



Ahsay Cloud Backup Suite v8

User's Guide

Ahsay Systems Corporation Limited

30 April 2021

Copyright Notice

© 2021 Ahsay Systems Corporation Limited. All rights reserved.

The use and copying of this product is subject to a license agreement. Any other use is prohibited. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language in any form by any means without prior written consent of Ahsay Systems Corporation Limited. Information in this manual is subject to change without notice and does not represent a commitment on the part of the vendor, Ahsay Systems Corporation Limited does not warrant that this document is error free. If you find any errors in this document, please report to Ahsay Systems Corporation Limited in writing.

This product includes software developed by the Apache Software Foundation (<https://www.apache.org/>).

Trademarks

Ahsay, Ahsay Cloud Backup Suite, Ahsay Online Backup Suite, Ahsay Offsite Backup Server, Ahsay Online Backup Manager, Ahsay A-Click Backup, Ahsay Replication Server, Ahsay BackupBox Firmware, Ahsay Universal Backup System and Ahsay NAS Client Utility, Ahsay Mobile are trademarks of Ahsay Systems Corporation Limited.

Amazon S3 is a registered trademark of Amazon Web Services, Inc., or its affiliates.

Apple and Mac OS X, macOS, and iOS are registered trademarks of Apple Computer, Inc.

Dropbox is a registered trademark of Dropbox Inc.

Google Cloud Storage, Google Drive, Google Authenticator, and Android are registered trademarks of Google Inc.

Wasabi Hot Cloud Storage is a registered trademark of Wasabi Technologies Inc.

Backblaze B2 Cloud Storage is a registered trademark of Backblaze Inc.

MariaDB is a registered trademark of MariaDB Corporation AB.

Lotus, Domino, and Notes are registered trademark of IBM Corporation.

Microsoft Windows, Microsoft Exchange Server, Microsoft SQL Server, Microsoft Hyper-V, Microsoft Azure, OneDrive, OneDrive for Business, Microsoft Authenticator, and Microsoft Office 365 are registered trademarks of Microsoft Corporation.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Oracle 11g, Oracle 12c, Oracle 18c, Oracle 19c, and MySQL are registered trademarks of Oracle Corporation.

Rackspace and OpenStack are registered trademarks of Rackspace US, Inc.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo and JBoss are registered trademarks of Red Hat, Inc. www.redhat.com in the U.S. and other countries.

Linux is a registered trademark of Linus Torvalds in the U.S. and other countries.

Ubuntu is a registered trademark of Canonical Ltd.

ShadowProtect is a registered trademark of StorageCraft Technology Corporation.

VMware ESXi, vCenter, and vSAN are registered trademarks of VMware, Inc.

All other product names are registered trademarks of their respective owners.

Disclaimer

Ahsay Systems Corporation Limited will not have or accept any liability, obligation or responsibility whatsoever for any loss, destruction or damage (including without limitation consequential loss, destruction or damage) however arising from or in respect of any use or misuse of reliance on this document. By reading and following the instructions in this document, you agree to accept unconditionally the terms of this Disclaimer and as they may be revised and/or amended from time to time by Ahsay Systems Corporation Limited without prior notice to you.

Revision History

Date	Descriptions	Type of modification
25 January 2021	Added 2FA login in Ch. 1.4; Added Ahsay Mobile and MariaDB in Ch. 1.6, 3.2 and 3.3; Added Authentication and Mobile tab in Ch. 2.3	New / Modification
05 February 2021	Updated Ch. 1.4 Logging on to AhsayCBS User Web Console; Added Ch. 1.4.1, Ch. 1.4.2, and Ch. 1.4.3	New / Modification
11 February 2021	Removed AhsayMOB in Ch. 1.6, 2.3.2, 3.2 and 3.3	Modification
25 March 2021	Updated Ch. 1.4.2, 1.4.2.1 and 1.4.2.2; Added storage statistics calculation in Ch. 2.6; Added different run direct restore scenarios in Ch. 5.3	Modification
30 April 2021	Updated discussion on storage statistic in Ch. 2.6; Updated diagram in Ch. 5.1	Modification

Table of Contents

1. Overview	1
1.1 Introduction	1
1.2 About This Document	2
1.3 Requirements for Using the AhsayCBS User Web Console	2
1.4 Logging on to AhsayCBS User Web Console	3
1.4.1 Login to AhsayCBS without 2FA	3
1.4.2 Login to AhsayCBS with 2FA using Android or iOS mobile device	5
1.4.2.1 Initial login to AhsayCBS with 2FA	5
1.4.2.2 Subsequent login to AhsayCBS with 2FA	14
1.4.3 Login to AhsayCBS with 2FA using Twilio	19
1.5 Resetting Your Password	21
1.6 Downloading Software	23
1.7 Changing the Language	26
1.8 Invoking Online Help	27
2. Managing Your AhsayCBS User Account.....	28
2.1 Login to AhsayCBS.....	28
2.2 Managing AhsayCBS Backup User.....	28
2.3 User Profile	29
2.3.1 General Tab.....	29
2.3.2 Backup Client Settings Tab.....	31
2.3.3 Contact Tab	37
2.3.4 User Group Tab.....	39
2.3.5 Authentication Tab	40
2.3.6 Mobile Backup Tab.....	45
2.4 Settings	46
2.5 Report.....	47
2.5.1 Backup Reports	47
2.5.2 Restore Reports	50
2.6 Statistics.....	53
2.7 Effective Policy.....	58
3. Monitoring Live Activities	61
3.1 Managing Live Activities	61
3.2 Backup Status.....	62
3.3 Restore Status	63
4. Managing Backup Set	65
4.1 Create Backup Set (Generic Steps).....	66
4.2 Manage Backup Set.....	80

4.3	Run a Backup Job.....	81
4.4	Restore a Backup (Non-Run Direct Restore).....	82
5.	Run Direct Restore	83
5.1	Introduction	83
5.2	Run Direct Restore Options.....	86
5.3	Performing a Run Direct Restore on VM.....	87
5.3.1	Restore a backup from VMFS datastore to VMFS datastore	87
5.3.2	Restore a backup from VMFS datastore to vSAN datastore	94
5.3.3	Restore a backup from vSAN datastore to vSAN datastore.....	100
5.3.4	Restore a backup from vSAN datastore to VMFS datastore.....	104
6.	Contacting Ahsay	110
6.1	Technical Assistance	110
6.2	Documentation	110
Appendix	111
	Appendix A Set Backup Destination on AhsayOBM for Backup Sets Created on AhsayCBS User Web Console	111

1. Overview

1.1 Introduction

What is this software?

Ahsay Cloud Backup Suite v8 allows you to back up your data on the cloud. You can access the AhsayCBS server environment easily on a user web console. This is a user interface that allows you to login remotely to a backup server.

The **User** option in the main interface allows the AhsayCBS user to update user profile and manage other settings such as reports.

The **VM Run Direct** option allows the AhsayCBS user to restore a VM by running it directly from the backup files in the AhsayCBS. This is much faster than extracting from backup files and copying to the production storage, which can take hours to complete. This feature helps reduce disruption and downtime of your production VMs. Administrator can troubleshoot on the failed virtual machine, while users are back in production with minimal disruption.

The **Live Activities** option is a monitoring tool which allows you to view the backup jobs and restore jobs as they are running as well as to view all jobs that were run within the previous 1 hour.



1.2 About This Document

What is the purpose of this document?

This document aims at providing all necessary information for you to work with the AhsayCBS server at the user level to manage backup and restore jobs.

What should I expect from this document?

After reading through this documentation, you can expect to have sufficient knowledge to perform various tasks on the AhsayCBS server. These include modifying user profile settings, monitoring the backup and restore processes real time, and running the AhsayCBS from a virtual machine directly.

Who should read this document?

This documentation is intended for IT professionals who need to work with AhsayCBS server at the user level.

1.3 Requirements for Using the AhsayCBS User Web Console

In order to use the AhsayCBS user web console, you need the following:

- **Internet connection**

You need to have internet connection to access the AhsayCBS user web console.

- **Web browsers**

The AhsayCBS User Web Console runs with all major browsers. Please make sure that you are using the latest version and enable pop-ups on your preferred web browsers.



Apple Safari



Google Chrome



Microsoft
Edge



Microsoft Internet
Explorer



Mozilla
Firefox

- **AhsayCBS login account**

You need an AhsayCBS login account to access the AhsayCBS server component.

NOTE

Please contact your Ahsay backup service provider to create an AhsayCBS login account for you.

1.4 Logging on to AhsayCBS User Web Console

Starting with AhsayCBS v8.5.0.0, you will find a new feature introduced with this latest version which is the Two-Factor Authentication. With this new feature, there are several scenarios that will be encountered for first time login, if Two-Factor Authentication is enabled on the user account. Login steps for the different scenarios will be discussed in this chapter.

- ▶ [Login to AhsayCBS without 2FA](#)
- ▶ [Login to AhsayCBS with 2FA using Android or iOS mobile device](#)
- ▶ [Login to AhsayCBS with 2FA using Twilio](#)

1.4.1 Login to AhsayCBS without 2FA

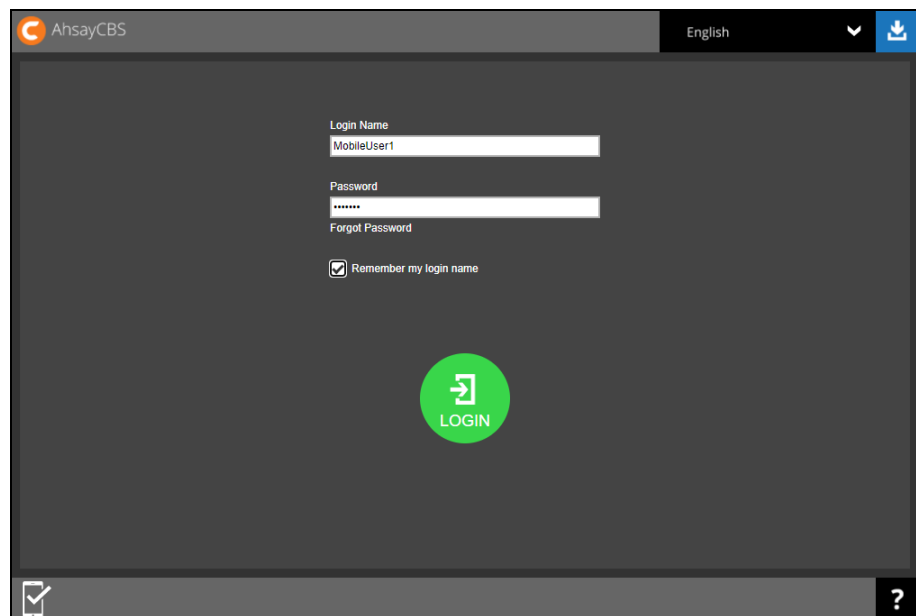
To login to AhsayCBS without two-factor authentication, please follow the steps below:

1. Login to the AhsayCBS User Web Console at
`https://<IP_AhsayCBS_Server>:443/`

NOTE

Contact your backup service provider for the URL to connect to the web console if necessary.

2. Enter the Login Name and Password of your AhsayOBM/AhsayACB account then click **LOGIN**.



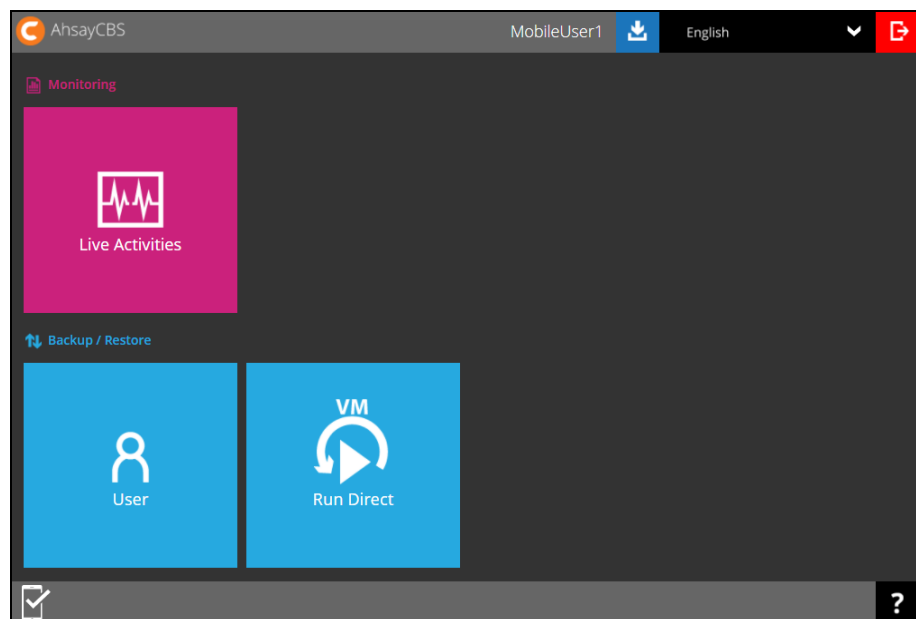
The screenshot shows the AhsayCBS User Web Console login interface. At the top left, there is the AhsayCBS logo and the text 'AhsayCBS'. At the top right, there is a language dropdown menu set to 'English' and a download icon. The main content area is dark gray and contains the following elements:

- A 'Login Name' input field with the text 'MobileUser1' entered.
- A 'Password' input field with masked characters '*****'.
- A 'Forgot Password' link below the password field.
- A checkbox labeled 'Remember my login name' which is checked.
- A large green circular button with a white right-pointing arrow and the word 'LOGIN' in white text.

At the bottom left, there is a small white checkmark icon, and at the bottom right, there is a small white question mark icon.

3. After successful login, the following screen will appear with the available options:

- ▶ **Live Activities** – for monitoring of backup and restore activities
- ▶ **User** – for backup and restore
- ▶ **Run Direct** – for backup and restore
- ▶ **Download** – able to download the following products: AhsayOBM, AhsayACB, Mobile, and AhsayOBR
- ▶ **Language** – for multiple selection of languages
- ▶ **Logout** – exit from the AhsayCBS Web Console
- ▶ **Online Help** – able to check brief descriptions and instructions of each module



1.4.2 Login to AhsayCBS with 2FA using Android or iOS mobile device

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

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

To log in to AhsayCBS with two-factor authentication, here are the two scenarios:

- [Initial login to AhsayCBS with 2FA](#)
- [Subsequent login to AhsayCBS with 2FA](#)

1.4.2.1 Initial login to AhsayCBS with 2FA

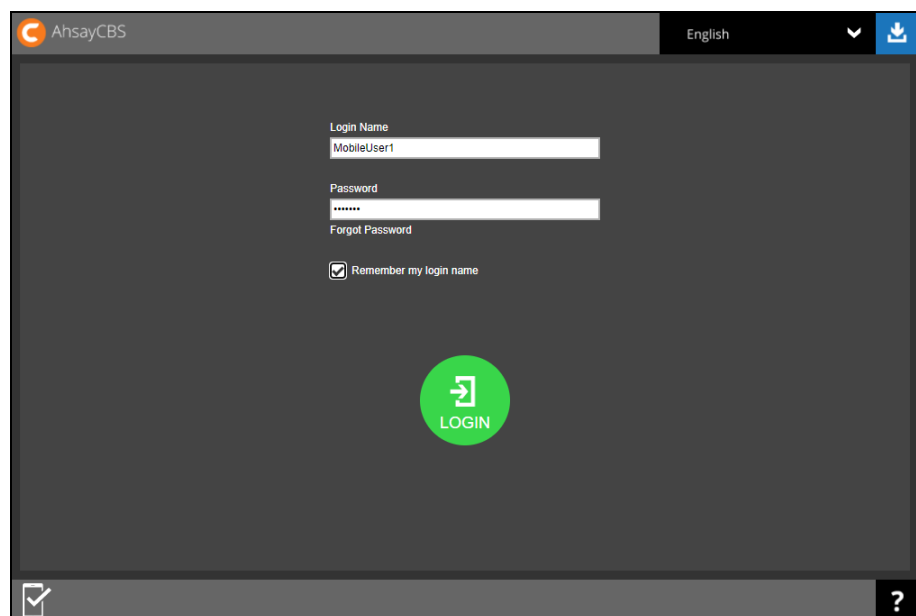
When logging in to AhsayCBS for the first time with two-factor authentication, please follow the steps below:


1. Login to the AhsayCBS User Web Console at
`https://<IP_AhsayCBS_Server>:443/`

NOTE

Contact your backup service provider for the URL to connect to the web console if necessary.


