the main interface of Backup247 Advanced Client (B247PRO).

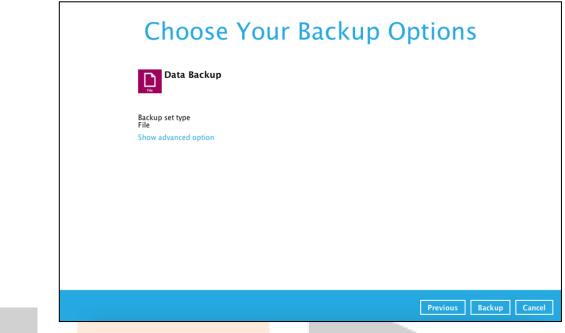








3. Click the **Show advanced option** in case you want to modify the Destinations, Migrate Data and Retention Policy options.



4. When the advanced options are shown, it is recommended to enable the **Run Retention Policy after backup**. This will help you save hard disk quota in the long run.

Choose Your Backup Options
Data Backup
Backup set type File
Destinations
🗹 🧿 Hot Cloud Storage Basic-Lite Plans
🗹 📓 Local-1 (C:\Backup Destination)
Migrate Data
Migrate existing data to latest version Retention Policy
Run Retention Policy after backup
Hide advanced option
Previous Backup Cancel Help
NOTE
NOTE
When the Migrate Data option is enabled, the existing data will be migrated to the latest

When the **Migrate Data** option is enabled, the existing data will be migrated to the latest version during a backup job. This option is disabled by default. Backup job(s) for backup sets with Migrate Data enabled may take longer to finish. For more information about this feature, refer to B247CBS v9 New Features Supplemental document.



Once done with the settings,	click the Backu	p button to start th	e backup	job.

Choose Your Backup Options
Data Backup
Backup set type File Destinations ♥ ● Hot Cloud Storage Basic-Lite Plans ♥ ■ Local-1 (C:\Backup Destination) Migrate Data ■ Migrate existing data to latest version Retention Policy ♥ Run Retention Policy after backup Hide advanced option
Previous Backup Cancel Help

6. The following screen will be displayed to indicate that the backup job is successfully completed. You may click the log button to check for the backup log.

Backup	
Data-Backupset 1	
Hot Cloud Storage Basic-Lite Plans Image: Storage Basic-Lite Plans<	
Close	