2. Enter the Login Name and Password of your AhsayOBM/AhsayACB account then click **LOGIN**.





- To set up your two-factor authentication, click  to proceed with setting up the 2FA.

New Ahsay Mobile App, Free of Charge!

Keep Hackers Off
All hackers delete backup data after compromising a machine. Use Two-Factor Authentication (2FA) to keep hackers off your backup data and turn ransomware harmless.






- Download the Ahsay Mobile app from the App Store / Google Play Store.


Mobile App Download

Please use your mobile device to get the below Mobile App from Apple App Store / Google Play Store.

 **Ahsay Mobile**

Once ready, hit [Next] button to continue the setup.



Or, for branded CBS, download the mobile app by entering the URL provided in your device's browser or you can also scan the QR code by clicking the **Or click here to scan QR code** link.


Mobile App Download

Please download the Mobile App "Ahsay Mobile" by typing the following URL in your mobile devices browser:

[https://\[redacted\]/cbs/AppDownload.do?token=S1dace](https://[redacted]/cbs/AppDownload.do?token=S1dace)

[Or click here to scan QR code](#)

Once ready, hit [Next] button to continue the setup.



Click  to proceed.

5. Select your country code and enter your phone number. Click Send the **SMS Verification code** to receive the passcode.

Two-Factor Authentication Setup

For first time activation of Two-Factor Authentication feature, mobile device needs to pair with a verified phone number for account recovery.


Phone number

Philippines (+63)

*This phone number will be used for account security and recovery only. Please be reminded that standard SMS charge will be applied.

[Send SMS Verification code](#)

[Click here to download Mobile App "Ahsay Mobile"](#)

6. Enter the verification code sent to your mobile device then click  to proceed.

Two-Factor Authentication Setup

For first time activation of Two-Factor Authentication feature, mobile device needs to pair with a verified phone number for account recovery.

Phone number

Philippines (+63)

*This phone number will be used for account security and recovery only. Please be reminded that standard SMS charge will be applied.

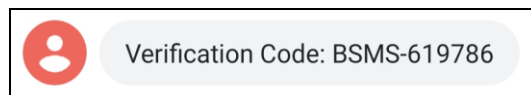
Verification code

BSMS - (00:04:38)

[Resend SMS Verification code](#)

[Click here to download Mobile App "Ahsay Mobile"](#)

Example of the verification code sent to mobile device



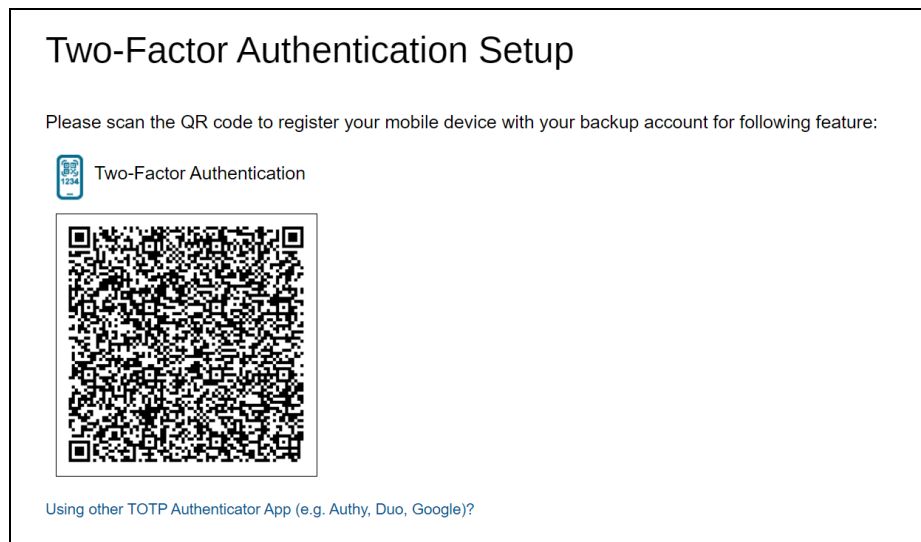
7. Ahsay Mobile supports two types of authentication method:
- Push Notification
 - TOTP

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

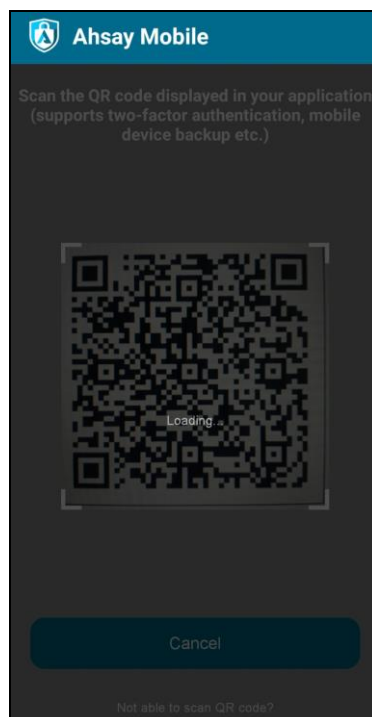
- Push Notification and TOTP (default mode)
or
- TOTP only

Push Notification and TOTP (default mode)

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




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



- ii. After successful scan of the QR code, you have now registered Ahsay Mobile for Push Notification and TOTP 2FA.

Two-Factor Authentication Setup

You have registered "Androidv10" for the following feature:


Two-Factor Authentication


TOTP only

- i. To configure a TOTP only 2FA with Ahsay Mobile, click the **“Using other TOTP Authenticator App (e.g. Authy, Duo, Google)?”** link.

Two-Factor Authentication Setup

Please scan the QR code to register your mobile device with your backup account for following feature:

Two-Factor Authentication





[Using other TOTP Authenticator App \(e.g. Authy, Duo, Google\)?](#)

- ii. After clicking the **“Using other TOTP Authenticator App (e.g. Authy, Duo, Google)?”** link, the QR code for the TOTP Authenticator app will be displayed.

Two-Factor Authentication Setup

Please scan the QR code or input Secret Key to register your mobile device with your backup account for following feature:

Two-Factor Authentication



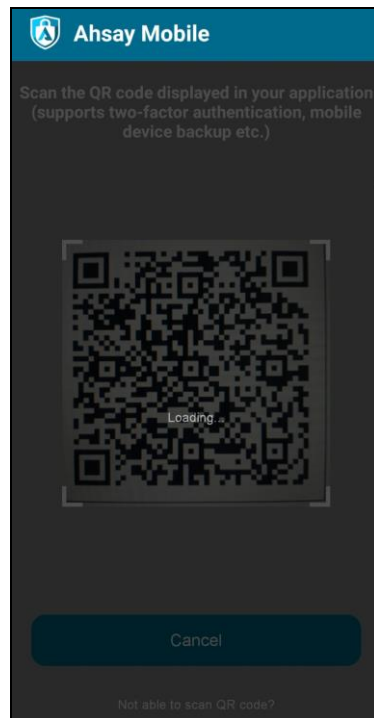
Secret Key: 6FHJ 3UUM 2X7O N25D

Enter a display name for user profile.

Enter the one-time password generated by Authenticator App.
 (00:00:15)

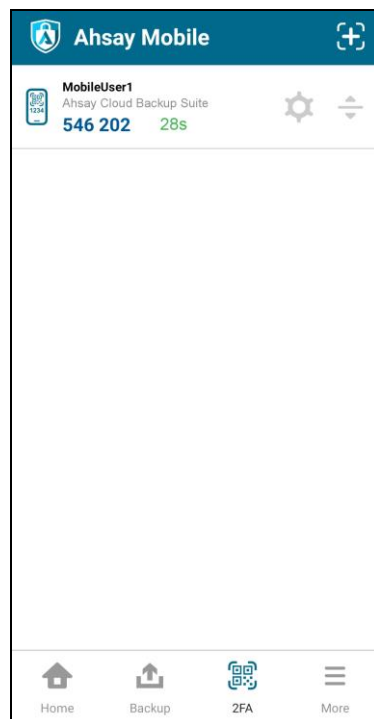
[Using Ahsay Mobile](#)


- iii. Scan the QR code using the Ahsay Mobile app.



- iv. After successful scan of the QR code, a TOTP account corresponding to the login name of the AhsayOBM, i.e. "MobileUser1" is created on Ahsay Mobile.


Example of the one-time password generated by Ahsay Mobile.



- v. Enter a display name for user profile, then input the TOTP generated by Ahsay Mobile. After entering the necessary details, click  to finish the registration process.

Two-Factor Authentication Setup

Please scan the QR code or input Secret Key to register your mobile device with your backup account for following feature:

 Two-Factor Authentication



Secret Key: 6FHJ 3UUM 2X7O N25D

Enter a display name for user profile.

Enter the one-time password generated by Authenticator App.

(00:00:02)

[Using Ahsay Mobile](#)

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


Two-Factor Authentication Setup

You have registered "MobileUser1" for the following feature:




Two-Factor Authentication

Alternatively, you may also use a third-party TOTP Authenticator App (e.g. Authy, Duo, Google).

Either scan the QR code using the third-party authenticator app or enter the Secret Key in the third-party authenticator app. After doing so, the one-time password will be generated in the authenticator app. Enter a name and the one-time password generated in the authenticator app and click .

Two-Factor Authentication Setup

Please scan the QR code or input Secret Key to register your mobile device with your backup account for following feature:

 Two-Factor Authentication



Secret Key: 6FHB EGSL BPLX QZBF

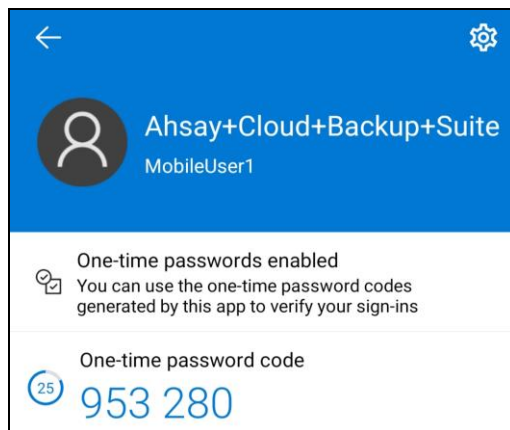
Enter a display name for user profile.

Enter the one-time password generated by Authenticator App.

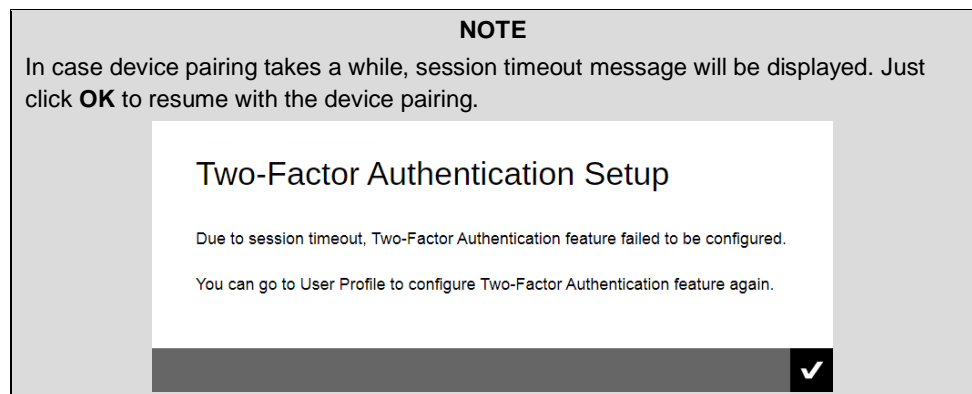
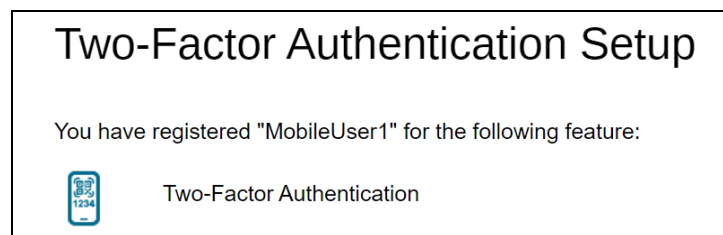
(00:00:15)

[Using Ahsay Mobile](#)

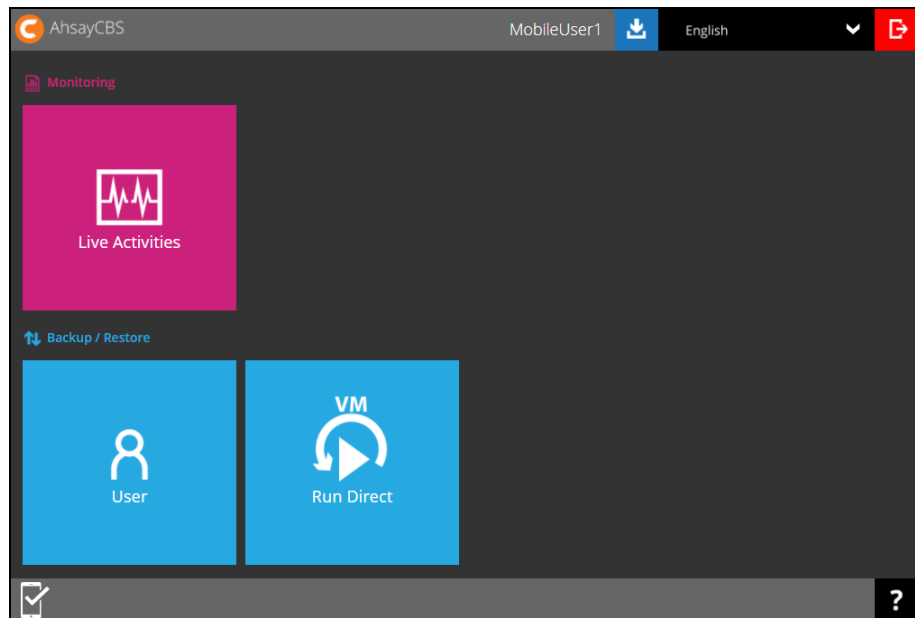
Example of the one-time password generated in the third-party Authenticator App Microsoft Authenticator.



Once the registration is successful, the following screen will be displayed. You have now registered a third-party authenticator app for 2FA.



8. After successful login, the following screen will appear with the available options:
- **Live Activities** – for monitoring of backup and restore activities
 - **User** – for backup and restore
 - **Run Direct** – for backup and restore
 - **Download** – able to download the following products: AhsayOBM, AhsayACB, Mobile, and AhsayOBR
 - **Language** – for multiple selection of languages
 - **Logout** – exit from the AhsayCBS Web Console
 - **Online Help** – able to check brief descriptions and instructions of each module



NOTE

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

1.4.2.2 Subsequent login to AhsayCBS with 2FA

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

1. Login to the AhsayCBS User Web Console at
`https://<IP_AhsayCBS_Server>:443/`

NOTE

Contact your backup service provider for the URL to connect to the web console if necessary.

2. Enter the Login Name and Password of your AhsayOBM/AhsayACB account then click **LOGIN**.

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

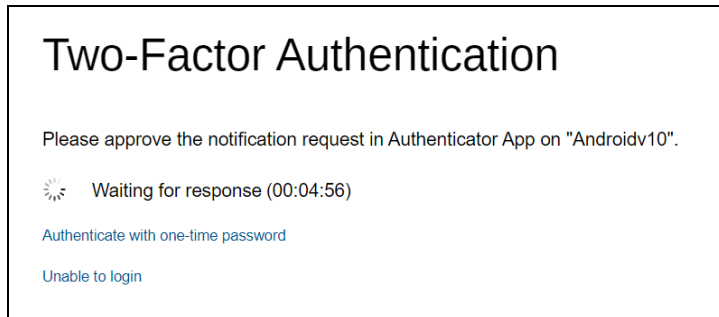
There are two authentication method to choose from it is possible to use both methods on the same AhsayOBM/AhsayACB user account:

- [Ahsay Mobile app](#)
 - Supports two types of authentication:
 - i) Push Notification
 - ii) TOTP
 - Can be configured to support two 2FA modes:
 - i) Push Notification and TOTP (default mode)
 - or
 - ii) TOTP only
- [Third-party TOTP Authenticator App](#)
(e.g. Authy, Duo, Google)

If **Ahsay Mobile app** will be used as authenticator, there are two 2FA modes that can be selected.

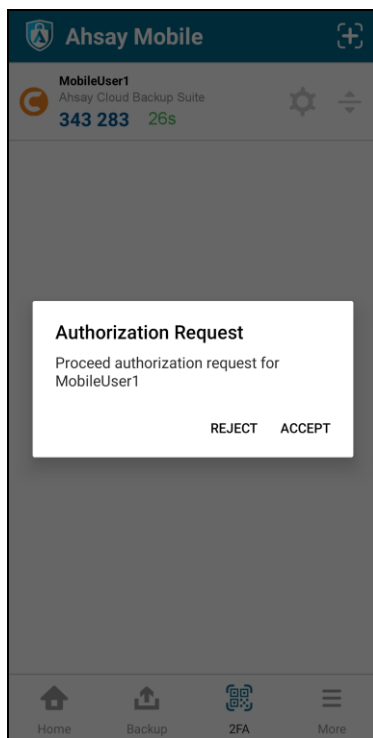
- Push Notification and TOTP (default mode)

Example of the 2FA alert screen on AhsayCBS after login with correct username and password.

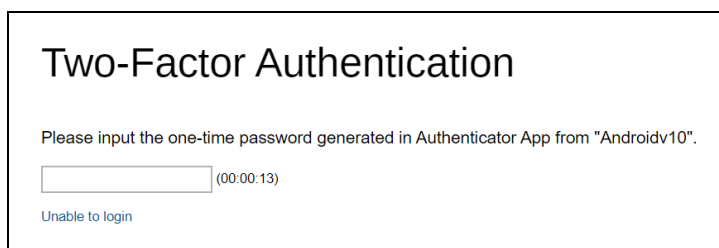


Push notification is the default 2FA mode. Accept the login request on Ahsay Mobile to complete the login.

Example of the login request sent to the Ahsay Mobile app.



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



- TOTP only

Example of the 2FA alert screen on AhsayCBS after login with correct username and password.

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

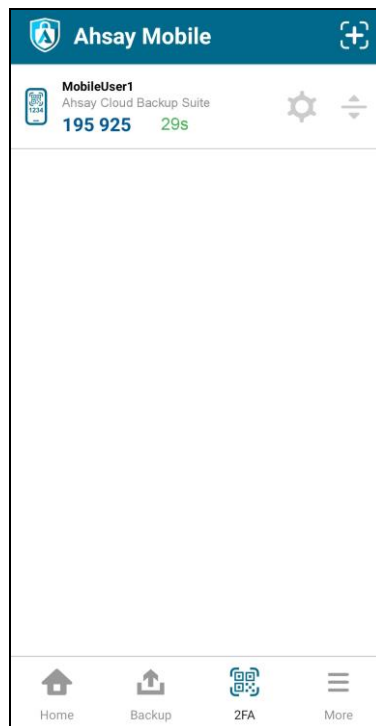
Two-Factor Authentication

Please input the one-time password generated in Authenticator App from "Androidv10".

(00:00:13)

[Unable to login](#)

Example of the one-time password generated by Ahsay Mobile



If a third-party **TOTP Authenticator App** will be used instead, follow the steps below to log in.

Enter the one-time password that is generated by the authenticator app and click **Next**.

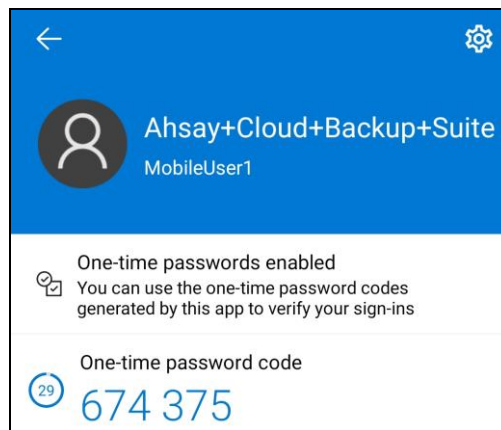
Two-Factor Authentication

Please input the one-time password generated in Authenticator App from "MobileUser1".

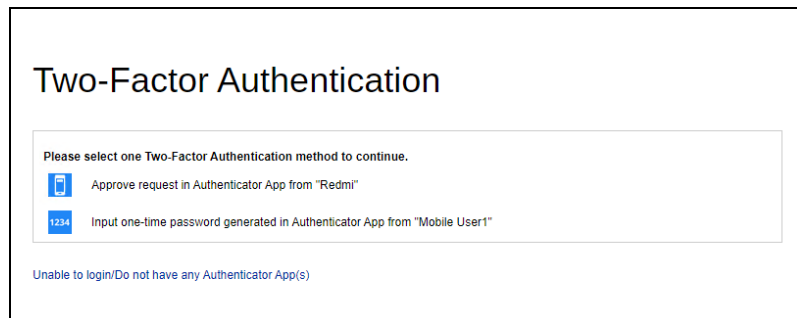
(00:00:17)

[Unable to login](#)

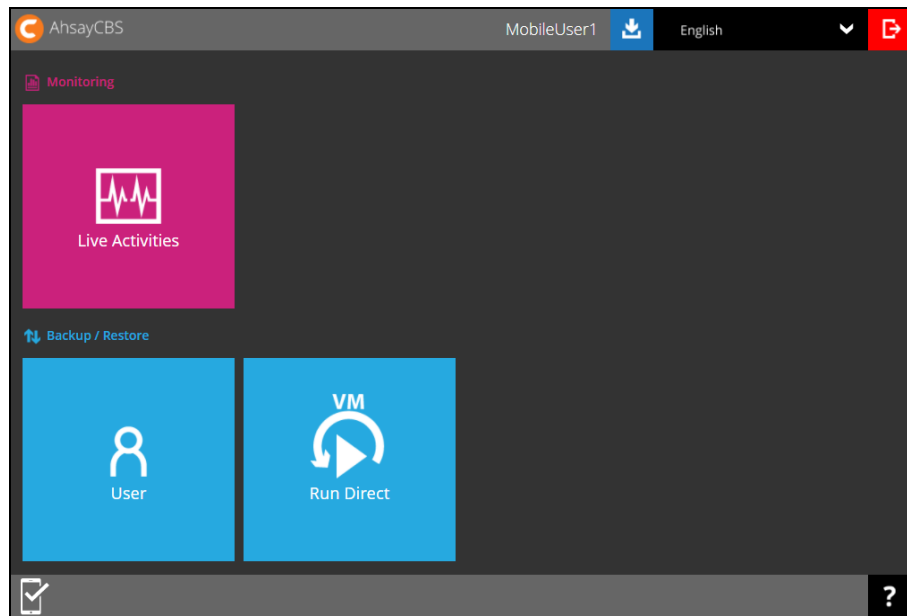
Example of the one-time password generated in the third-party Authenticator App Microsoft Authenticator.



In the following example, both Ahsay Mobile and a third party TOTP Authenticator App has been setup for 2FA. Select your preferred 2FA method from the options available to complete the login.



4. After successful login, the following screen will appear with the available options:
- **Live Activities** – for monitoring of backup and restore activities
 - **User** – for backup and restore
 - **Run Direct** – for backup and restore
 - **Download** – able to download the following products: AhsayOBM, AhsayACB, Mobile, and AhsayOBR
 - **Language** – for multiple selection of languages
 - **Logout** – exit from the AhsayCBS Web Console
 - **Online Help** – able to check brief descriptions and instructions of each module



NOTE

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

1.4.3 Login to AhsayCBS with 2FA using Twilio

For AhsayOBM/AhsayACB user accounts using Twilio, please follow the steps below:


1. Login to the AhsayCBS User Web Console at `https://<IP_AhsayCBS_Server>:443/`

NOTE

Contact your backup service provider for the URL to connect to the web console if necessary.

2. Enter the Login Name and Password of your AhsayOBM/AhsayACB account then click **LOGIN**.

3. Select your phone number.

4. Enter the passcode and click to  login.

Two-Factor Authentication

SMS message with a passcode was already sent to the phone number +63-*****8106 Please enter the passcode to continue login.

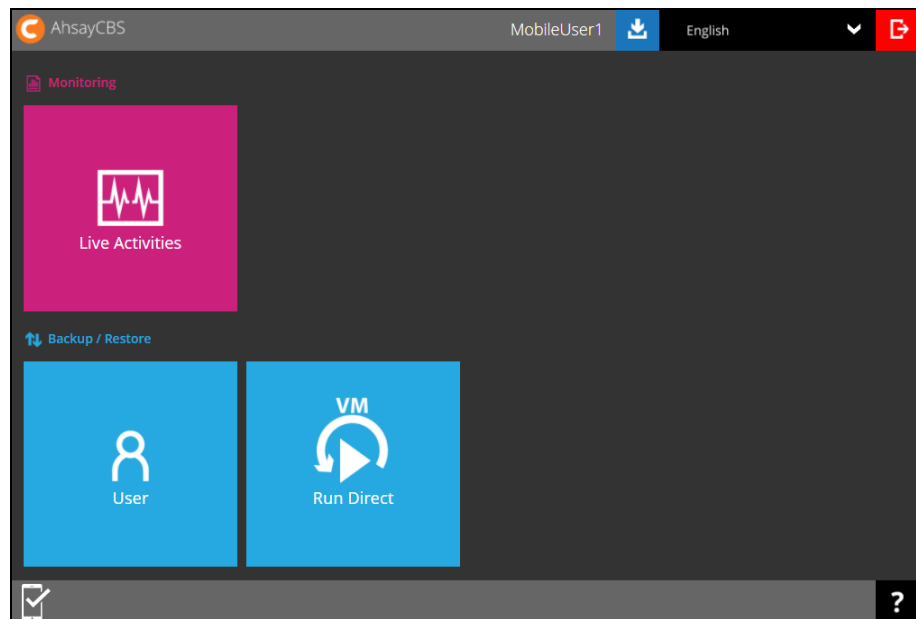
AULB - (00:04:37)

Resend passcode



5. After successful login, the following screen will appear with the available options:

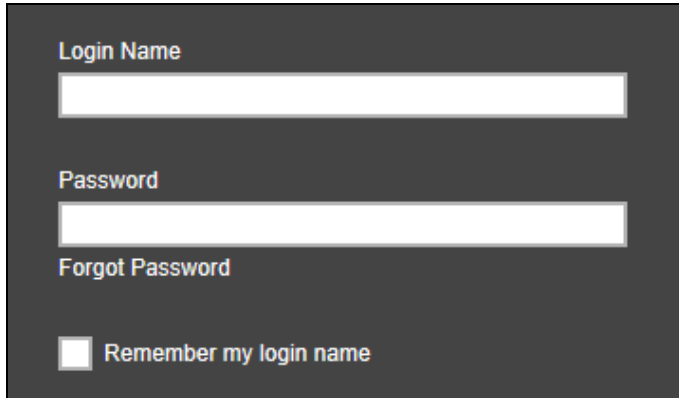
- **Live Activities** – for monitoring of backup and restore activities
- **User** – for backup and restore
- **Run Direct** – for backup and restore
- **Download** – able to download the following products: AhsayOBM, AhsayACB, Mobile, and AhsayOBR
- **Language** – for multiple selection of languages
- **Logout** – exit from the AhsayCBS Web Console
- **Online Help** – able to check brief descriptions and instructions of each module



1.5 Resetting Your Password

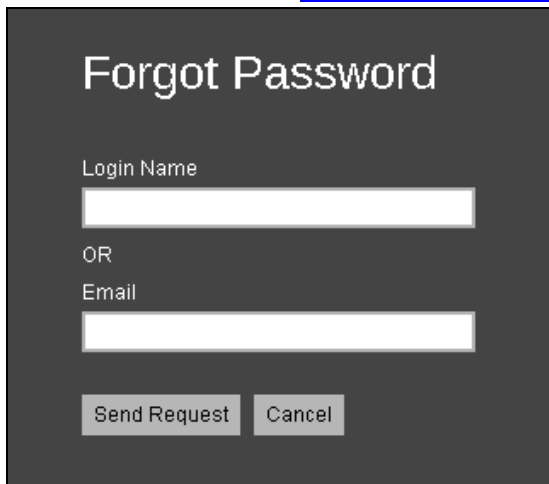
If you have forgotten your password, you can perform the following steps to reset your password.

1. On the AhsayCBS Logon page, click **Forgot Password**.



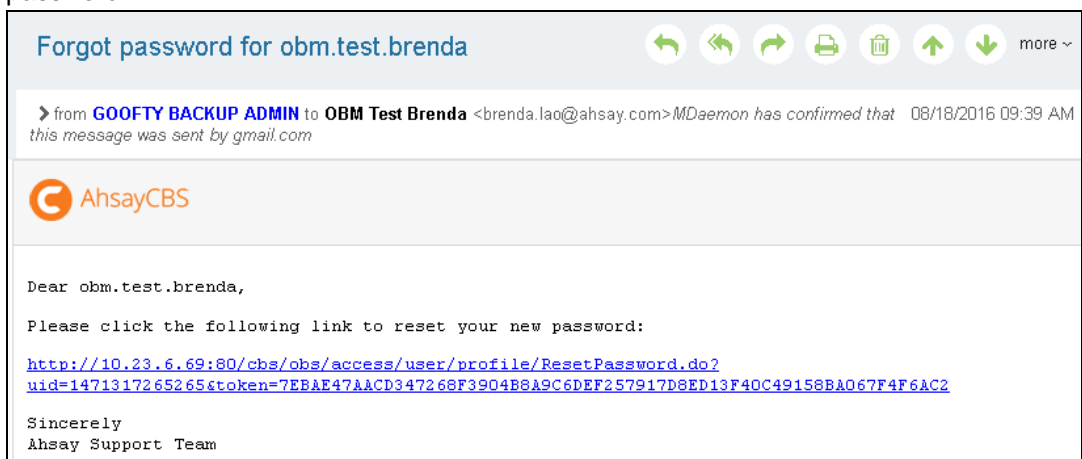
Login Name
[Input Field]
Password
[Input Field]
Forgot Password
 Remember my login name


2. The following screen appears. Enter either your **Login Name** or your **Email** to reset the password. Click **Send Request**. Ensure that you have included your e-mail address on the Manage Contact Information upon the creation of user profile. For further details, this will be discussed on [Ch. 2.3 User Profile, Page 23, Contact Tab](#).



Forgot Password
Login Name
[Input Field]
OR
Email
[Input Field]
Send Request Cancel

3. You will receive an email containing a link. Click on the link to reset your password.



- The Reset Password screen appears. Enter the new **Password** and then **Re-type Password**. Click  to save the modification.

Reset Password

Reset your password

Reset Password

Password

Re-type password

- You will get the following screen confirming that your password has been changed.

Reset Password

Reset your password

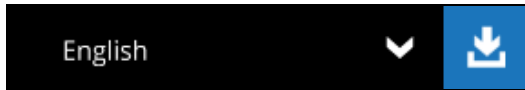
Reset Password

Your password has been changed.