7. Once you are done with checking the backup log, click the **Close** button to return to the previous screen.

Image: Stars (Ed2/PR0 / 0.1.0.) Tome: Deals (Set 1000) Stars (Ed2/PR0 / 0.1.0.) 2003/2022 17:353 Otstar Backup,Deduplatator: enabled, Deduplatatori scope: All files within the same backup set, Mgrate Delta: enabled, 2003/2022 17:353 2003/2022 17:353 Otstar Periodic Data Integrity Check on backup set - "Data-Backuppet 11/ destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 Otstar processing data Integrity Check on backup set - "Data-Backuppet 11/ destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 Download will index. (Est from backup set - "Data-Backuppet 11/ destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 O Vaccummig Index. Completed 2003/2022 17:364 Download will index. (Est from backup set - "Data Backuppet 11/ destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 O Vaccummig Index. Completed astitict of backup set - "Data Backuppet 11 destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 Data Integrity check on backup set - "Data Backuppet 11 destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 Data Integrity check on backup set - "Data Backuppet 11 destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 Data Integrity check on backup set - "Data Backuppet 11 destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364 Data Integrity check on backup set - "Data Backuppet 11 destination="Hot Cloud Storage Basic-Lite Plant;" 2003/2022 17:364			Show	All
Start Backup [Deduplication: enabled, Deduplication scope: All files within the same backup set, Migrate Delta: enabled] 2003/2022 17:54:0 Using Temporary Directory C:\Users\Backultermp11646398208096\Predefined@-1635843864160 2003/2022 17:54:0 Start Beriodic Data Integrity Check on backup set "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 2003/2022 17:54:0 Distart processing data integrity check on backup set "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans" 2003/2022 17:54:0 Download valid index files from backup job "2022-03-20-09-16-44" to "C:\Users\Backultemp11646398208096\Predefined 2003/2022 17:54:0 Vacuuming index Completed 2003/2022 17:54:0 Disting statistics of backup set= "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Data area compre 2003/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Data area com 2003/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Data area com 2003/2022 17:54:0 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Using Temporary Directory C:\Users\Backu\temp\1646398208096\Predefined@-1635843864160 20/03/2022 17:54:0 Start Periodic Data Integrity Check on backup set "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Start data integrity check on backup set "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Download valid index files from backup iset "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Download valid index files from backup job "2022-03-20-09-16-44" to "C.\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:0 Vacuming index. 20/03/2022 17:54:0 20/03/2022 17:54:0 Vacuming index. Completed 20/03/2022 17:54:0 Recalculate statistics of backup set "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Is completed 20/03/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Is completed 20/03/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Is completed 20/03/2022 17:54:0 Completed data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans(-Lite. 20/03/2022				
Start Periodic Data Integrity Check on backup set " Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Start data integrity check on backup set "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Start data integrity check on backup set "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Download valid index files from backup set "Data-Backupset 1" destination = "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Vacuumig index. 20/03/2022 17:54:0 20/03/2022 17:54:0 Vacuumig index. 20/03/2022 17:54:0 20/03/2022 17:54:0 Vacuumig index. 20/03/2022 17:54:0 20/03/2022 17:54:0 Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:0 Recalculated statistics of backup set= "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:0 Data integrity check on backup set= "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Lite Plans": Data area compre 20/03/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Completed 20/03/2022 17:54:0 Data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans": 20/03/2022 17:54:0 20/03/2022 17:54:0 <				
 Start data integrity check on backup set "Data-Backupset 11(1646398208096)", "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Start processing data integrity check on backup set "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans" 20/03/2022 17:54:0 Download valid index files from backup job "2022-03-20-09-16-44" to "C:\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:0 Vacuuming index Completed Existing statistics of backup set "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area come: 20/03/2022 17:54:0 Kacuuming index Completed Existing statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area come: 20/03/2022 17:54:0 Recalculard statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area come: 20/03/2022 17:54:0 The statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Lotat area come: 20/03/2022 17:54:0 The statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Lotat area come: 20/03/2022 17:54:0 The statistics of backup set= "Data-Backupset 1" destination="Hot Cloud Storage Basic-Lite Plans": Lotat area come: 20/03/2022 17:54:0 Finished data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans": Lot 20/03/2022 17:54:0 Completed data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans": 20/03/2022 17:54:0 Start running pre-commands 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:0 Downloading server file list Completed Downloading server file list Completed Downlo				
Ownload valid index files from backup job "2022-03-20-09-16-44" to "C:\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:C Vacuuming index. 20/03/2022 17:54:C Vacuuming index. 20/03/2022 17:54:C Vacuuming index. 20/03/2022 17:54:C Vacuuming index. 20/03/2022 17:54:C Existing statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:C Recalculated statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area com/2003/2022 17:54:C Data integrity check on backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans" is correct. 20/03/2022 17:54:C Data integrity check on backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans" is completed 20/03/2022 17:54:C Gompleted data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans," 20/03/2022 17:54:C O start running pre-commands 20/03/2022 17:54:C 20/03/2022 17:54:C Download using server file list 20/03/2022 17:54:C 20/03/2022 17:54:C Download using server file list 20/03/2022 17:54:C 20/03/2022 17:54:C Download using server file list 20/03/2022 17:54:C 20/03/2022 17:54:C Download using server file list				
 Vacuuming index Vacuuming index Convolution of the statistics of backup set "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:0 Existing statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:0 The statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area compre 20/03/2022 17:54:0 The statistics of backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": scornect. 20/03/2022 17:54:0 Data integrity check on backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": scornect. 20/03/2022 17:54:0 Finished data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans, 1: 20/03/2022 17:54:0 Start running pre-commands 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:1 Downloading server file list 20/03/2022 17:54:1 Creating Shadow Copy Set 20/03/2022 17:54:1 Shadow Copy Set successfully created 20/03/2022 17:54:1 Shadow Copy Set successfully created 		Start processing data integrity check on backup set= "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans"		
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Completed statistics of backup set* "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": Data area co 20/03/2022 17:54:0 The statistics of backup set* "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": is correct. 20/03/2022 17:54:0 Data integrity check on backup set* "Data-Backupset 1" destination= "Hot Cloud Storage Basic-Lite Plans": is completed 20/03/2022 17:54:0 Finished data integrity check on backup set* "Data-Backupset 11(646398208096)", "Hot Cloud Storage Basic-Lite Plans". 20/03/2022 17:54:0 Oscipted data integrity check on backup set "Data-Backupset 11(646398208096)", "Hot Cloud Storage Basic-Lite Plans[-16 20/03/2022 17:54:0 Start running pre-commands 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:0 Download valid index files from backup job "2022-03-20-09-16-44" to "C:\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:0 Download valid index files rom backup job "2022-03-20-09-16-44" to "C:\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:0 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:1 20/03/2022 17:54:1 Downloading server file list 20/03/2022 17:54:1 20/03/2022 17:54:1 Downloading server file list Completed 20/03/2022 17:54:1				
Data integrity check on backup set "Data-Backupset 1' destination" "Hot Cloud Storage Basic-Lite Plans" is completed 20/03/2022 17:54:0 Finished data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans(20/03/2022 17:54:0 Completed data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans(20/03/2022 17:54:0 Finished drunning pre-commands 20/03/2022 17:54:0 Downloading server file list Congleted Downloading server file list Congleted Start creating Shadow Copy Set 20/03/2022 17:54:1 Creating Shadow Copy for all volumes: CN, BA; Ri; D: \l?\Volume{af8789d4-0ccb-4a18-b3ef-ae4061165b96}, \l?Volume{ 20/03/2022 17:54:1 Shadow Copy Set successfully created 20/03/2022 17:54:1 20/03/2022 17:54:1				
Image: Second				
Completed data integrity check on backup set "Data-Backupset 1(1646398208096)", "Hot Cloud Storage Basic-Lite Plans(20/03/2022 17:54:0 Start running pre-commands 20/03/2022 17:54:0 Finished running pre-commands 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:0 Download valid index files from backup job "2022-03-20-09-16-44" to "C:\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:0 Downloading server file list 20/03/2022 17:54:1 20/03/2022 17:54:1 Creating Shadow Copy Set 20/03/2022 17:54:1 20/03/2022 17:54:1 Shadow Copy Set successfully created 20/03/2022 17:54:1 20/03/2022 17:54:1				
6 Start running pre-commands 20/03/2022 17:54:0 6 Finished running pre-commands 20/03/2022 17:54:0 7 Downloading server file list 20/03/2022 17:54:0 8 Downloading server file list 20/03/2022 17:54:0 9 Downloading server file list 20/03/2022 17:54:0 9 Downloading server file list 20/03/2022 17:54:0 9 Downloading server file list Corol/2022 17:54:1 9 Start creating Shadow Copy Set 20/03/2022 17:54:1 9 Creating Shadow Copy for all volumes: C B R D: \\?\Volume{af8789d4-0ccb-4a18-b3ef-ae4061165b96} \\? 20/03/2022 17:54:1 9 Shadow Copy Set successfully created 20/03/2022 17:54:1 20/03/2022 17:54:1				
Image: State				
Download valid index files from backup job "2022-03-20-09-16-44" to "C:\Users\Backu\temp\1646398208096\Predefined 20/03/2022 17:54:0 Downloading server file list Completed 20/03/2022 17:54:0 Start creating Shadow Copy Set 20/03/2022 17:54:0 Creating Shadow Copy Set 20/03/2022 17:54:1 Shadow Copy for all volumes: C:\ B: R: D: \!?\Volume{af8789d4-0ccb-4a18-b3ef-ae4061165b96} \!?Volume{ 20/03/2022 17:54:1 Shadow Copy Set successfully created 20/03/2022 17:54:1 20/03/2022 17:54:1	0		20/03	3/2022 17:54:0
Downloading server file list Completed 20/03/2022 17:54:0 District creating Shadow Copy Set 20/03/2022 17:54:1 Creating Shadow Copy for all volumes: CA, BA, RA, DA, MARNE (RER 18904-0ccb-4a18-b3ef-ae4061165b96), MARNE (RER 19904/0ccb-4a18-b3ef-ae4061165b96), MARNE (
				
Creating Shadow Copy for all volumes: C: B: R: D: \\?\Volume{af8789d4-0ccb-4a18-b3ef-ae4061165b96} \\? 20/03/2022 17:54:1 Shadow Copy Set successfully created 20/03/2022 17:54:1 20/03/2022 17:54:1				
Shadow Copy Set successfully created 20/03/2022 17:54:1				



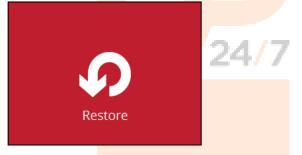
13 Restore Data

13.1 Login to Backup247 Advanced Client (B247PRO)

Login to the Backup247 Advanced Client (B247PRO) application according to the instructions in Chapter 7 Login to Backup247 Advanced Client (B247PRO).

13.2 Restore Data

1. Click the **Restore** icon on the main interface of Backup247 Advanced Client (B247PRO).



2. All the available backup sets for restore will be listed. Select the backup set that you would like to restore data from.

Please Select The Backup Set To Restore	
BackupSet-1 Owner: admins-Mac-5 Newly created on Tuesday, 16 November 2021 11:47	
Data Backup Owner: admins-Mac-5 Last Backup: Tuesday, 16 November 2021 14:51	
Close	



3. Select the destination where you would like to restore your data from.

Select From Where To Restore	
Data Backup	
B247CBS Host: 10.3.121.17:80	
Previ	ous Cancel

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** drop-down menu:

 Choose from files as of job – This option allows you to select a backup version from a specific date and time to restore.

Select what to restore				
Choose from files as of job	~	24/11/2016	~	Latest 🖌
Choose from files as of job				
Choose from ALL files			Name	
Select what to restore				
Choose from files as of job	~	24/11/2016	~	Latest 👻
Show filter		24/11/2016		
Folders		23/11/2016		
▼ G B247CBS ▼ □ ₩ /		22/11/2016		
Select what to restore				
Choose from files as of job	~	24/11/2016	~	Latest 🖌
Show filter				Latest
Folders			Name	10:52
# G B247CBS		린 /		10:49
▼ □ 🔜 / ▶ □ 🔤 Users				09:43



 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.

elect You	ır Files To	Be R	estore
Select what to restore	_		
Choose from ALL files	•		
Show filter			
Folders	Name	Size	Date modified
G B247CBS G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G G	🗆 🕞 File 1.rtf	449 b	25/11/2016 09:47
▼ □ 🕮 /	🖸 💽 File 1.rtf	439 b	25/11/2016 09:45
🔻 🗌 🛄 Users	🗖 💽 File 1.rtf	430 b	25/11/2016 09:42
▼	C 🕅 File 1.rtf	426 b	25/11/2016 09:34

The following is an example showing all the available backup versions of the file **1.rtf**. The latest version is shown in solid black color and all the previous versions are shown in grey color. You can identify the file version from the **Date modified** column.