1.6 Downloading Software

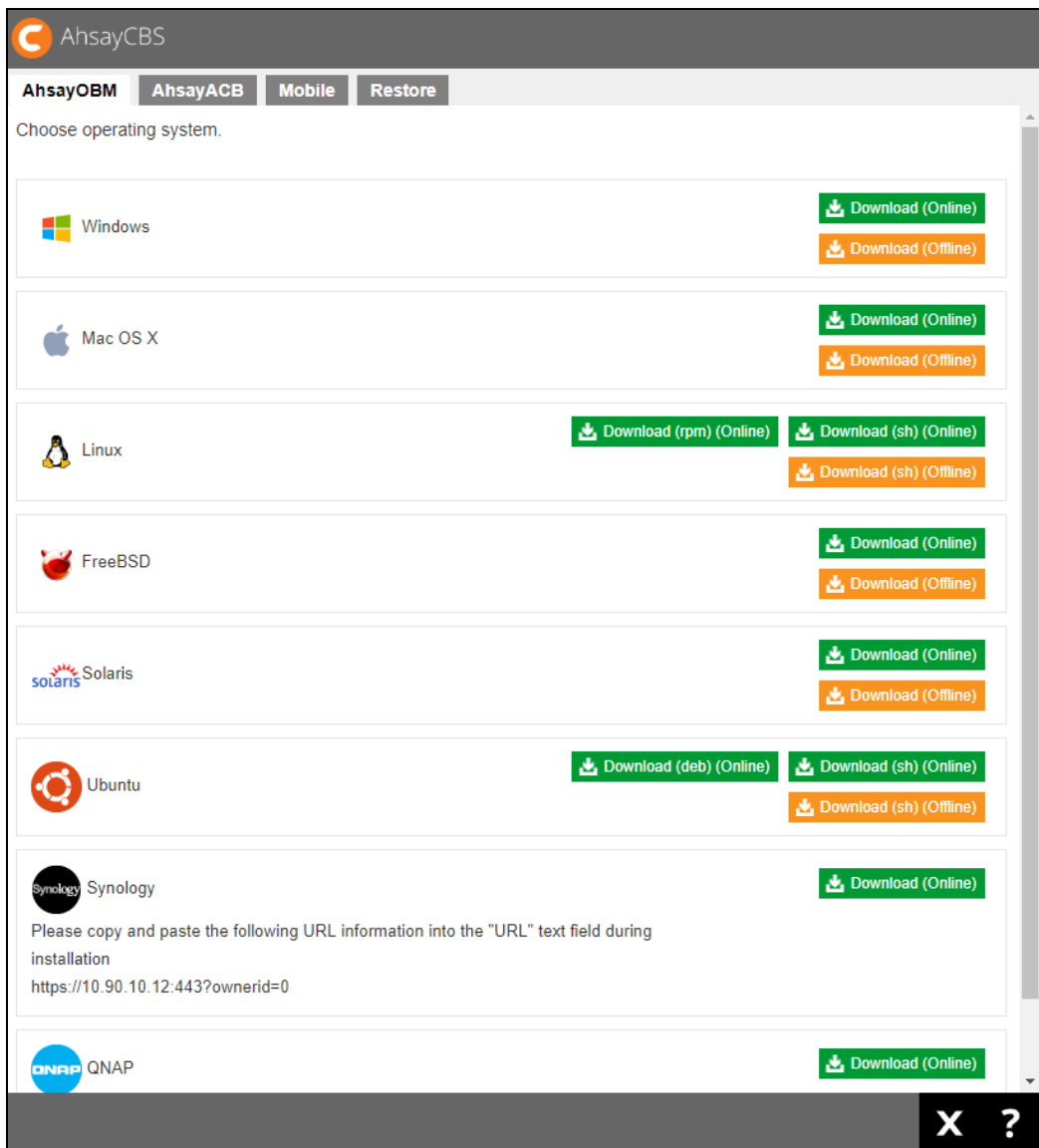
You can choose what client software you wish to download as follows:




1. On the AhsayCBS Logon page, click the downward arrow on the top right-hand corner.




2. The software download page appears. You can choose which product and which platform to download.

There are four (4) available tabs, AhsayOBM, AhsayACB, Mobile, and Restore.



Client Backup Agents	Brief Description
AhsayOBM 	AhsayOBM is a versatile backup application that backup databases, applications, and virtual machines to local and offsite destinations.
AhsayACB 	AhsayACB is an advanced yet easy-to-use desktop and laptop backup software for backing up files, Cloud files, Windows System backup, IBM Lotus Notes and Office 365 to local and offsite destinations.
Ahsay Mobile 	Ahsay Mobile is an easy to use mobile backup application that backup photos and videos to local destination on the AhsayOBM and AhsayACB machine. It can be downloaded from the App Store and Google Play Store.

Client Restore Agent	Brief Description
Restore 	AhsayOBR supports the restore of multiple backup sets; file, databases, and virtual machines, such as VMware, Hyper-V, Microsoft Exchange Database Availability Group (DAG), Microsoft Exchange Database, Microsoft Exchange Mailbox, Microsoft SQL Server, Oracle Database, Lotus Domino/Notes, MySQL, MariaDB, Windows System, Windows System State, ShadowProtect, Synology NAS Devices, Office365, Cloud File with our dedicated restore modules.

AhsayCBS also supports two (2) installation modes, online and offline installation (except for Linux (rpm), Ubuntu (deb), Synology NAS and QNAP which supports online installation only). User can download and run either one of the installers.

Below is the table of comparison between online installation and offline installation.

	Online Installation	Offline Installation
Internet	<ul style="list-style-type: none"> ➤ It cannot be started without an internet connection. ➤ Clients need to have an internet connection each time an installation is run. ➤ If the client internet connection is interrupted or is not stable the installation may be unsuccessful. ➤ Online installer size is 6KB to 3.5MB depending on operating system as it contains only the initial installation package files. 	<ul style="list-style-type: none"> ➤ Once the offline installer is downloaded, the client does not require an internet connection each time an installation is run. ➤ The offline installer size is 80MB to 140MB depending on operating system as it contains all the necessary binary and component files
Backup Server Availability	The online installer requires the backup server to be online in order to run and complete the installation.	An offline installation can be performed independently of the backup server availability.
Installation Time	<ul style="list-style-type: none"> ➤ Takes more time as it needs to download the binary and component files (80MB to 140MB depending on operating system) each time the installation is run. ➤ A slow internet connection on the client machine will also result in longer installation time. 	Takes less time as all the necessary binary and component files are already available in the offline installer.
Version Control	Online installation ensures the latest version of the product is installed.	May need to update the product version after installation if an older offline installer is used.
Administrative Support	Need more time on the support for the installation as network factor might lead to unsuccessful installation.	Need less time as independent of network factor influence.
Deployments	<ul style="list-style-type: none"> ➤ Suitable for single or small amount of device installations. ➤ Suitable for client sites with fast and stable internet connection. 	<ul style="list-style-type: none"> ➤ Suitable for multiple or mass device installations. ➤ Suitable for client sites with metered internet connections.

3. Download the executable and install the product in the usual way.

1.7 Changing the Language

You can change the language of AhsayCBS anytime, whether before or after you have logon to the system.

NOTE

If the language you want is not available, please contact your backup service provider for assistance.

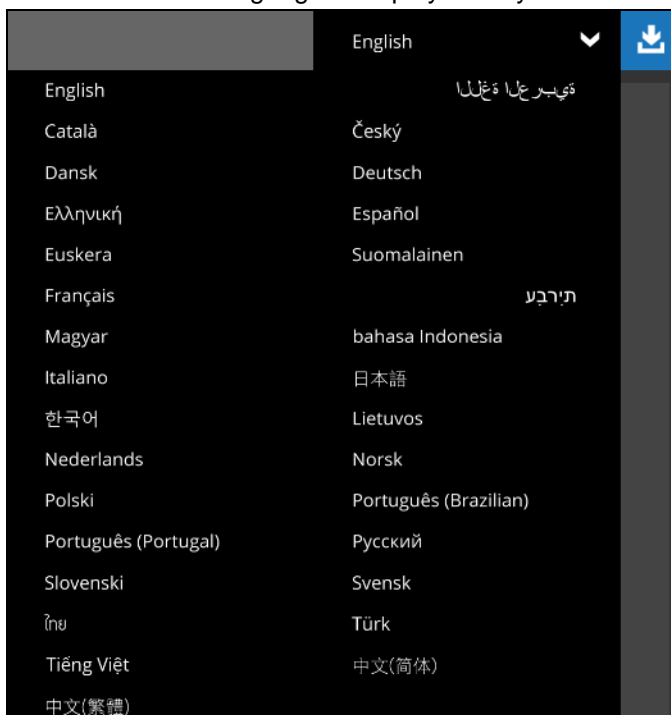
The available languages are:

- ▶ Arabic
- ▶ Chinese (Simplified)
- ▶ Danish
- ▶ Finnish
- ▶ Greek Modern
- ▶ Indonesian
- ▶ Korean
- ▶ Polish
- ▶ Russian
- ▶ Swedish
- ▶ Vietnamese
- ▶ Basque
- ▶ Chinese (Traditional)
- ▶ Dutch
- ▶ French
- ▶ Hebrew
- ▶ Italian
- ▶ Lithuanian
- ▶ Portuguese (Brazilian)
- ▶ Slovenian
- ▶ Thai
- ▶ Catalan
- ▶ Czech
- ▶ English (default)
- ▶ German
- ▶ Hungarian
- ▶ Japanese
- ▶ Norwegian
- ▶ Portuguese (Portugal)
- ▶ Spanish
- ▶ Turkish

1. On the AhsayCBS Logon page, click the downward arrow on the upper right-hand side.



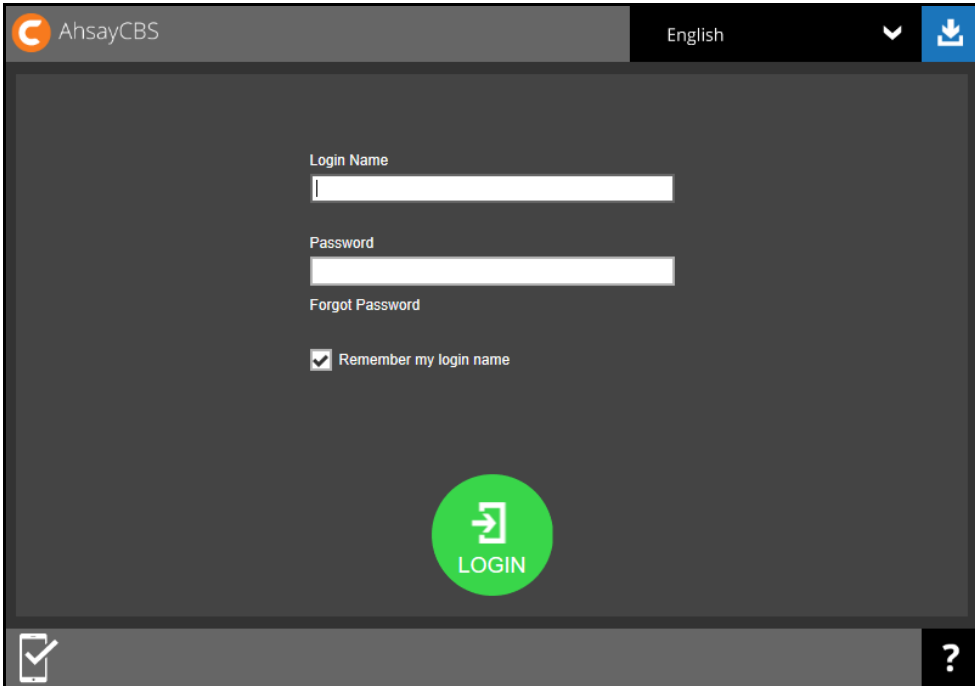
2. A list of available language is displayed for your choice.



1.8 Invoking Online Help

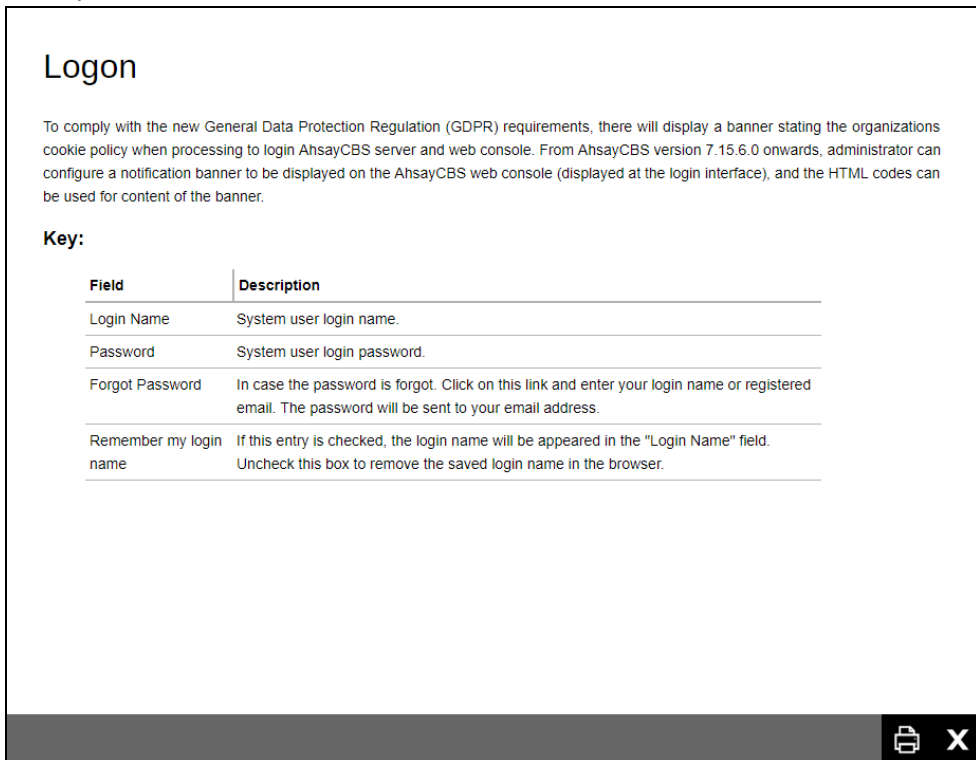
You can invoke the online help if you have problems logging in to the AhsayCBS server.

1. On the AhsayCBS Logon page, click the question mark at the bottom right corner.



2. The online help for the topic “Logon” appears.

It contains detailed description of each field on the logon screen and gives a brief description of each field.



Logon

To comply with the new General Data Protection Regulation (GDPR) requirements, there will display a banner stating the organizations cookie policy when processing to login AhsayCBS server and web console. From AhsayCBS version 7.15.6.0 onwards, administrator can configure a notification banner to be displayed on the AhsayCBS web console (displayed at the login interface), and the HTML codes can be used for content of the banner.

Key:

Field	Description
Login Name	System user login name.
Password	System user login password.
Forgot Password	In case the password is forgot. Click on this link and enter your login name or registered email. The password will be sent to your email address.
Remember my login name	If this entry is checked, the login name will be appeared in the "Login Name" field. Uncheck this box to remove the saved login name in the browser.

3. You can print the online help by clicking  at the bottom right corner. To exit, click **X**.

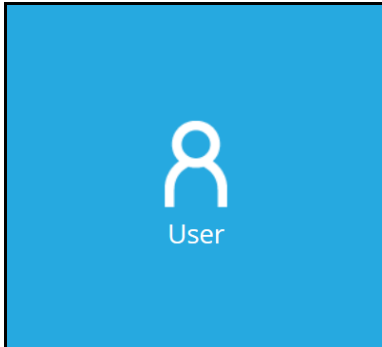
2. Managing Your AhsayCBS User Account

2.1 Login to AhsayCBS

Login to the AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).

2.2 Managing AhsayCBS Backup User

To manage your AhsayCBS backup user account, simply click the **User** icon from your AhsayCBS environment.



You can perform the following operations on your own user account:

- Manage your user profile settings, e.g. New Password, Language, Timezone, Contact Information.
- Customize event log settings, which is supported on AhsayOBM/ AhsayACB clients installed on Windows platform only.
- View backup or restore reports for different time periods.
- View usage statistics by selecting destination, backup set, and period.
- View details of policies and settings on users, backup sets, GUIs, default values, preempted values, preempted backup sets, and mobile. The settings and the availability of this feature is dependent on your backup service provider.
- Register mobile device for two-factor authentication.
- View mobile device registered for mobile backup.

2.3 User Profile

User Profile tab contains your user backup account settings information, subscribed modules backup quota, subscription type, contact information, user group information, two-factor authentication settings and registered mobile device for mobile backup.

Among all the above information, you can modify user backup account settings information, contact information and registered mobile device for two-factor authentication. However, for the subscribed modules backup quota, subscription type, and user group information, as the setting was done when the user account was created, the settings cannot be modified by the user. While the registered mobile device for mobile backup and its backup destination can only be viewed here.

There are six (6) tabs under **User Profile**, each of which is described below:

2.3.1 General Tab

The following shows the General tab under the User Profile settings page.

The screenshot displays the 'User Profile' settings page, specifically the 'General' tab. The page is divided into a left sidebar and a main content area. The sidebar contains navigation links: Backup Set, Settings, Report, Statistics, and Effective Policy. The main content area is titled 'General information of this user.' and contains several sections:

- Basic**: Includes fields for ID (1607015428255), Login Name (WindowsTest_1), and Alias. The Login Name field is marked as 'Owner'.
- Home Directory**: A text field containing the path C:\Program Files\AhsayCBS\user\WindowsTest_1.
- Subscription Type**: Radio buttons for Trial User and Paid User (selected).
- Suspend At**: A date field set to 04-12-2020 (dd-mm-yyyy).
- Status**: Radio buttons for Enable (selected), Suspended, and Locked.
- Upload Encryption Key**: A checked checkbox for 'Upload encryption key after running backup for recovery'.
- Language**: A dropdown menu set to English.
- Timezone**: A dropdown menu set to GMT+08:00 (CST).
- Notes**: A large empty text area for additional information.

There are several groups of settings under the **General** tab, and they are described below.

Section	Description
Basic	<p>There are three (3) elements in the Basic section, which are the following:</p> <ul style="list-style-type: none"> • ID of the backup user, this is system generated and cannot be changed. • Login Name of the backup user, defined by the service provider which cannot be changed. • Alias is another name for the backup user which can be modified.
Home Directory	<p>This is the path where your backup data is stored on AhsayCBS backup destination.</p> <p>This was set when your account was created and cannot be modified by the user.</p>
Subscription Type	<p>There are two (2) subscription types: Trial User and Paid User. Trial users are subject to automatic removal after the trial period. Paid users do not have such restrictions.</p> <p>This was set when your account was created and cannot be modified by the user. If you need to change it, please contact your backup service provider.</p>
Suspend At	<p>This shows the date when a trial user account is scheduled to be suspended.</p> <p>This was set when your account was created and cannot be modified by the user. If you need to update it, please contact your backup service provider.</p>
Status	<p>There are three (3) user account statuses: Enable, Suspended, and Locked. The Locked status refers to account lockout rules. For example, when the user has three (3) consecutive unsuccessful login attempts, the user account will be locked.</p> <p>This was set when your account was created and cannot be modified by the user. If you need to change it, please contact your backup service provider.</p>
Upload Encryption Key	<p>To enable or disable this feature please contact your backup service provider for support. The encryption key file will be uploaded to the backup server when a backup run.</p> <p>If you forget the encryption key, please contact your backup service provider for support.</p>
Language	Select your preferred language for all email reports.
Timezone	Select the time zone of the backup user.
Notes	A field for the AhsayCBS user to add notes.

NOTE

The **Mobile Backup** tab will only be visible if Mobile Add-on Module is enabled.

2.3.2 Backup Client Settings Tab

This shows the **Backup Client Settings** tab under the **User Profile** settings page.

User Profile

General
Backup Client Settings
Contact
User Group
Authentication
Mobile Backup

Backup Set

Settings

Report

Statistics

Effective Policy

Settings of the client backup agent for this user.

Backup Client

AhsayOBM User
 AhsayACB User

Add-on Modules

<input checked="" type="checkbox"/> Microsoft Exchange Server	<input checked="" type="checkbox"/> Microsoft SQL Server
<input checked="" type="checkbox"/> MySQL Database Server	<input checked="" type="checkbox"/> Oracle Database Server
<input checked="" type="checkbox"/> Lotus Domino	<input checked="" type="checkbox"/> Lotus Notes
<input checked="" type="checkbox"/> Windows System Backup	<input checked="" type="checkbox"/> Windows System State Backup
<input checked="" type="checkbox"/> VMware Guest VM ▾ 10	<input checked="" type="checkbox"/> Hyper-V Guest VM ▾ 10
<input checked="" type="checkbox"/> Microsoft Exchange Mailbox 10	<input checked="" type="checkbox"/> ShadowProtect System Backup
<input checked="" type="checkbox"/> NAS - QNAP	<input checked="" type="checkbox"/> NAS - Synology
<input checked="" type="checkbox"/> Mobile (max. 10)	<input checked="" type="checkbox"/> Continuous Data Protection
<input checked="" type="checkbox"/> Volume Shadow Copy	<input checked="" type="checkbox"/> In-File Delta
<input checked="" type="checkbox"/> OpenDirect / Granular Restore 10	<input checked="" type="checkbox"/> Office 365 Backup 10
<input checked="" type="checkbox"/> MariaDB Database Server	

Quota

Unlimited storage space for the destination not shown in the following table

+
-

<input type="checkbox"/>	Destination	Quota
<input checked="" type="checkbox"/>	AhsayCBS	50.0 Mbytes ▾

(If preempted mode is enabled in policy settings, the quota settings are disabled)

Client host limit

Maximum number of host [Used: 1]

Run Direct

Maximum number of VM [Used: 0]

There are several groups of settings under the **Backup Client Settings** tab, and they are described below.

Section	Description
Backup Client	<p>There are two (2) types of backup user accounts: AhsayOBM and AhsayACB.</p> <p>This was set when your account was created and cannot be modified by the user. If you need to change it, please contact your backup service provider.</p>
Add-on Modules	<p>The backup client comes with add-on modules.</p> <p>These add-on modules were set when the user account was created and cannot be modified by the user. If you need to change the add-on modules, please contact your backup service provider.</p>
Quota	<p>List all the predefined and standard destinations associated with the user account and the backup quota of predefined destination for the user account can be set.</p> <p>The quota of standard destination was set when your account was created and cannot be modified by the user. If you need to change it, please contact your backup service provider.</p>
Client Host Limit	<p>This is for your backup service provider to set the maximum number of host machine for your backup user account.</p> <p>This field cannot be changed by the user. If you need to update this field, please contact your backup service provider.</p>
Run Direct	<p>This allows the user to select the maximum number of VMs to be restored by running them directly from the backup files on the AhsayCBS.</p> <p>This field cannot be changed by the user. If you need to update this field, please contact your backup service provider.</p>

Add-on Modules

The following table shows all the add-on modules available under the **Backup Client Settings** tab. The backup of these add-on modules is supported by the AhsayOBM client. For some of the add-on modules, their backup are also supported by the AhsayACB client.

NOTE	
<ul style="list-style-type: none"> • The File and Cloud File Backup types are available by default for both AhsayACB and AhsayOBM. As a result, they do not need to be added and are not included in the Add-on Modules section of the Backup Client Settings tab. • There is no limit to number of Cloud file backup sets per AhsayOBM and AhsayACB account. 	

The following table shows the name of the add-on modules, what it is used for, whether it is available in AhsayOBM client or AhsayACB client, and reference materials you can refer to for more information.

Add-on Module	Reference	AhsayOBM	AhsayACB
Microsoft Exchange Server	Backup and restore of Microsoft Exchange Server. Refer to the following link for how to use Microsoft Exchange Database Server with AhsayOBM client: Ahsay Online Backup Manager v8 Microsoft Exchange Database Backup and Restore Guide	✓	X
Microsoft SQL Server	Backup and restore of Microsoft SQL Server. Refer to the following link for how to use Microsoft SQL Server with AhsayOBM client: Ahsay Online Backup Manager v8 Microsoft SQL Server Backup and Restore Guide	✓	X
MySQL Database Server	Backup and restore of MySQL Database Server. Refer to the following link for how to use MySQL Database for the Windows platform with AhsayOBM client: Ahsay Online Backup Manager v8 MySQL Database Backup and Restore for Windows Refer to the following link for how to use MySQL Database for the Linux platform with AhsayOBM client: Ahsay Online Backup Manager v8 MySQL Database Backup and Restore for Linux (CLI)	✓	X
Oracle Database Server	Backup and restore of Oracle Database Server. Refer to the following link for how to use Oracle Database for the Windows platform with AhsayOBM client: Ahsay Online Backup Manager v8 Oracle Database Backup and Restore for Windows Refer to the following link for how to use Oracle Database for the Linux platform with AhsayOBM client: Ahsay Online Backup Manager v8 Oracle	✓	X

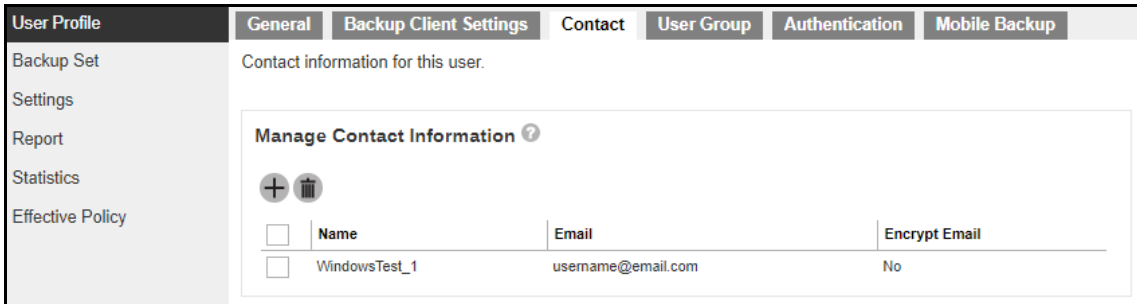
	Database Backup and Restore for Linux (CLI) Ahsay Online Backup Manager v8 Oracle Database Backup and Restore for Linux (GUI)		
Lotus Domino	Backup and restore of Lotus Domino.	✓	X
Lotus Notes	Backup and restore of Lotus Notes.	✓	✓
Windows System Backup	Backup and restore of Windows System Backup. Refer to the following link for how to use Windows System Backup with AhsayOBM and AhsayACB clients: Ahsay Online Backup Manager v8 Microsoft System Backup and Restore Guide	✓	✓
Windows System State Backup	Backup and restore of Windows System State Backup. Refer to the following link for how to use Windows System State Backup with AhsayOBM client: Ahsay Online Backup Manager v8 Microsoft System State Backup and Restore Guide	✓	X
VMware	Backup and restore of VMware guest virtual machines. Refer to the following link for how to use VMware VCenter/ESXi with AhsayOBM client: Ahsay Online Backup Manager v8 VMware vCenter/ESXi Backup and Restore Guide	✓	X
Hyper-V	Backup and restore of Hyper-V guest virtual machines. Refer to the following link for how to use Microsoft Hyper-V with AhsayOBM client: Ahsay Online Backup Manager v8 Microsoft Hyper-V Backup and Restore Guide	✓	X
Microsoft Exchange Mailbox	Backup and restore of Microsoft Exchange Mailbox. Refer to the following link for how to use Microsoft Exchange 2007/2010/2013 (MAPI) Mailbox with AhsayOBM client: Ahsay Online Backup Manager v8 Microsoft Exchange 2007/2010/2013 (MAPI) Mail-Level Backup & Restore Guide Refer to the following link for how to use Microsoft Exchange 2013/2016/2019 (EWS) Mailbox with AhsayOBM client: Ahsay Online Backup Manager v8 Microsoft Exchange 2013/2016/2019 (EWS) Mail Level Backup & Restore Guide	✓	X
Shadow Protect System Backup	Backup and restore of Shadow Protect System image (requires Shadow Protect).	✓	X

	<p>Refer to the following link for how to use the ShadowProtect System Backup with AhsayOBM client:</p> <p>Ahsay Online Backup Manager v7 StorageCraft ShadowProtect System Backup & Restore Guide</p>		
NAS - QNAP	<p>Backup and restore of file on QNAP NAS devices.</p> <p>Refer to the following link for how to use the QNAP NAS with AhsayOBM client:</p> <p>Ahsay Online Backup Manager v8 Quick Start Guide for QNAP NAS</p> <p>Refer to the following link for a list of QNAP hardware compatible with AhsayOBM:</p> <p>FAQ: Ahsay Hardware Compatibility List (HRL) for AhsayOBM on QNAP NAS (8018)</p>	✓	X
NAS - Synology	<p>Backup and restore of file on Synology NAS devices.</p> <p>Refer to the following link for how to use the Synology NAS with AhsayOBM client:</p> <p>Ahsay Online Backup Manager v8 Quick Start Guide for Synology NAS</p> <p>Refer to the following link for a list of Synology hardware compatible with AhsayOBM:</p> <p>FAQ: Ahsay Hardware Compatibility List (HRL) for AhsayOBM on Synology NAS (8017)</p>	✓	X
Mobile	<p>Backup and restore of Mobile data (iOS and Android).</p> <p>Refer to the following links for instructions on using the Ahsay Mobile for Android and iOS platforms.</p> <p>Ahsay Mobile User Guide for Android and iOS</p>	✓	✓
Continuous Data Protection	<p>A backup will be made whenever there is a change (between 1 min to 12-hour intervals) for Windows platform.</p>	✓	✓
Volume Shadow Copy	<p>Volume Shadow Copy to support open file backups on Windows platform.</p>	✓	✓
In-File Delta	<p>When enabled only the changes since the last backup job is backed up.</p>	✓	✓
OpenDirect / Granular Restore	<p>For OpenDirect and Granular Restore.</p> <p>Refer to the following link for instructions on using OpenDirect / Granular Restore.</p> <p>AhsayACB v8 Quick Start Guide for Windows</p> <p>Ahsay Online Backup Manager v8 Quick Start Guide for Windows</p> <p>Ahsay Online Backup Manager v8 Microsoft Hyper-V Backup and Restore Guide</p>	✓	X

	Ahsay Online Backup Manager v8 VMware vCenter/ESXi Backup and Restore Guide		
Office 365 Backup	<p>Backup and restore of mailboxes and files of Office 365 including the One Drive, Personal Site, Public Folders, and Site Collections.</p> <p>Refer to the following link for instructions on using Office 365.</p> <p>Ahsay Online Backup Manager v8 User Guide for Office365 Backup & Restore for Windows</p> <p>Ahsay Online Backup Manager User Guide for Office365 Backup & Restore for Mac</p> <p>AhsayACB v8 User Guide for Office 365 for Windows</p> <p>AhsayACB v8 User Guide for Office 365 for Mac</p> <p>AhsayCBS v8 User Guide - Office365 Run on Server (Agentless) Backup and Restore Guide</p>	✓	✓
MariaDB Database Server	<p>Backup and restore of MariaDB Database Server.</p> <p>Refer to the following link for how to use MariaDB Database for the Windows platform with AhsayOBM client:</p> <p>Ahsay Online Backup Manager v8 MariaDB Database Backup and Restore for Windows</p> <p>Refer to the following link for how to use MariaDB Database for the Linux platform with AhsayOBM client:</p> <p>Ahsay Online Backup Manager v8 MariaDB Database Backup and Restore for Linux (CLI)</p>	✓	X



2.3.3 Contact Tab

You can add your contact information here to receive backup or restore reports. You can also delete your contact information here. The following shows the **Contact** tab under the **User Profile** settings page.