Name	Size	Date modified
🗆 🔓 File 1.rtf	449 b	25/11/2016 09:47
🗖 📄 File 1.rtf	439 b	25/11/2016 09:45
🗖 🗋 File 1.rtf	430 b	25/11/2016 09:42
🗆 📄 File 1.rtf	426 b	25/11/2016 09:34

When the restore is done, you will see all the selected backup versions in the restore destination. The latest backup version has the file name as the original file, while the previous versions have the time stamps added to their file names for easy identification.

Common + KMT + Here + Others + File Snap	pshot
Name	Date modified
File snapshot testing	11/7/2016 6:54 PM
File snapshot testing_2016-11-07-18-39-11	11/7/2016 6:39 PM
File snapshot testing_2016-11-07-18-51-55	11/7/2016 6:51 PM
File snapshot testing_2016-11-07-18-53-26	11/7/2016 6:52 PM

5. Click the **Show files** checkbox to select individual files for restoration. 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 Backup247 Advanced Client (B247PRO) under the same directory path as on the machine storing the backup source.

For example, if the backup source files are stored under the

Users/[User's Name]/Downloads folder, the data will be restored to the

Users/[User's Name]/Downloads as well on the computer running the Backup247 Advanced Client (B247PRO).

Choos	e Where The Files To Be	Restored
•	ore files to Driginal location Alternate location	Browse
Sho	w advanced option	
		Previous Next Cancel

• Alternate location – you can choose to restore the data to a location of your choice on the computer where Backup247 Advanced Client (B247PRO) is running.

Restore files to	Feroritan	=			C Q Search
Alternate Ic Show advances	C iCloud Drive A Applications Desktop	C//Program Filest/AhSitemp	C/ (Users)_tor(temp	Desktop	Documents
	Documents Downloads	0	m	B	52
		Downloads	Library	Movies	Music
		Pictures	Public	Besture Location	
	New Folder	Pictores	Public	(ALISTA LOADED)	Cancel Opr



7. Click Show advanced option to configure other restore settings:

Restore files to Original location Alternate location	
Show advanced option	
 Delete unmatched data Verify checksum of in-fi Hide advanced option 	in restore location ile delta files during restore

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.

Example:

i) Two files are created under the Document folder 01, namely doc 1 & doc 2.

		Document folder 01	
Name			^
📄 📄 o	doc 1.docx	- Files created initially	
📄 📄 o	doc 2.docx	- Thes created mittany	

- ii) A backup is performed for folder **Document folder 01**.
- iii) Two new files are created, namely doc 3 & doc 4.

	Document folder 01	
Name		^
doc 1.docx		
doc 2.docx	Files created BEFORE backup	
doc 3.docx		
doc 4.docx	 Files created AFTER backup 	

iv) A restore is performed for the **Document folder 01**, with **Delete unmatched** data in restore location option enabled. option enabled.



v) Since doc 3 & doc 4 have never been backed up, therefore they will be deleted from **Document folder 01**, leaving only the two files that have been backed up.

Document folder 01
^
- Files remain after restore
- Files remainance rescore
WARNING

Please exercise extra caution when enabling this feature. Consider what data in the restore source has not been backed up and what impact it would cause if those data were deleted. Prior to the data restore and synchronization, a warning message shows as the one shown below. Only clicking **Yes** will the "unmatched data" be deleted. You can click **Apply to all** to confirm deleting all the "unmatched data" at a time.

Verify checksum of in-file delta files during restore

Verify checksum of in-file delta files during restore is disabled by default. When you perform restore for non-RunDirect backup set, 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 if the merged file were correct.

- 8. Click **Next** to proceed when you are done with the settings.
- 9. Select the temporary directory for storing temporary restore files.

By default, the temporary files are stored under the temp directory of the user profile directory. In case the same directory path does not exist in the computer you are running Backup247 Advanced Client (B247PRO), you have to click **Browse** to define a new location for storing the temporary files. Otherwise, you will not be able to perform a restore.

Temporary Directory	
Femporary directory for storing restore files	
	Browse

10. Once done with the settings, click the **Restore** button to start the restore job.



Temporary Directory	/
Temporary directory for storing restore files	
/Users/admin/.obm/temp	Browse
	Previous Restore Cancel

11. The following screen will be displayed to indicate that the restore job is successfully completed. You may click the log button to check for the restore log.

Restore		
Data Backup		
B247CBS (Host: 10.3.121.17:80) C Restore Completed Successfully Estimated time left 0 sec Restored 2.19MB (0 file) Elapsed time 2 sec Transfer rate 2.24Mbit/s	Id.	
		Close

12. Once you are done with checking the restore log, click the **Close** button to return to the previous screen.



		Show	All		~
Type	Log		Tam		
0	Start [B247Pro v9.0.0.46]	16/11	2021	17:46:55	
0	Same file "/Library/ColorSync/Profiles/Black & White.icc" exists already.	16/11	2021	17:46:56	^
0	"/Library/ColorSync/Profiles/Black & White.icc" contains the same file resource. Skip restore file resource.	16/11	2021	17:46:56	1
0	Same file "/Ubrary/ColorSync/Profiles/Blue Tone.ics" exists already.	16/11	2021	17:46:56	
0	"/Library/ColorSync/Profiles/Blue Tone.icc" contains the same file resource. Skip restore file resource.	16/11	2021	17:46:56	
0	Same file "/Library/ColorSync/Profiles/Gray Tone.kct" exists already.	16/11	2021	17:46:56	
0	"/Library/ColorSync/Profiles/Gray Tone.ict" contains the same file resource. Skip restore file resource.	16/11	2021	17:48:56	
0	Same file "/Ubrary/ColorSync/Profiles/Lightness Decrease.icc" exists already.			17:46:56	
0	"/Library/ColorSync/Profiles/Lightness Decrease.icx" contains the same file resource. Skip restore file resource.	16/11	2021	17:46:56	
0	Same file "/Library/ColorSync/Profiles/Lightness Increase.ics" exists already.	16/11	2021	17:46:56	
0	"/Library/ColorSync/Profiles/Lightness Increase.ics" contains the same file resource. Skip restore file resource.	16/11	2021	17:46:56	
0	Same file "/Library/ColorSync/Profiles/Sepia Tone.icc" exists already.	16/11	2021	17:46:56	
0	"/Library/ColorSync/Profiles/Sepia Tone.icc" contains the same file resource. Skip restore file resource.			17:46:56	
0	"/Library/ColorSync/Profiles/WebSafeColors.icc" contains the same file resource. Skip restore file resource.	16/11	2021	17:46:56	
0	Same file "/Ubrary/ColorSync/Profiles/WebSafeColors.ice" exists already.	16/11	2021	17:46:56	
0	"/Library/Bundles/OSXNotification.bundle/Contents/Info.pilst" contains the same file resource. Skip restore file resource.	16/11	2021	17:46:56	
0	Same file "/Ubrary/Bundles/OSXNotification.bundle/Contents/Info.plist" exists already.	16/11	2021	17:46:56	
0	"/Library/Rundles/OSKNotification.bundle/Contents/version.pilst" contains the same file resource. Skip restore file reso			17:46:56	~
0	Same file "/Library/Rundles//DSOIntification.hundle/Contents/version.nlist" exists already.	16/11	2021	17:48:16	
ogs	per page 50 🗸	P	age	1/10	~





13.3 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 patterns 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 Backup247 Advanced Client (B247PRO), refer to Appendix B: Example Scenarios for Restore Filter.