The screenshot shows the 'User Profile' settings page with the 'Contact' tab selected. The page title is 'Contact information for this user.' Below this is a 'Manage Contact Information' section with a '+' icon to add and a trash icon to delete. A table lists contact information for the user 'WindowsTest_1'.



<input type="checkbox"/>	Name	Email	Encrypt Email
<input type="checkbox"/>	WindowsTest_1	username@email.com	No

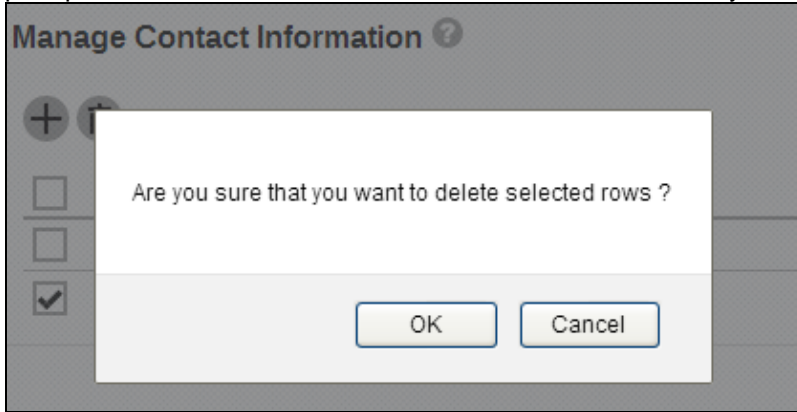
- To add your contact information, click  in the middle of the screen. Enter your **Name**, **Email**, **Address**, **Company**, **Website**, **Phone1**, **Phone2**, then click  at the bottom right corner of the screen. A new contact is added.



The screenshot shows the contact information form with the following fields:

- Name: User Name
- Email: username@email.com
- Encrypt Email
- Address: 1/F, Business Plaza, Central, HK
- Company: Company Name
- Website: (empty)
- Phone 1: (empty)
- Phone 2: (empty)

- To delete a contact information, check the box next to the contact information you want to delete, then click  in the middle of the screen. Click OK to delete the contact when prompted. The selected contact is deleted. Click  to save your changes.




2.3.4 User Group Tab

The following shows the **User Group** tab under the **User Profile** settings page. It shows the user group your user account belongs to. This is set when your account was created and cannot be modified.

User Profile	General	Backup Client Settings	Contact	User Group	Authentication	Mobile Backup				
Backup Set	Below is the list of user group this user was assigned to.									
Settings	Manage User Group									
Report	<table border="1"><thead><tr><th>Name</th><th>Owner</th></tr></thead><tbody><tr><td>All Users</td><td>--</td></tr></tbody></table>						Name	Owner	All Users	--
Name	Owner									
All Users	--									
Statistics										
Effective Policy										

NOTE

Please remember to click  after modification to save the changes. Otherwise the modification will be lost after quitting the setting page.

2.3.5 Authentication Tab

The Authentication tab allows the User to add additional layer of security to their backup user accounts. This tab allows resetting of password and enables the Two-Factor Authentication (2FA). Please contact your service provider for more details on this feature.

This view applies when two-factor authentication is enabled for the user account.

The screenshot shows the 'Authentication' tab in a user profile interface. It includes a 'Password' section with a hashed password and a 'Reset Password' link. Below that is a 'Two-Factor Authentication' section with a 'Registered Mobile Device(s)' table listing 'Galaxy A70' and 'WindowsTest_1'. At the bottom is a 'Last Successful Login' section showing login details for 12/04/2020.


If two-factor authentication is not enabled, this will be displayed instead.

The screenshot shows the 'Authentication' tab in a user profile interface. It includes a 'Password' section with a hashed password and a 'Reset Password' link. Below that is a 'Last Successful Login' section showing login details for 12/04/2020.

There are several groups of settings under the **Authentication** tab, and they are described below:

Section	Description
Password	There are two (2) elements in the Password section, which are the following: <ul style="list-style-type: none"> Password in hashed format defined by the service provider which cannot be changed. Reset Password allows the backup user to change the password.
Two-Factor Authentication	Allows the user to add mobile device(s) that will be used for two-factor authentication. It displays the device name, whether it has been verified or not and the last verified time and date.

	<p>This will only be visible if two-factor authentication is enabled for the user account.</p> <p>Please contact your backup service provider for details.</p>
Last Successful Login	<p>There are four (4) elements in the Last Successful Login section, which are the following:</p> <ul style="list-style-type: none"> • Time, this is the date and time the backup user last logged in, this changes every time the user logs in. • IP address used to log in, which cannot be changed. • Browser / App used to log in. If browser, the operating system, and browser used will be displayed. If app, either AhsayOBM or AhsayACB will be displayed. • Mobile Device, the name of the mobile device used to log in.

- To reset the password, click [Reset Password](#) . Enter the new password twice and click  to save.

Password


New Password

Confirm Password

- To add a mobile device for two-factor authentication, follow the instructions below:



1. Enable Two-Factor Authentication by sliding the switch to the right.

Two-Factor Authentication


2. Click the  button.

Two-Factor Authentication

Registered Mobile Device(s)

	Device Name	Verified	Last Verified Time
<input type="checkbox"/>			

3. Download mobile app by entering the URL provided in your device's browser or you can also scan the QR code by clicking [Or click here to scan QR code](#) link. Click  to

proceed.

Mobile App Download

Please download the Mobile App "Ahsay Mobile" by typing the following URL in your mobile devices browser:

[https://\[redacted\]/cbs/AppDownload.do?token=a114bf7c9f](https://[redacted]/cbs/AppDownload.do?token=a114bf7c9f)

[Or click here to scan QR code](#)

Once ready, hit [Next] button to continue the setup.

→ X

4. Select the country code and enter your phone number. Click

Send SMS Verification code

Two-Factor Authentication Feature Setup Wizard

For first time activation of Two-Factor Authentication feature, mobile device needs to pair with a verified phone number for account recovery.

Phone number


Philippines (+63)

*This phone number will be used for account security and recovery only. Please be reminded that standard SMS charge will be applied.

Send SMS Verification code

[Click here to download Mobile App "Ahsay Mobile"](#)

5. Enter the verification code and click **→**.

 Verification Code: QXCH134425

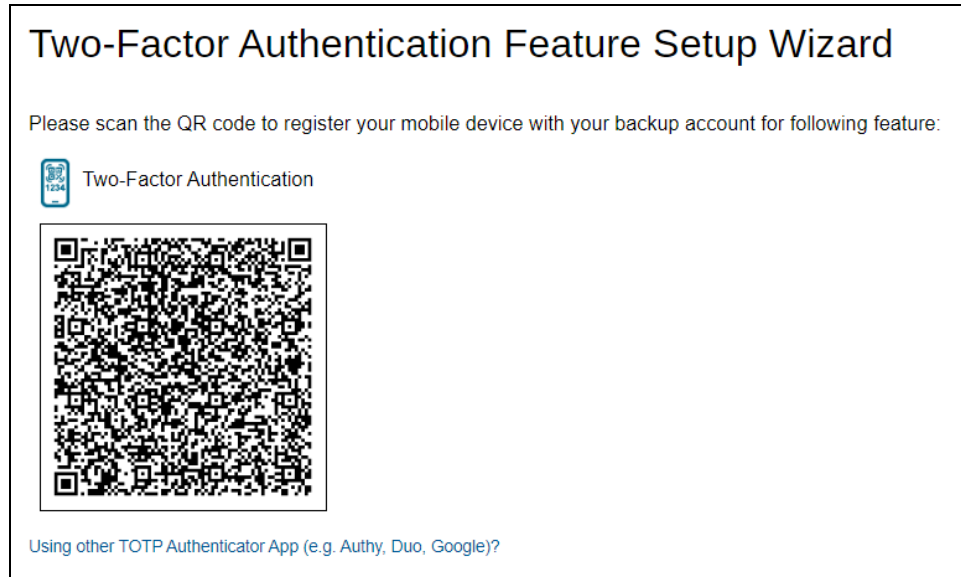
Verification code

QXCH - (00:04:39)

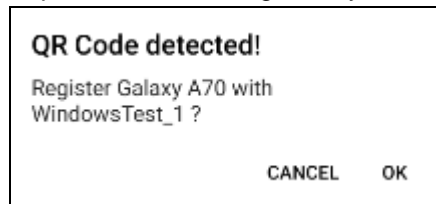
Resend SMS Verification code

6. Pair the device with the user account. There are two ways to do this:

By using Ahsay Mobile, scan the QR code.



Tap OK in the message that you will receive in Ahsay Mobile.



-OR-


By using a third-party TOTP Authenticator App, click [Using other TOTP Authenticator App \(e.g. Authy, Duo, Google\)?](#) link.


Either scan the QR code using the third-party authenticator app or enter the Secret Key in the third-party authenticator app. After doing so, the one-time password will be generated in the authenticator app. Enter a name and the one-time password code

generated in the third-party authenticator app here and click .

Two-Factor Authentication Feature Setup Wizard

Please scan the QR code or input Secret Key to register your mobile device with your backup account for following feature:

 Two-Factor Authentication




Secret Key: TTA5 JW5J OQB3 RAVM

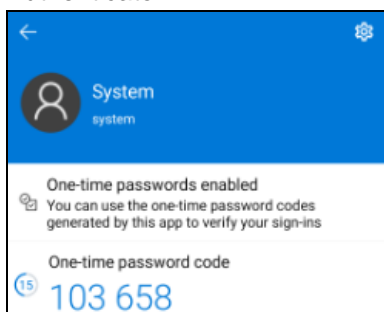
Enter a display name for user profile.

Enter the one-time password generated by Authenticator App.
 (00:00:15)

[Using Ahsay Mobile?](#)



This is a sample of the one-time password code generated using Microsoft Authenticator.




7. Click  to finish.

This is a sample of the message displayed when using Ahsay Mobile.

Two-Factor Authentication Feature Setup Wizard


You have registered "Galaxy A70" for the following feature:

 Two-Factor Authentication

This is a sample of the message displayed when using a third-party TOTP Authenticator App.

Two-Factor Authentication Feature Setup Wizard

You have registered "WindowsTest_1" for the following feature:

 Two-Factor Authentication

2.3.6 Mobile Backup Tab

The Mobile Backup tab allows the User to view the mobile device(s) that has been registered for mobile backup and the corresponding backup destination. To add a mobile device use AhsayOBM or AhsayACB.

For more information on how to do this please refer to the following guides:

[AhsayOBM Quick Start Guide](#), [AhsayACB Quick Start Guide](#) and [Ahsay Mobile User Guide](#)

User Profile	General	Backup Client Settings	Contact	User Group	Authentication	Mobile Backup						
Backup Set	Mobile Backup											
Settings	Registered Mobile Device(s)											
Report	<table border="1"><thead><tr><th>Device Name</th><th>Backup Destination</th></tr></thead><tbody><tr><td>iPhone 6</td><td>D:\backup\iPhone 6\1607069270717</td></tr><tr><td>Galaxy A70</td><td>D:\backup\Galaxy A70\1607069604823</td></tr></tbody></table>						Device Name	Backup Destination	iPhone 6	D:\backup\iPhone 6\1607069270717	Galaxy A70	D:\backup\Galaxy A70\1607069604823
Device Name	Backup Destination											
iPhone 6	D:\backup\iPhone 6\1607069270717											
Galaxy A70	D:\backup\Galaxy A70\1607069604823											
Statistics												
Effective Policy												

2.4 Settings

The **Settings** page allows the user to log the optional events, besides AhsayOBM/ AhsayACB logs, to the Windows event log.

NOTE

This feature is supported on AhsayOBM/AhsayACB clients installed on Windows platform only.

Windows event log

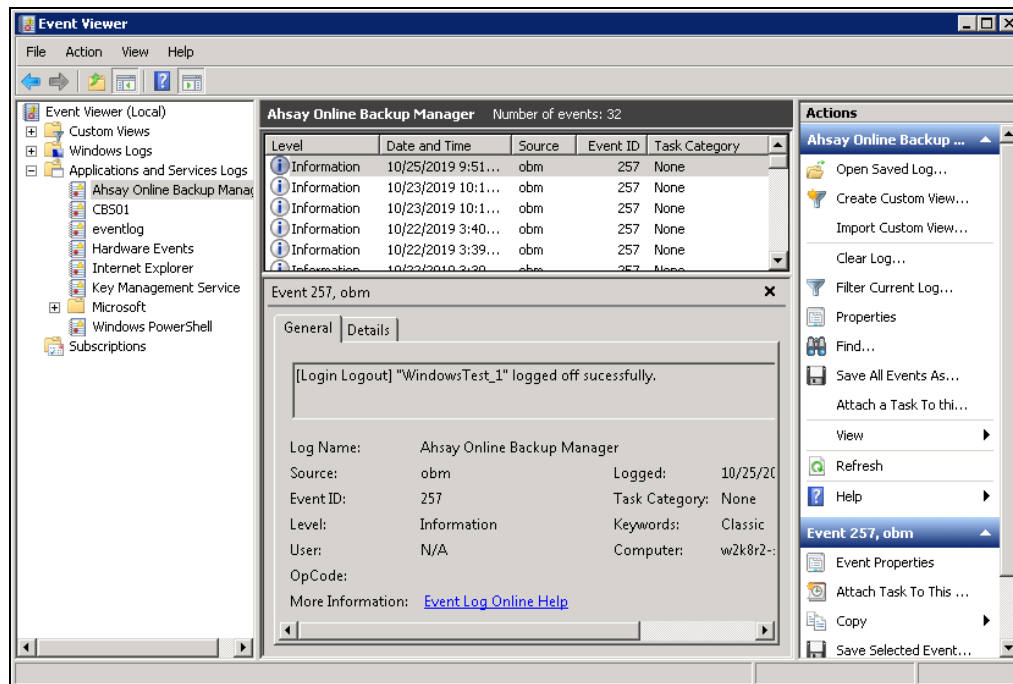
The following shows the options on the **Settings** page.

The screenshot displays the 'Windows Event Log' configuration page. On the left is a navigation menu with 'Settings' highlighted. The main area is titled 'Windows Event Log' and includes a progress indicator. Under 'Log type', the checkboxes for 'Error', 'Warning', and 'Info' are all checked. Under 'Log option', the following items are checked: Profile, Backup, Restore, Service (CDP & Scheduler), Software Update, Report, Utilities, and Login / Logout.

There are two groups of settings under the **Settings** tab, and they are described below.

Setting	Description
Log Type	There are three (3) log types available: Error , Warning , and Info . You can select any combinations of the 3 log types, and the messages will be logged in the Windows event log.
Log Option	Select the log option by which the particular action will be captured in the Windows event log. Currently there are eight (8) different log options that can be selected: Profile , Backup , Restore , Service (CDP & Scheduler) , Software Update , Report , Utilities , and Login/Logout .

The events are logged in the Windows event log and can be viewed from the Windows Event Viewer:

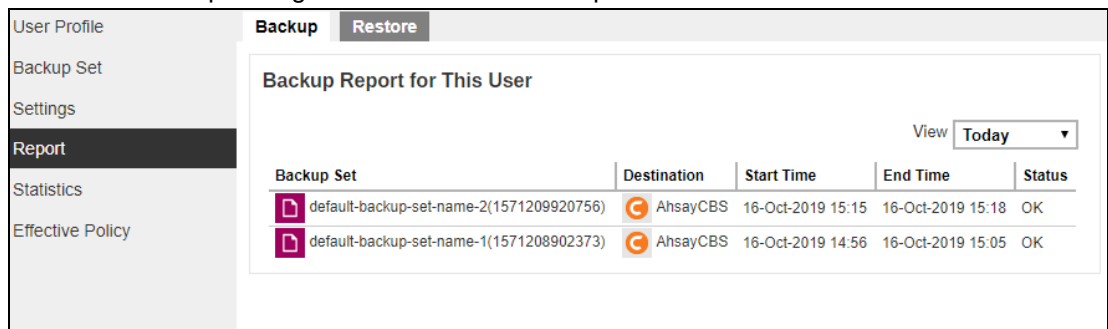


2.5 Report

The **Report** tab allows you to check the **Backup** and **Restore** report of both backup and restore jobs proceeded in agent-based (AhsayOBM/ AhsayACB/ AhsayOBR) and agentless (AhsayCBS User Web Console) type.



2.5.1 Backup Reports

1. A list of backup reports for this AhsayCBS user can be found on the **Backup** tab. Click on the desired report to get more details on the report.



2. Click the **Download report** button at the bottom to download the complete report in PDF format. The backup report will be available around 15 to 20 minutes after a backup job has finished.

Backup Report

Backup Set	 default-backup-set-name-2(1571209920756)
Destination	 AhsayCBS
Job	16-Oct-2019 15:15:48
Time	16-Oct-2019 15:15:49 - 16-Oct-2019 15:18:30
Status	OK
New Files*	10 [93.19k / 124.46k (25%)]
New Directories	4
New Links	0
Updated files*	0
Attributes Changed Files*	0
Deleted Files*	0
Deleted Directories	0
Deleted Links	0
Moved Files*	0

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

[Download report](#)

3. A full version of the backup report appears. You can view the detailed backup set settings on this report.

Full Backup report

Backup Job Summary

User	trialuser
Backup Set	default-backup-set-name-2 (1571209920756)
Destination	AhsayCBS (AhsayCBS)
Data Size	93k
Retention Size	0
Backup Quota	500M
Remaining Quota	499.61M
Backup Job	2019-10-16-15-15-48
Job Status	OK
Start - End	10/16/2019 15:15:48 - 10/16/2019 15:18:30
IP Address	10.16.10.14 (w2k8r2-std)
New Files *	10 (93.2k)
New Directories	4
New Links	0
Updated Files *	0 (0)
Attributes Changed Files *	0 (0)
Deleted Files *	0 (0)
Deleted Directories	0
Deleted Links	0
Moved Files *	0 (0)

* No. of files (size)

Backup Set Settings

Field	Value
Backup Source	[C:\Users\Administrator\Documents\AhsayACB_UserGuideforWindows_version7.docx][C:\Users\Administrator\Documents\AhsayCBS_version7_UserGuide.docx][C:\Users\Administrator\Documents\AlertMessageOne.png][C:\Users\Administrator\Documents\AlertMessageTwo.png][C:\Users\Administrator\Documents\BackupSet_2018.docx][C:\Users\Administrator\Documents\BackupSet_2019.docx][C:\Users\Administrator\Documents\File snapshot testing.txt][C:\Users\Administrator\Documents\File snapshot testing1.txt][C:\Users\Administrator\Documents\SpreadSheet_x_151.xlsx][C:\Users\Administrator\Documents\SpreadSheet_x_152.xlsx]
Filter	[Enabled: No]
Backup Schedule	[Computer Name:][Daily:][Name: Backup Schedule, Time: 20:0, Type: , Duration: -1, Retention Policy: Yes][Weekly:][Monthly:][Custom:]
Continuous Data Protection	[Enabled: No]
In-File Delta	[Enabled: Yes, Default Type: I, Block Size: -1, Minimum Size = 26214400, Maximum No. of Delta = 100, Delta Ratio = 50, Weekly: [], Monthly: [, Day:], Criteria: Friday, Day of selected months in yearly variations: First]
Retention Policy	[Type Simple, Period: 7, Unit: Day(s)]
Command Line Tool	
Reminder	[Computer Name: w2k8r2-std]
Bandwidth Control	[Enabled: No, Mode: Independent, Bandwidth Control:]
Others	[Remove temporary files after backup: Yes][Follow Link: Yes][Volume Shadow Copy: Yes][File Permissions: Yes][Compression Type: Fast (Compressed size larger than normal)]

Backup Logs

No.	Type	Timestamp	Log
1	start	2019/10/16 15:15:48	Start [AhsayOBM v8.3.0.30]
2	info	2019/10/16 15:15:51	Using Temporary Directory C:\Users\Administrator\temp\1571209920756\OBS81571210087052
3	info	2019/10/16 15:15:59	Start running pre-commands
4	info	2019/10/16 15:15:59	Finished running pre-commands
5	info	2019/10/16 15:16:07	Start creating Shadow Copy Set...
6	info	2019/10/16 15:16:21	Shadow Copy Set successfully created
7	info	2019/10/16 15:17:30	Start validating the presence and size of backup data in destination "AhsayCBS"...
8	info	2019/10/16 15:17:30	File: "1571209920756/blocks/2019-10-16-15-15-48/0/000000.bak", Size: 95,424, OK
9	info	2019/10/16 15:17:30	Finished validating the presence and size of backup data in destination "AhsayCBS"
10	info	2019/10/16 15:17:31	Deleting Shadow Copy snapshot for volume "\\?\Volume{5ba986a0-fd04-11e6-8291-806e6f6e6963}\\"
11	info	2019/10/16 15:17:31	Deleting Shadow Copy snapshot for volume "C:\\"
12	info	2019/10/16 15:17:42	Start running post-commands
13	info	2019/10/16 15:17:42	Finished running post-commands

Backup Files

No.	Type	Dirs/Files	Size	Last Modified
1	new	C:\	12k / 12k (0%)	10/15/2019 10:23
2	new	C:\Users	4k / 4k (0%)	02/27/2017 23:53
3	new	C:\Users\Administrator	8k / 8k (0%)	09/27/2019 07:56
4	new	C:\Users\Administrator\Documents	16k / 16k (0%)	10/15/2019 10:10
5	new	C:\Users\Administrator\Documents\AhsayACB_UserGuideforWindows_version7.docx	12k / 14k (17%)	07/10/2018 17:24
6	new	C:\Users\Administrator\Documents\AhsayCBS_version7_UserGuide.docx	12k / 14k (17%)	07/10/2018 17:24
7	new	C:\Users\Administrator\Documents\AlertMessageOne.png	2k / 2k (0%)	02/28/2019 12:10
8	new	C:\Users\Administrator\Documents\AlertMessageTwo.png	2k / 2k (0%)	02/28/2019 12:10
9	new	C:\Users\Administrator\Documents\BackupSet_2018.docx	12k / 14k (17%)	07/10/2018 17:24
10	new	C:\Users\Administrator\Documents\BackupSet_2019.docx	12k / 14k (17%)	07/10/2018 17:24
11	new	C:\Users\Administrator\Documents\File snapshot testing.txt	256 / 7k (96%)	12/17/2018 14:27
12	new	C:\Users\Administrator\Documents\File snapshot testing1.txt	256 / 7k (96%)	01/15/2019 10:12
13	new	C:\Users\Administrator\Documents\SpreadSheet_x_152.xlsx	19k / 23k (15%)	03/18/2019 15:11
14	new	C:\Users\Administrator\Documents\SpreadSheet_x_151.xlsx	19k / 23k (15%)	03/18/2019 15:11

2.5.2 Restore Reports

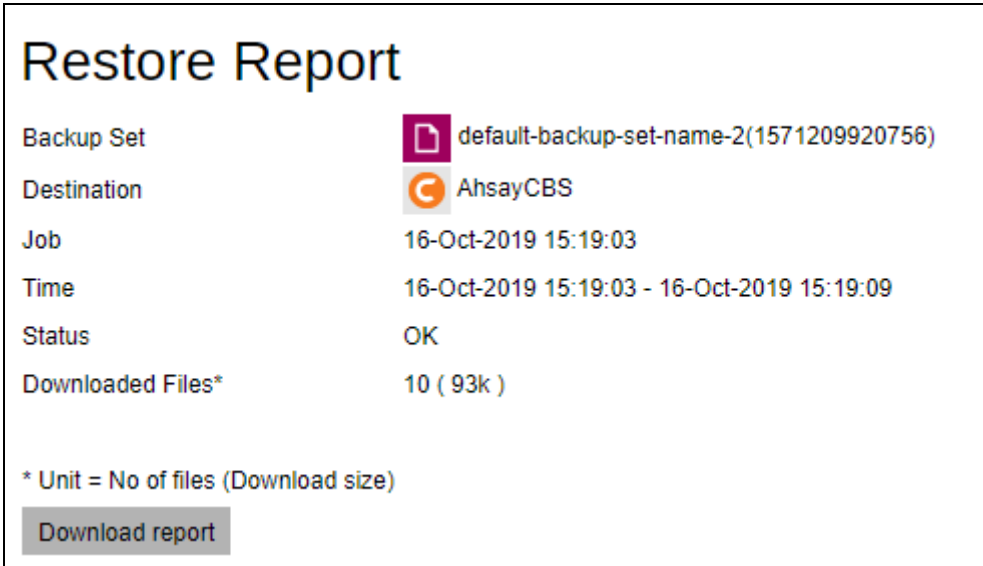
1. A list of restore reports for this AhsayCBS user can be found on the **Restore** tab. Click on the desired report to get more details on the report.





The screenshot shows the AhsayCBS interface with the 'Restore' tab selected. On the left, there is a navigation menu with options: User Profile, Backup Set, Settings, Report (highlighted), Statistics, and Effective Policy. The main content area is titled 'Restore Report for This User' and includes a 'View' dropdown menu set to 'Today'. Below this is a table with the following data:

Backup Set	Destination	Job	Status
 default-backup-set-name-2(1571209920756)	 AhsayCBS	16-Oct-2019 15:19:03	OK
 default-backup-set-name-1(1571208902373)	 AhsayCBS	16-Oct-2019 15:07:40	OK

2. Click the **Download report** button at the bottom to download the complete report in PDF format. The restore report will be available around 15 to 20 minutes after a restore job has finished.



The screenshot shows a detailed 'Restore Report' with the following information:

- Backup Set:**  default-backup-set-name-2(1571209920756)
- Destination:**  AhsayCBS
- Job:** 16-Oct-2019 15:19:03
- Time:** 16-Oct-2019 15:19:03 - 16-Oct-2019 15:19:09
- Status:** OK
- Downloaded Files*:** 10 (93k)

* Unit = No of files (Download size)

[Download report](#)

3. A full version of the restore report appears. You can view the detailed backup set settings on this report.

i. Normal Restore

AhsayCBS

Full Restore Report

Restore Job Summary

User	Backup Set	Restore Job	Restore Destination	Job Status	IP Address	Restored Files *
trialuser	default-backup-set-name-2 (1571209920756)	2019-10-16-15-19-03	AhsayCBS	OK	10.16.10.14	10 (93.2k)

* No. of files (size)

Restore Logs

No.	Type	Timestamp	Log
1	start	10/16/2019 15:19:03	Start [AhsayOBM v8.3.0.30]
2	info	10/16/2019 15:19:03	Initializing decrypt action...
3	info	10/16/2019 15:19:03	Initializing decrypt action... Completed
4	info	10/16/2019 15:19:04	Creating new directory... "C:\Restored\C_"
5	info	10/16/2019 15:19:04	Creating new directory... "C:\Restored\C_\Users"
6	info	10/16/2019 15:19:04	Creating new directory... "C:\Restored\C_\Users\Administrator"
7	info	10/16/2019 15:19:04	Creating new directory... "C:\Restored\C_\Users\Administrator\Documents"

Restore Files

No.	File Name	Size	Last Modified	Downloaded Time	Time taken (min:sec)
1	C:\Restored\C_\Users\Administrator\Documents\AhsayCBS_version7_UserGuide.docx	12k	07/10/2018 17:24	10/16/2019 15:19	0:0
2	C:\Restored\C_\Users\Administrator\Documents\AhsayACB_UserGuideforWindows_version7.docx	12k	07/10/2018 17:24	10/16/2019 15:19	0:0
3	C:\Restored\C_\Users\Administrator\Documents\AlertMessageOne.png	2k	02/28/2019 12:10	10/16/2019 15:19	0:0
4	C:\Restored\C_\Users\Administrator\Documents\AlertMessageTwo.png	2k	02/28/2019 12:10	10/16/2019 15:19	0:0
5	C:\Restored\C_\Users\Administrator\Documents\BackupSet_2018.docx	12k	07/10/2018 17:24	10/16/2019 15:19	0:0
6	C:\Restored\C_\Users\Administrator\Documents\BackupSet_2019.docx	12k	07/10/2018 17:24	10/16/2019 15:19	0:1
7	C:\Restored\C_\Users\Administrator\Documents\File snapshot testing1.txt	254	12/17/2018 14:27	10/16/2019 15:19	0:1
8	C:\Restored\C_\Users\Administrator\Documents\File snapshot testing1.txt	254	01/15/2019 10:12	10/16/2019 15:19	0:0
9	C:\Restored\C_\Users\Administrator\Documents\SpreadSheet_x_151.xlsx	19k	03/18/2019 15:11	10/16/2019 15:19	0:0
10	C:\Restored\C_\Users\Administrator\Documents\SpreadSheet_x_152.xlsx	19k	03/18/2019 15:11	10/16/2019 15:19	0:0

ii. Run Direct Restore without Auto Migration.

AhsayCBS

Full Restore Report

Restore Job Summary

User	Backup Set	Restore Job	Restore Destination	Job Status	IP Address	Restored Files *
gr1	VMware ESXi v5.1 (GR-R D-Local-CBS) (1492416 83007)	2017-06-09-09-30-39	AhsayCBS	OK	10.120.10.12	0 (0)

* No. of files (size)

Restore Logs

No.	Type	Timestamp	Log
1	start	06/09/2017 09:30:40	Start
2	info	06/09/2017 09:30:40	"10.1.0.0" already exists.
3	info	06/09/2017 09:30:44	Preparing for Run Direct...
4	info	06/09/2017 09:30:55	Mount datastore "cbs-RunDirect (10.120.10.12:cbs-RunDirect)"...
5	info	06/09/2017 09:30:55	Adding virtual machine "Windows 2003 Ent [10.1.0.208]" to the inventory...
6	info	06/09/2017 09:30:56	Taking snapshot "_snapshot_for_publish_" of virtual machine "Windows 2003 Ent [10.1.0.208]"...
7	info	06/09/2017 09:31:04	Please do not Edit, Remove or Revert any existing snapshot before migration is completed.
8	info	06/09/2017 09:31:04	Restore Completed Successfully

Restore Files

No.	File Name	Size	Last Modified	Downloaded Time	Time taken (min:sec)
-----	-----------	------	---------------	-----------------	----------------------

iii. Run Direct with Auto Migration



Full Restore Report

Restore Job Summary

User	Backup Set	Restore Job	Restore Destination	Job Status	IP Address	Restored Files *
gr1	VMware ESXi v5.1 (GR-R D-Local-CBS) (14942416 83007)	2017-08-14-15-36-39	AhsayCBS	OK	10.16.10.92	0/00

* No. of files (size)

Restore Logs

No.	Type	Timestamp	Log
1	start	08/14/2017 15:36:40	Start [Windows Server 2012 (Work12-w12x), AhsayOBM v7.13.0.2]
2	info	08/14/2017 15:36:40	Initializing decrypt action...
3	info	08/14/2017 15:36:40	Initializing decrypt action... Completed
4	info	08/14/2017 15:36:41	VMware ESXi 5.1.0 build-1157734010.1.0.6-44355H.22
5	info	08/14/2017 15:37:02	Preparing for Run Direct...
6	info	08/14/2017 15:37:04	Mount datastore "cbs-RunDirect (10.120.10.12cbsRunDirect)"...
7	info	08/14/2017 15:37:04	Adding virtual machine "New Virtual Machine" to the inventory...
8	info	08/14/2017 15:37:11	Taking snapshot "_snapshot_for_publish_" of virtual machine "New Virtual Machine"...
9	info	08/14/2017 15:37:20	Powering on virtual machine "New Virtual Machine"...
10	info	08/14/2017 15:37:25	Please do not Edit, Remove or Revert any existing snapshot before migration is completed.
11	info	08/14/2017 15:37:28	Start manual migration...
12	info	08/14/2017 15:37:29	Loading information...
13	info	08/14/2017 15:37:33	Taking snapshot "_snapshot_for_migrate_" of virtual machine "New Virtual Machine"...
14	info	08/14/2017 15:37:41	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-000001-delta.vmdk
15	info	08/14/2017 15:37:48	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-000001.vmdk
16	info	08/14/2017 15:38:05	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-Flat.vmdk
17	info	08/14/2017 16:06:49	Migrating _datastore3_PD0405 New Virtual Machine/Win2003.vmdk
18	info	08/14/2017 16:06:54	Suspending virtual machine "New Virtual Machine"...
19	info	08/14/2017 16:07:05	Loading information...
20	info	08/14/2017 16:07:10	Removing virtual machine "New Virtual Machine" from the inventory...
21	info	08/14/2017 16:07:10	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-nvram
22	info	08/14/2017 16:07:11	Migrating _datastore3_PD0405 New Virtual Machine/Win2003.vmadi
23	info	08/14/2017 16:07:17	Migrating _datastore3_PD0405 New Virtual Machine/Win2003.vmx
24	info	08/14/2017 16:07:18	Migrating _datastore3_PD0405 New Virtual Machine/Win2003.vmxef
25	info	08/14/2017 16:07:19	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-9546e87f.vmx
26	info	08/14/2017 16:07:45	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-000002-delta.vmdk
27	info	08/14/2017 16:07:50	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-000002.vmdk
28	info	08/14/2017 16:07:57	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-Snapshot1.vman
29	info	08/14/2017 16:07:57	Migrating _datastore3_PD0405 New Virtual Machine/Win2003-Snapshot2.vman
30	info	08/14/2017 16:07:58	Adding virtual machine "New Virtual Machine" to the inventory...
31	info	08/14/2017 16:07:59	Powering on virtual machine "New Virtual Machine"...
32	info	08/14/2017 16:08:04	Removing snapshot "_snapshot_for_migrate_" from virtual machine "New Virtual Machine"...
33	info	08/14/2017 16:08:16	Removing snapshot "_snapshot_for_publish_" from virtual machine "New Virtual Machine"...
34	info	08/14/2017 16:08:17	Unmount datastore "cbs-RunDirect"...