Follow the steps below to use the search feature:

- 1. Login to Backup247 Advanced Client (B247PRO) according to the instructions in Chapter 7 Logging in to Backup247 Advanced Client (B247PRO).
- 2. Click the **Restore** icon on the main interface of Backup247 Advanced Client (B247PRO).
- 3. Select the backup set that you would like to restore.





Sample Backup Set 01 Owner: Fusion11 Last Backup: Wednesday, 28 August 2019 11:21



Sample Backup Set 02 Owner: Fusion11 Newly created on Wednesday, 28 August 2019 10:50



Sample Backup Set 03 Owner: Fusion11 Newly created on Wednesday, 28 August 2019 10:52





4. Select the backup destination that you would like to restore backed-up items to.

Select Th	e Destin	ation F	rom	Which ⁻	To Re
D ⁵	ample Backup Set O	1			
	47CBS it: 10.90.10.12:443				
				D	Previous Cancel
Click Search located	on the lower le	ft side of the so	creen.		
Select Y	our Fil	es To l	Be R	estore	d
Select what to restore					
Choose from ALL files	~				
Show filter Folders		Name	Size	Date modified	
▼ 🥝 B247CBS ▼ 🗆 🚔 /	File 1.rtf		449 b 439 b	25/11/2016 09:47 25/11/2016 09:45	
V Disers			430 b 426 b		
► 0 00 000 ▼ 0 00 000 ► 0 000	Files 01				
					·



6. Click the **Change** button to change the path of the restore items from other location.

Search	
Look in	
	Change
Search subfolders	chunge
Kind Type Pattern	
Files and Directories 👻 contains 👻	Match case
Search	
Name In Folder Size	Date modified
Items per page 50 V	Page - 💙
	ОКС
Change Path	
Change Path	
▼ 🗍 Backup Server	
▼ Backup Server w w w Users	
▼ ■ Backup Server ▼ ■ / ▼ ■ Users ▼ ▲ admin	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ ↓ / ▼ Users ▼ admin ▼ Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	ОК Са
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	OK Ca
▼ Backup Server ▼ Markup Server ▼ Markup Admin ▼ Markup Documents ▼ My Documents	OK Ca



Search			
/Users/admin/Docun	ments/My Document	s/TestFiles	Change
Search subfolders Kind	Туре	Pattern	
Files and Directories	✓ contains ✓		Match case
Name	In Folder	Size	Date modified

7. Tick the **Search** subfolders to include available subfolders upon searching.

Search subfolders

- 8. Select from the following Kind of files you want to search.
 - Files and Directories
 - Files only
 - Directories
- 9. Select from the following Type of filtering you want to search.
 - Contains
 - Exact
 - Starts With
 - Ends With
- 10. Enter a pattern you want and tick the [Match case] box if you want to accurately search for a specific file.

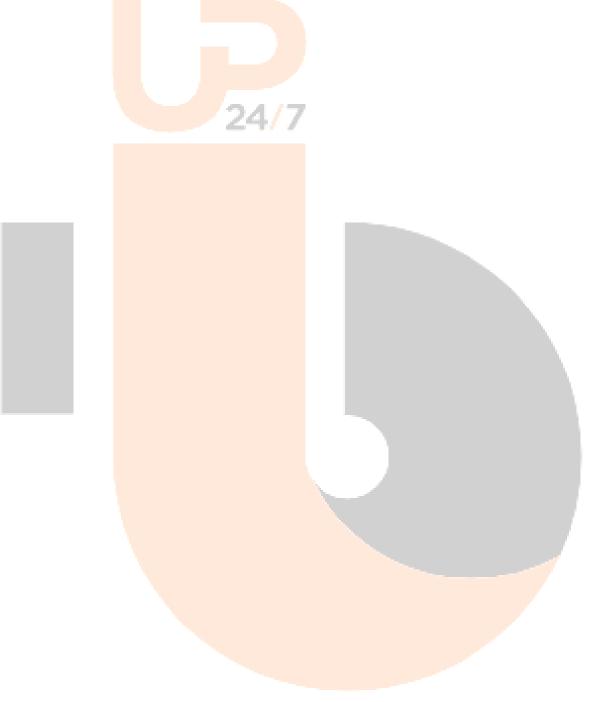
Pattern	
	Match case
Pattern	
Sheet	✓ Match case



11. Click the **Search** button and the result will be displayed.



12. Check all the items or check a specific item, then click the **OK** button to proceed and return to the restore main screen.







14 Mobile Backup and Restore to B247CBS and Predefined Destination

To perform a mobile backup and restore to B247CBS and/or Predefined Destination, follow the instructions below:

- Back up photos, videos, documents and 2FA accounts from Backup247 Mobile app to Backup247 Advanced Client (B247PRO) local destination. For more detailed information, refer to Chapter 10 of the Backup247 Mobile User Guide for Android and iOS.
- 2. Create a File backup set according to the instructions in Chapter 10 Create Backup Set with the following setup:
 - The backup source should be the photos, videos, documents and/or 2FA account(s) backed up in the Backup247 Advanced Client (B247PRO) local destination. In this example, the backup source is located in:

/Users/admin/Documents/Backup247	Advanced	Client
(B247PRO)/%mobile_device%		

	 System Users Trash Trash Trash Tobash_sessions Jobash_sessions Cr\/trogram Files\AhsayCBS\temp AhsayOBM Show files 	Ţ
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The backup destination must be B247CBS and/or Predefined Destination (i.e., Google Drive, OneDrive, Wasabi, etc.)

Destination
Eackup mode Sequential C Existing storage destinations B247CBS Most: 10.3.121.17.80 Add C V
Previous Next Cancel



 After creating the backup set, run a backup job according to the instructions in Chapter 12.2 Start Manual Backup. Below is an example of a backup report for mobile backup data.

		Show	All	~
Type	Log		Time	
0	Start [8247Pro v9.0.0.46]	18/11/	2021 14:2	0.50
Õ	Saving encrypted backup set encryption keys to server	18/11/	2021 14:2	10:50
Ō	Start Backup [Migrate Delta: Full]	18/11/	2021 14:2	0:51
0	Using Temporary Directory /Users/admin/.obm/temp/1637216225999/085(1637216295530	18/11/	2021 14:2	0:51
0	Start running pre-commands	18/11/	2021 14:2	0.53
0	Finished running pre-commands	18/11/	2021 14:2	0:53
0	Downloading server file list	18/11/	2021 14:2	0.53
0	Downloading server file list Completed	18/11/	2021 14:2	10:54
0	Reading backup source from hard disk		2021 14:2	
0	Reading backup source from hard disk Completed	18/11/	2021 14:2	10:55
0	[New Directory] /		2021 14:2	
Θ	[New Directory]/Users		2021 14:2	
0	[New Directory]/Users/admin		2021 14:2	
0	[New Directory]/Users/admin/Documents		2021 14:2	
0	[New Directory] /Users/admin/Documents/AhsayOBM		2021 14:2	
0	[New Directory] /Users/admin/Documents/AhsayOBM/Androidv10		2021 14:2	
Q.	[New Directory] /Users/admin/Documents/AhsayO6M/Androidv10/1636438090708		2021 14:2	
Q.	[New Directory] /Users/admin/Documents/AhsayO6M/Androidv10/1637206325281		2021 14:2	
n.	DisertoryL/Users/admin/Documents/AhsavOBM/Andmidy10/DPF0rthanHDzylnONyTalavm2tfutFbGX1h1yF2M	18/11/	2021 14:2	0.55
ogs i	per page 50 V		Page 1	17 -

4. Restore data according to the instructions in Chapter 13.2 Restore Data.

There are two (2) options to restore data from B247CBS and/or Predefined Destination 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 Backup 247 Advanced Client (B247PRO) 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.

NOTE: Restore to alternate location is not supported on another Backup247 Advanced Client (B247PRO) machine. Options 1 and 2 must be on the original machine where the backups were performed.

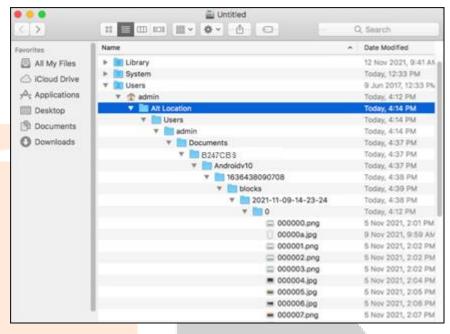
In case the original machine is no longer available, Backup247 Advanced Client (B247PRO) will be able to restore the photos, videos and 2FA accounts from B247CBS or Predefined Destination to the mobile backup destination folder. However, as the mobile devices were not originally paired with the new installation or machine, the mobile devices will not be able to restore the photos, videos and 2FA accounts from the Backup247 Advanced Client (B247PRO).



• **Option 1:** Copy the restored data from the alternate location to the original location which is the **backup destination for your mobile device**.

Example of the Alternate location:

/Users/admin/Alt Location



Example of the Original location:

/Users/admin/Documents

	👜 Untitled	
< >		Q Search
Favorites	Name	 Date Modified
All My Files	🔻 🛅 Users	9 Jun 2017, 12:33 Ph
	🔻 🏠 admin	Today, 4:12 PM
ICloud Drive	Alt Location	Today, 4:14 PM
yd Applications	C/Users\Administrator\temp	21 Sep 2021, 5:09 PF
Desktop	Desktop	9 Jun 2017, 1:53 PM
	Documents	16 Nov 2021, 1:21 PM
Documents	B247CB\$	Today, 11:30 AM
O Downloads	🔻 🛅 Androidv10	Today, 4:43 PM
	v 🛅 1636438090708	9 Nov 2021, 2:09 PM
Shared	V blocks	Today, 4:43 PM
@ All	7 2021-11-09-14-23-24	9 Nov 2021, 2:23 PM
	v 🛅 0	9 Nov 2021, 2:24 PM
Tags	= 000000.png	5 Nov 2021, 2:01 PM
Red	00000a.jpg	9 Nov 2021, 9:59 AN
Orange	= 000001.png	5 Nov 2021, 2:02 PM
	= 000002.png	5 Nov 2021, 2:02 PM
Yellow	= 000003.png	5 Nov 2021, 2:02 PM
Green	= 000004.jpg	5 Nov 2021, 2:04 PM
Blue	= 000005.jpg	5 Nov 2021, 2:05 PM
	= 000006.jpg	5 Nov 2021, 2:06 PM
Purple	= 000007.png	5 Nov 2021, 2:07 PM
Gray		

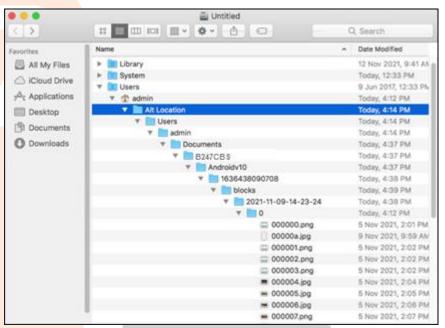
You can now use the Backup247 Mobile app to restore the photos, videos, documents and 2FA accounts back to your mobile device.



• **Option 2:** Copy the restored data from the alternate location to your Android or iOS mobile device.

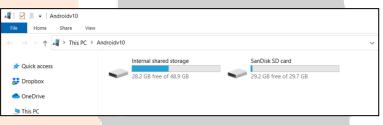
Instructions:

• For an Android device, you need to plug your cable and transfer the restored data from the alternate location to your mobile device storage.



Example of the Alternate location: /Users/admin/Alt Location

Mobile device storage: Android device Internal storage and SD card



 For an iOS device, you need to transfer the restored data from the alternate location to iCloud.

Example of the Alternate location: /Users/admin/Alt Location



	🚔 Untitled		
< >		9	2 Search
Favorites	Name	^	Date Modified
All My Files	Library		12 Nov 2021, 9:41 AM
C iCloud Drive	System		Today, 12:33 PM
	🔻 🛄 Users		9 Jun 2017, 12:33 Ph
2 ⁰ € Applications	🔻 🁚 admin		Today, 4:12 PM
Desktop	Alt Location		Today, 4:14 PM
	🔻 🛅 Users		Today, 4:14 PM
Documents	🔻 🛅 admin		Today, 4:14 PM
O Downloads	🔻 🛅 Documents		Today, 4:37 PM
	* B247CB\$		Today, 4:37 PM
	🔻 🚞 Androidv10		Today, 4:37 PM
	v 🛅 1636438090708		Today, 4:38 PM
	🔻 🛅 blocks		Today, 4:39 PM
	7 2021-11-09-14-23-24		Today, 4:38 PM
	v 🛅 0		Today, 4:12 PM
	🚍 000000.png		5 Nov 2021, 2:01 PM
	00000a.jpg		9 Nov 2021, 9:59 AM
	🖂 000001.png		5 Nov 2021, 2:02 PM
	🚍 000002.png		5 Nov 2021, 2:02 PM
	🚍 000003.png		5 Nov 2021, 2:02 PM
	■ 000004.jpg		5 Nov 2021, 2:04 PM
	= 000005.jpg		5 Nov 2021, 2:05 PM
	🗯 000006.jpg		5 Nov 2021, 2:06 PM
	= 000007.png		5 Nov 2021, 2:07 PM

Upload to iCloud using the iCloud app

iCloud		-		×
	iCloud Drive			
	Photos	(Options	
iCloud	Mail, Contacts, Calendars, and Tasks With Outlook			
	Bookmarks With Chrome	(Options	
@gmail.com	You have 5.00 GB of iCloud storage.			
	4.97 GB		Storage	
Account details			iCloud He	<u>elp</u>
Sign out	A	pply	Close	





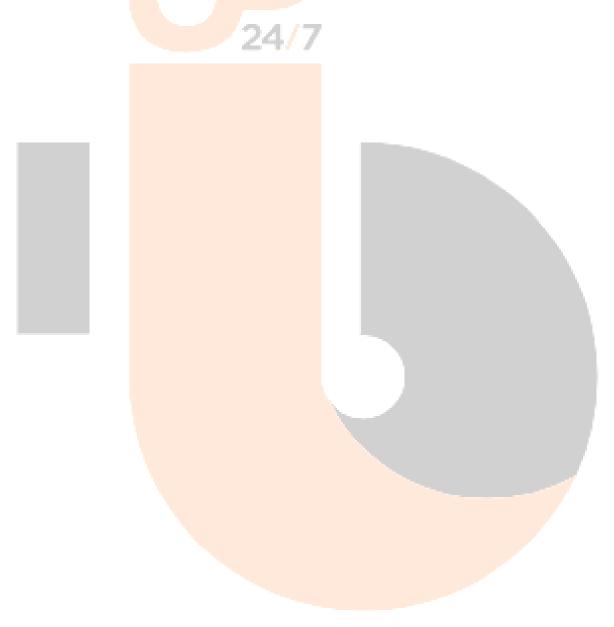
15 Contact Backup247

15.1 Technical Assistance

To contact Backup247 support representatives for technical assistance, visit our website https://backup247.com.au/Support.php

15.2 Documentation

Documentations for all Backup247 modules, user guide and QuickStart are available on our website. Alternatively, email us on support@backup247.com.au for technical demo.





Appendix

Appendix A: Uninstall Backup247 Advanced Client (B247PRO)

1. Click **Go** at the top menu bar, then select **Utilities**.

Go Window Help]
Back	¥[
Forward	¥]	
Enclosing Folder	₩↑	
All My Files	<mark></mark> ሪ #F	
Documents	<mark></mark> ት እ	
🔜 Desktop	企業D	
Ownloads	€¥L	100
😭 Home	 ት ዝ	1.1
Computer	<mark></mark> ት እ	
AirDrop	ሰ	
Overwork	<mark></mark> ት #K	
Cloud Drive	ひ第1	
Applications	ዮ፠A	
💥 Utilities	<mark></mark> ዮ <mark>װ</mark>	
Recent Folders	•	
Go to Folder	企業G	
Connect to Server	. ЖК	

2. Double click the Terminal.app icon.



Terminal.app

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 Backup247 Advanced Client (B247PRO) folder.

```
#[user]-Mac-mini:Applications [user]$ cd Backup247 Advanced Client
(B247PRO).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 Backup247 Online Backup Manager

#Wait 5 seconds before Scheduler exits



#Kill Process by Image Name:/Applications/Backup247 Advanced Client (B247PRO).app/jvm/bin/bJW

#Ignore Process by Image Name:

#Kill Process by Image Name: /Applications/Backup247 Advanced Client (B247PRO).app/jvm/bin/bschJW

#Ignor<mark>e Pr</mark>ocess by Image Name:

#Kill Process by Image Name: /Applications/Backup247 Advanced Client (B247PRO).app/jvm/bin/java

#Ignore Process by Image Name:

#Remove LaunchDaemons for com.Backup247 Advanced Client
(B247PRO).scheduler from service

247

#Remove Backup247 Advanced Client (B247PRO) from Your Mac OS

#[user]-Mac-mini:bin [user]\$



Appendix B: Example Scenarios for Restore Filter

Example No.1: Restore filter setting from /Users/admin/Documents/My Documents/TestFiles with filter type Contains

Location:	/Users/admin/Documents/My Documents/TestFiles
Search subfolders:	True
Kind:	Files and Directories
Туре:	Contains
Pattern:	Set
Match Case:	True 24/7

Follow the step-by-step procedure indicated on Restore Filter.

Look in /Users/admin/Documents/My Documents/TestFiles Search subfolders Kind Type Files and Directories Contains Set Search Name In Folder Size Date modified Items per page 50 Solution	Search				
Search subfolders Kind Type Pattern Files and Directories contains Set Search Name In Folder Size Date modified		ts/My Documents	/TestFiles	Change	
Files and Directories Contains Set Search Match case Name In Folder Size Date modified Date modified	Search subfolders			change	
Name In Folder Size Date modified	Files and Directories 👻		Set	✓ Match case	
		7	Size		Cancel



					•
Search					
Look in					
	ta (Mu De sum ente (T	a stEilas		Channe	
/Users/admin/Documen	ts/My Documents/1	estriles		Change	
Search subfolders	T				
Kind		Pattern		-	
Files and Directories 👻	contains 👻	Set		✓ Match case	
Searching	Stop				
Name	In Folder	Size	Date	modified	
ltems per page 50 👻	-		Pa	uge 1/1 🗸	
			ľ	Previous	OK Cancel
			L	THEVIOUS	Vext Cancel
					Cancer
Search					
Look in	ts/My Documents/Ti	estFiles			
Look in /Users/admin/Documen	ts/My Documents/To	estFiles	-	Change	
Look in		estFiles 'attern	-		
Look in /Users/admin/Documen I Search subfolders Kind	Туре Р			Change	
Look in /Users/admin/Documen ✔ Search subfolders	Туре Р	lattern			
Look in /Users/admin/Documen Search subfolders Kind Files and Directories Search BackupSet_001.txt BackupSet_002.txt BackupSet_004.txt	Type P contains V /Users/admin/Documer /Users/admin/Documer /Users/admin/Documer	lattern	56 KB 27/08 56 KB 27/08 56 KB 27/08 56 KB 27/08 56 KB 27/08	Change	
Look in /Users/admin/Documen Search subfolders Kind Files and Directories Search BackupSet_001.txt BackupSet_002.txt BackupSet_004.txt	Type P contains V /Users/admin/Documer /Users/admin/Documer /Users/admin/Documer /Users/admin/Documer	'attern Set In Folder nts/My Documents/TestFiles nts/My Documents/TestFiles nts/My Documents/TestFiles	56 KB 27/08 56 KB 27/08 56 KB 27/08 56 KB 27/08 56 KB 27/08	✓ Match case e modified /2019 18:14 /2019 18:14 /2019 18:14 /2019 18:14	
Look in /Users/admin/Documen ✓ Search subfolders Kind Files and Directories ✓ Search BackupSet_001.txt BackupSet_001.txt BackupSet_003.txt BackupSet_003.txt BackupSet_005.txt	Type P contains V /Users/admin/Documer /Users/admin/Documer /Users/admin/Documer /Users/admin/Documer	'attern Set In Folder nts/My Documents/TestFiles nts/My Documents/TestFiles nts/My Documents/TestFiles	56 KB 27/08 56 KB 27/08 56 KB 27/08 56 KB 27/08 56 KB 27/08	Change ✓ Match case e modified /2019 18:14 /2019 18:14 /2019 18:14 /2019 18:14	OK Cancel

Explanation:

All files and directories under <u>/Users/admin/Documents/My Documents/TestFiles</u> 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. This means that 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/My Documents/TestFiles with filter type Starts With

Location:	/Users/admin/Documents/My Documents/TestFiles					
Search subfolders:	True					
Kind:	Files					
Туре:	Starts With					
Pattern:	A					
Match Case:	True					

Follow the step-by-step procedure indicated on Restore Filter.

Search					
Look in					
/Users/admin/Document	s/My Documents/	TestFiles		Change	
 Search subfolders Kind 	Туре	Pattern			
Files only 🗸	starts with \checkmark	A		✓ Match case	
Search Name		In Folder	Siże	Date modified	
ltems per page 50 🗸]			Page – 🗸	
ltems per page 50 👻]				OK Cancel



Sear	ch								
Look in									
		nente	s/My Documents	s/TestFiles			Change		
	rch subfolders		.,,				change		
Kind	ren subioluers		Type	Pattern					
Files o	nly	~	starts with V	A			✓ Match case		
These			starts with •				u materi case		
Searchi	ing		Stop						
	Manaa			In Folder	5	ize Da	te modified		
	Name			in rolder	3	ize Da			
ltems n	er page 50	~	1				Page – 🗸		
	c. page						. ugu		
								OK Ca	ncel
						Î	Previous	Next Ca	ncel
									meer
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	-								
			_					-	
Sear	ch				_				
Sear					_	-			
Look in	(-		•	-	_			
Look in	(nents	s/My Documents	s/TestFiles	-	_	Change		
Look in /Users ✓ Sea	(nents	s/My Documents	s/TestFiles	-		Change		
Look in /Users ✓ Sea Kind	s/admin/Docun rch subfolders	nents	Туре	Pattern	-				
Look in /Users ✓ Sea	s/admin/Docun rch subfolders	nent:					Change		
Look in /Users I Sear Kind Files o	s/admin/Docun rch subfolders only		Туре	Pattern					
Look in /Users ✓ Sea Kind	s/admin/Docun rch subfolders only		Туре	Pattern					
Look in /Users Zear Kind Files o Searc	s/admin/Docun rch subfolders mly ch	~	Type starts with 👻	Pattern A In Folder			✓ Match case e modified		
Look in /Users V Sear Files o Searc	s/admin/Docun rch subfolders only ch Name lertMessage0001.	▼ .jpg	Type starts with /Users/admin/Dc	Pattern A In Folder ocuments/My Documen	ts/TestFiles 4	490 KB 27/08	Match case e modified /2019 18:11		
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Look in /Users ✓ Sear Kind Files o Searro A A A A A A A A A A A A	s/admin/Docun rch subfolders nly ch lertMessage0001. lertMessage0002. lertMessage0002.	Jpg Jpg Jpg	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder cuments/My Documen cuments/My Documen cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4	490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08	Match case		
Look in /Users V Sear Kind Files o Searc A A A A A A A A	s/admin/Docun rch subfolders nly ch Name lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0004.	Jpg Jpg Jpg Jpg Jpg	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder In Folder In Folder Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 4.2 MB 27/08	✓ Match case e modified (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11)		
Look in /Users V Sear Kind Files o Searc A A A A A A A A	s/admin/Docun rch subfolders nly ch Name lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0004.	Jpg Jpg Jpg Jpg Jpg	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder cuments/My Documen cuments/My Documen cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 4.2 MB 27/08	✓ Match case e modified (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11)		
Look in /Users Sear Kind Files o Sear A A A A A A A A A A A	s/admin/Docun rch subfolders only ch lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0005. ttendance_2014. ttendance_2014.	jpg jpg jpg jpg jpg doc doc	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder In Folder In Folder Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 400 KB 27/08 4.2 MB 27/08	✓ Match case e modified /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11		
Look in /Users Sear Kind Files o Sear A A A A A A A A A A A	s/admin/Docun rch subfolders nly ch Name lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0004.	jpg jpg jpg jpg jpg doc doc	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder In Folder In Folder Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 400 KB 27/08 4.2 MB 27/08	✓ Match case e modified (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11 (2019 18:11)		
Look in /Users Sear Kind Files o Sear A A A A A A A A A A A	s/admin/Docun rch subfolders only ch lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0005. ttendance_2014. ttendance_2014.	jpg jpg jpg jpg jpg doc doc	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder In Folder In Folder Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 400 KB 27/08 4.2 MB 27/08	✓ Match case e modified /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11		
Look in /Users Sear Kind Files o Sear A A A A A A A A A A A	s/admin/Docun rch subfolders only ch lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0005. ttendance_2014. ttendance_2014.	jpg jpg jpg jpg jpg doc doc	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder In Folder In Folder Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 400 KB 27/08 4.2 MB 27/08	✓ Match case e modified /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11		
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Look in /Users Sear Kind Files o Sear A A A A A A A A A A A	s/admin/Docun rch subfolders only ch lertMessage0001. lertMessage0003. lertMessage0003. lertMessage0005. ttendance_2014. ttendance_2014.	jpg jpg jpg jpg jpg doc doc	Type starts with /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc /Users/admin/Dc	Pattern A In Folder In Folder In Folder Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen Cuments/My Documen	ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 4 ts/TestFiles 1	490 KB 27/08 400 KB 27/08 4.2 MB 27/08	✓ Match case e modified /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:11 /2019 18:12 /2019 18:12 /2019 18:12	ОКСа	

Explanation:

All files and directories under <u>/Users/admin/Documents/My Documents/TestFiles</u> 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. This means that 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/My Documents/TestFiles with filter type Ends With

Location:	/Users/admin/Documents/My Documents/TestFiles					
Search subfolders:	True					
Kind:	Files and Directories					
Туре:	Ends With					
Pattern:	g					
Match Case:	True					

Follow the step-by-step procedure indicated on Restore Filter.

Search			
Look in /Users/admin/Document	ts /My Documents	/TestFiles	Change
Search subfolders	Туре	Pattern	Change
Files and Directories 👻	ends with 👻	g	✓ Match case
ltems per page 50 🗸			Page - 🖌
			ок С
			Previous Next C



Look in						
/Users/admin/Document	s/My Documents,	/TestFiles		Change		
 Search subfolders 						
Kind	Туре	Pattern				
Files and Directories 👻	ends with 🖌	g	5	 Match case 		
Searching	Stop					
Name		In Folder	Size Da	te modified		
ltems per page 50 👻]			Page – 👻		
					OK Cancel	
Search						
			-			
Look in	s/My Documents	TactFilos	-	Change		
Look in /Users/admin/Documents	s/My Documents/	TestFiles	_	Change	,	
Look in /Users/admin/Document: 🖌 Search subfolders			_	Change		
Look in /Users/admin/Document: I Search subfolders Kind	Туре	Pattern				
Look in /Users/admin/Document: 🖌 Search subfolders				Change Match case		
Look in /Users/admin/Document: I Search subfolders Kind Files and Directories	Type ends with /Users/admin/Do /Users/admin/Do /Users/admin/Do	Pattern		Match case te modified //2019 18:11 //2019 18:11 //2019 18:11		
Look in /Users/admin/Document: Search subfolders Kind Files and Directories Search Search Name AlertMessage0002.jpg AlertMessage0002.jpg AlertMessage0002.jpg AlertMessage0002.jpg AlertMessage0002.jpg	Type ends with /Users/admin/Do /Users/admin/Do /Users/admin/Do	Pattern g In Folder cuments/My Documents/TestFiles cuments/My Documents/TestFiles cuments/My Documents/TestFiles	Size Dat 490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08 490 KB 27/08	Match case te modified //2019 18:11 //2019 18:11 //2019 18:11		

Explanation:

All files and directories under <u>/Users/admin/Documents/My Documents/TestFiles</u> 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. This means that 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 'g'.



Example No.4: Restore filter setting from /Users/admin/Documents/My Documents/TestFiles with filter type Exact

Location:	/Users/admin/Documents/My Documents/TestFiles					
Search subfolders:	True					
Kind:	Files and Directories					
Туре:	Exact					
Pattern:	SpreadSheet_05.xlsx					
Match Case:	True					

Follow the step-by-step procedure indicated on Restore Filter.

/Users/admin/Docu	ment	s/My Docu	ments/	TestFiles		Change
✓ Search subfolders Kind		Туре		Pattern		
Files and Directories	~	exact	~	SpreadSheet_05.xls	x	✓ Match case
Name				In Folder	Size	Date modified
Items per page 50	~]				Page – 🗸



	ts/My Docum	nents/T	TestFiles		Change	
 Search subfolders 	to, my bocum	ienes/ i			Change	
Kind	Type	1	Pattern			
Files and Directories 👻	1	V	SpreadSheet_05.xlsx		✓ Match case	
Searching	Stop					
Name			In Folder	Size D	ate modified	
					-	
Items per page 50 👻					Page – 👻	
					ок	Cancel
				-	Previous Next	Cancel
				[Previous Next	Cancel
				[Previous Next	Cancel
Search				[Previous Next	Cancel
Search					Previous Next	Cancel
Look in						Cancel
Look in /Users/admin/Documen	ts/My Docum	nents/T		_	Previous Next	Cancel
Look in /Users/admin/Documen ✓ Search subfolders						Cancel
Look in /Users/admin/Documen	Туре		FestFiles Pattern SpreadSheet_05.xlsx			Cancel
Look in /Users/admin/Documen I Search subfolders Kind	Туре		Pattern		Change	Cancel
Look in /Users/admin/Documen 🗹 Search subfolders Kind Files and Directories 🗸	Type exact	•	Pattern		Change	Cancel
Look in /Users/admin/Documen Search subfolders Kind Files and Directories Search Name	Type exact	•	Pattern SpreadSheet_05.xlsx In Folder		✓ Match case	Cancel
Look in /Users/admin/Documen Search subfolders Kind Files and Directories Search Name	Type exact	•	Pattern SpreadSheet_05.xlsx In Folder		✓ Match case	Cancel
Look in /Users/admin/Documen Search subfolders Kind Files and Directories Search Name	Type exact /Users/adm	•	Pattern SpreadSheet_05.xlsx In Folder	s 8 KB 27/0	✓ Match case	Cancel

Explanation:

All files and directories under <u>/Users/admin/Documents/My Documents/TestFiles</u> 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.

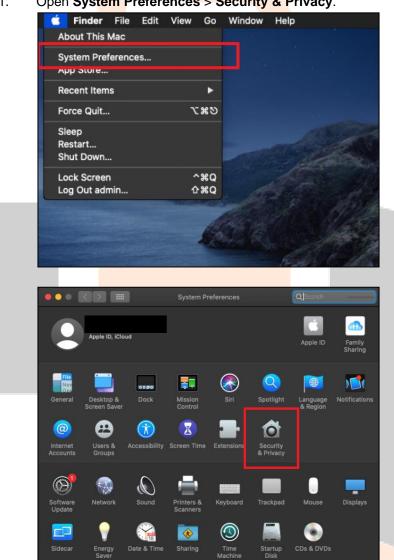
The restore filter setting includes the Search subfolder and Match case set to true. This means that the filter will include all available subfolders in /TestFiles upon searching. And it will strictly search only the specified pattern and case which starts with 'SpreadSheet_05.xlsx'.



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.

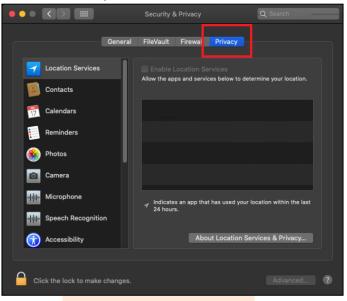
Here are the steps on how to setup and grant Backup247 Advanced Client (B247PRO) a Full Disk Access:



1. Open System Preferences > Security & Privacy.



2. Select the **Privacy** tab.



3. Select **Full Disk Access**, then click the lock icon.

		Security & F	rivacy		-Q Search -	
	General	FileVault	Firewall	Privacy		
Calendars						
Reminders		Allow the apps	and servic	es below to det	ermine your location.	
🛞 Photos	- 11					
Camera	- 11					
Microphone						
Speech Recognition	'n					
G Accessibility		Indicates :	n ann that	has used your l	ocation within the last	
Input Monitoring		✓ 24 hours.		nas useu your i		
Full Disk Access			Abou	ıt Location Se	rvices & Privacy	
L						
Click the lock to make	changes.					
0						
Click the	lock to	o make c	hange	s.		

4. Enter the <u>System Administrator credentials</u> and click the **Unlock**.

Δ	System Preferences is trying to unlock Security Privacy preferences.							
O	Enter your password to allow this.							
	Username:							
	Password:							
			Cancel	Unlock				



5. Click the plus icon.

		Security & Privacy	Q Search
	General	FileVault Firewall	Privacy
Calendar	5	Allow the apps below to Messages, Safari, Home	access data like Mail, , Time Machine backups and
Reminder	s		ettings for all users on this Mac.
🌸 Photos	_		
Camera	- 11		
Micropho	ne		
	ecognition		
Accessib	ility	ΞΞ	
Input Mo	hitoring		
Full Disk	Access		
Click the lock	to prevent further c	hanges.	Advanced ?

6. Click the Applications, then select Backup247 Advanced Client (B247PRO), and click Open.



This message will appear if you have the Backup247 Advanced Client (B247PRO) open. Click **Quit Now** to proceed.

\odot	B247Pro will no until it is quit. You can choose to your own later.		
		Later	Quit Now



7. Backup247 Advanced Client (B247PRO) has now Full Disk Access.







Appendix D: Create Free Trial Account in Backup247 Advanced Client (B247PRO)

Users can create a free trial account when they login to Backup247 Advanced Client (B247PRO) for the first time. Please ensure that the following requirements are met before creating your trial account:

• A valid email address which will be used for receiving notices. A welcome message will also be sent upon creation of the account which specifies the User Setting and Quota set for backup in B247CBS.

While here are the limitations of a trial account:

- The Free Trial button will only be displayed once when the user login for the first time. If you cannot create a free trial account kindly contact your backup service provider.
- Only alphanumeric characters and selected special characters, A to Z, 0 to 9, @, and _, are allowed to be used for the Login name. While there may be some limitations on password complexity and age which is determined by the backup service provider. Please contact your backup service provider for further details.
- The add-on modules available and quota size are determined by your backup service provider.
- The trial account period is determined by your backup service provider. Please contact your backup service provider for details.

NOTE

The Free Trial Registration option may not be available. This depends on the settings of your backup service provider. Please contact Backup247 Technical Support for more information.

Follow the steps below to create a Free Trial backup account in Backup247 Advanced Client (B247PRO).

	English
00 B247Pro	
The Best On-Premises & Cloud Backup Software	
Free Trial or Login	

1. Click on Free Trial.



2. Configure your Backup Server settings.

Backup Server	
http V 10.16.10.108 Proxy (HTTP)	v
Use proxy to access the Internet	
	ок

3. Enter the Login name that you want. Also provide your email address and password. Confirm your password and click **OK** to create your trial account.

/ 7

-

	English
0 В247Рго	
Register Trial User	
Login name Email	
Password	
Confirm password	
*All fields are required	
	OK



B247Pro Trial Version		trial 🙎 English 🗸 🗸	0
Backup	Backup Sets	Report	in C
Restore	Settings	Utilities	
	All instructio	ns are there	

4. Once the trial account is created, this screen will be displayed.

5. If the user has input their email at **Step 3**, they will periodically receive an email notification(s) about the changes to their trial account such as backup report(s), or when the expiration date of their trial period is approaching in less than 10 days.

o me 💌		☆ ♠
GB247CBS		
Dear User001,		
Your trial account will expire in 3 Below is the trial information of th	days.Please contact your administrator for his account.	or further action.
Below is the trial information of the User	his account.	or further action.
Below is the trial information of the	User001	or further action.