Restore Files

No.	File Name	Size	Last Modified	Downloaded Time	Time taken (min:sec)

NOTE

OpenDirect restore of file backup sets or granular restore of files from VMware and Hyper-V backup sets performed using Windows File Explorer will not generate any restore reports on AhsayCBS. Restore reports are only available when the restore is performed directly through AhsayOBM /AhsayACB/ AhsayOBR or on agentless Office 365 and Cloud File backups.

2.6 Statistics

You can generate a graph of storage statistics for the user by modifying a few factors such as the backup destination, backup set and the period of the backup.

The statistics shows the storage capacity of different backup sets on different dates. Only restorable files in the data and retention area for each backup set are included in the calculation of storage statistics.

Storage statistics of a backup set are updated every time the following functions are run:

- Backup job
- Data Integrity Check (DIC)
- Periodic Data Integrity Check (PDIC)
- Space Freeing Up
- Delete Backup Data

Usage

The following options are configurable for generating statistics in your desirable view.

- **Select a destination** – select the backup destination of your choice
- **Select a backup set** – you can choose a specific backup set or all backup sets
- **Period** – select the period of time during which backups were performed
- **View** – you can choose a view, graph or table



The screenshot shows a web interface titled "Usage" with a "Summary" tab. The main heading is "Statistics for This User". On the right side, there is a "View" dropdown menu currently set to "Table". Below the heading, there are three dropdown menus: "Select a destination" with "AhsayCBS" selected, "Select a backup set" with "All backup sets" selected, and "Period" with "This Week" selected. At the bottom left of the form area is a "Go" button.

Graph view

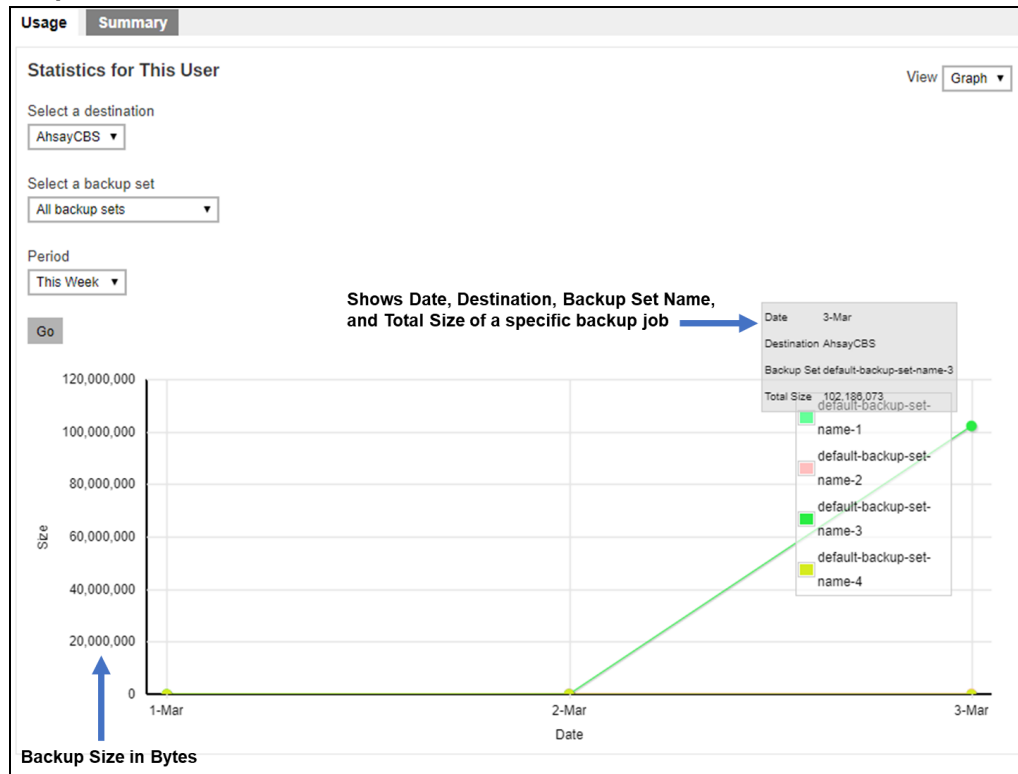


Table view

Usage Summary

Statistics for This User View Table ▾

Select a destination
AhsayCBS ▾

Select a backup set
All backup sets ▾

Period
This Week ▾

Go

Date	Backup Set	Total Size
2020-03-01	Total	0
	default-backup-set-name-1(1583543230248)	0
	default-backup-set-name-2(1583121254009)	0
	default-backup-set-name-3(1583199702515)	0
	default-backup-set-name-4(1583207766110)	0
2020-03-02	Total	304k
	default-backup-set-name-1(1583543230248)	0
	default-backup-set-name-2(1583121254009)	304k
	default-backup-set-name-3(1583199702515)	0
	default-backup-set-name-4(1583207766110)	0
2020-03-03	Total	100.09M
	default-backup-set-name-1(1583543230248)	0
	default-backup-set-name-2(1583121254009)	304k
	default-backup-set-name-3(1583199702515)	99.79M
	default-backup-set-name-4(1583207766110)	0

Summary

User Profile		Usage	Summary		
Backup Set		Summary for This User * Unit: Compressed Size / Uncompressed Size [Ratio] [Total No. of Files] ** Unit: Compressed Size [Total No. of Files] (^) Backup Set completely migrated from v6			
Settings					
Report					
Statistics					
Effective Policy					
Backup Set	Destination	Data Area*	Retention Area*	Total Upload**	Total Restore**
T1(1501661450981)	AhsayCBS	0 / 0 [0%] [0]	0 / 0 [0%] [0]	0 [0]	0 [0]
T1(1501661450981)	GoogleDrive-001	0 / 0 [0%] [0]	0 / 0 [0%] [0]	0 [0]	0 [0]
T2(1501827515142)	AhsayCBS	315.46M / 4.37G [93%] [4094]	0 / 0 [0%] [0]	315.46M [4097]	629.03M [8186]
T3(1501833159874)	GoogleDrive-001	0 / 0 [0%] [0]	0 / 0 [0%] [0]	0 [18]	0 [0]

There are 4 columns showing the following information of each backup set.

Data Area

Data Area*
0 / 0 [0%] [0]
0 / 0 [0%] [0]
315.46M / 4.37G [93%] [4094]
0 / 0 [0%] [0]

Format:

[Compressed Size] / [Uncompressed Size] [Compression Ratio in %] [Number of files]

Example: 315.46M / 4.37G [93%] [4094]

The data interpreted as the backup set has 4094 files in the data area; the files compressed, and uncompressed sizes are 315.64M and 4.37G respectively; the compression ratio is 93%.

Retention Area

Retention Area**
0 / 0 [0%] [0]
4.12M / 4.12M [0%] [12]
0 / 0 [0%] [0]
0 / 0 [0%] [0]
0 / 0 [0%] [0]
34.12M / 234.07M [86%] [239]

Format:

[Compressed Size] / [Uncompressed Size] [Compression Ratio in %] [Total number of files]

Example: 34.12M / 234.07M [86%] [239]

The data interpreted as the backup set has 239 files in the retention area; the files compressed, and uncompressed sizes are 34.12M and 234.07M respectively; the compression ratio is 86%.

Total Upload

Total Upload*
0 [0]
1.19G [183]
4M [20]
181.02M [706]
21.06M [78]
789.86M [683]

Format:

[Compressed Size] [Total number of files]

Example: 4M [20]

There is a total of 20 files sized of 4M uploaded for this backup set.

The Total Upload is computed by adding up all the New Files, New Directories, New Links, Uploaded Files, Attributed Changed Files, Deleted Files, Deleted Directories, Deleted Links and Moved Files.

Total Restore

Total Restore*
0 [0]
612.2M [92]
0 [0]
0 [0]
25.12M [36]
4.48G [1044]

Format:

[Compressed Size] [Total number of files]

Example: 612.2M [92]

There is a total of 92 files sized of 612.2M restored from this backup set.

2.7 Effective Policy

NOTE

Effective Policy tab may be hidden depending on the configuration your backup service provider made.

There are six (6) tabs containing different groups of policy, and they are described below.

User Settings Tab

You can see the effective policy on user settings for this user on the User Settings tab.

User Profile	User Settings	Backup Set Settings	GUI Settings	Default Values	Preempted Values	Preempted Backup Sets																																
Backup Set	User Settings Related Policies																																					
Settings	<table border="1"> <thead> <tr> <th>Detail</th> <th>Value</th> <th>User Group</th> <th>Policy</th> </tr> </thead> <tbody> <tr> <td>Quota > Quota limits calculation method</td> <td>Compressed Size</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>User Quota > Enable</td> <td>Yes, User Quota Settings: Enabled = true, Mode = Default</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>User Quota > Value</td> <td>Destination Quota Settings: DestinationKey=OBS, Enable=true, Quota=52428800, DestinationName=AhsayCBS</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Invalid login attempt limit (password only) > Maximum number of invalid login attempts allowed within specified period</td> <td>3 times within 5 mins</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Invalid login attempt limit (password only) > Blocking period for IP address and user that exceed the maximum allowed invalid login attempts</td> <td>10 Minutes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Email Reports > Backup Report</td> <td>Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Email Reports > Restore Report</td> <td>Yes</td> <td>All Users</td> <td>Default settings</td> </tr> </tbody> </table>						Detail	Value	User Group	Policy	Quota > Quota limits calculation method	Compressed Size	All Users	Default settings	User Quota > Enable	Yes, User Quota Settings: Enabled = true, Mode = Default	All Users	Default settings	User Quota > Value	Destination Quota Settings: DestinationKey=OBS, Enable=true, Quota=52428800, DestinationName=AhsayCBS	All Users	Default settings	Invalid login attempt limit (password only) > Maximum number of invalid login attempts allowed within specified period	3 times within 5 mins	All Users	Default settings	Invalid login attempt limit (password only) > Blocking period for IP address and user that exceed the maximum allowed invalid login attempts	10 Minutes	All Users	Default settings	Email Reports > Backup Report	Yes	All Users	Default settings	Email Reports > Restore Report	Yes	All Users	Default settings
Detail	Value	User Group	Policy																																			
Quota > Quota limits calculation method	Compressed Size	All Users	Default settings																																			
User Quota > Enable	Yes, User Quota Settings: Enabled = true, Mode = Default	All Users	Default settings																																			
User Quota > Value	Destination Quota Settings: DestinationKey=OBS, Enable=true, Quota=52428800, DestinationName=AhsayCBS	All Users	Default settings																																			
Invalid login attempt limit (password only) > Maximum number of invalid login attempts allowed within specified period	3 times within 5 mins	All Users	Default settings																																			
Invalid login attempt limit (password only) > Blocking period for IP address and user that exceed the maximum allowed invalid login attempts	10 Minutes	All Users	Default settings																																			
Email Reports > Backup Report	Yes	All Users	Default settings																																			
Email Reports > Restore Report	Yes	All Users	Default settings																																			
Report																																						
Statistics																																						
Effective Policy																																						

Backup Set Settings Tab

You can see the effective policy on backup set settings for this user on the Backup Set Settings tab.

User Profile	User Settings	Backup Set Settings	GUI Settings	Default Values	Preempted Values	Preempted Backup Sets																																				
Backup Set	Backup Set Settings Related Policies																																									
Settings	<table border="1"> <thead> <tr> <th>Detail</th> <th>Value</th> <th>User Group</th> <th>Policy</th> </tr> </thead> <tbody> <tr> <td>Destinations Visible to Users > Predefined Destination</td> <td>Wasabi-1 (Wasabi)</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>Local / Mapped Drive / Network Drive / Removable Drive, Enable=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>AhsayCBS, Enable=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>Google Cloud Storage, Enable=No</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>Amazon S3, Enable=No</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>SFTP, Enable=No</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>FTP, Enable=No</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Destinations Visible to Users > Standard Destination</td> <td>CTYun, Enable=No</td> <td>All Users</td> <td>Default settings</td> </tr> </tbody> </table>						Detail	Value	User Group	Policy	Destinations Visible to Users > Predefined Destination	Wasabi-1 (Wasabi)	All Users	Default settings	Destinations Visible to Users > Standard Destination	Local / Mapped Drive / Network Drive / Removable Drive, Enable=Yes	All Users	Default settings	Destinations Visible to Users > Standard Destination	AhsayCBS, Enable=Yes	All Users	Default settings	Destinations Visible to Users > Standard Destination	Google Cloud Storage, Enable=No	All Users	Default settings	Destinations Visible to Users > Standard Destination	Amazon S3, Enable=No	All Users	Default settings	Destinations Visible to Users > Standard Destination	SFTP, Enable=No	All Users	Default settings	Destinations Visible to Users > Standard Destination	FTP, Enable=No	All Users	Default settings	Destinations Visible to Users > Standard Destination	CTYun, Enable=No	All Users	Default settings
Detail	Value	User Group	Policy																																							
Destinations Visible to Users > Predefined Destination	Wasabi-1 (Wasabi)	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	Local / Mapped Drive / Network Drive / Removable Drive, Enable=Yes	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	AhsayCBS, Enable=Yes	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	Google Cloud Storage, Enable=No	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	Amazon S3, Enable=No	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	SFTP, Enable=No	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	FTP, Enable=No	All Users	Default settings																																							
Destinations Visible to Users > Standard Destination	CTYun, Enable=No	All Users	Default settings																																							
Report																																										
Statistics																																										
Effective Policy																																										

GUI Settings Tab

You can see the effective policy on AhsayOBM or AhsayACB GUI settings for this user on the GUI Settings tab.

User Profile	User Settings	Backup Set Settings	GUI Settings	Default Values	Preempted Values	Preempted Backup Sets																																				
Backup Set	GUI Settings Related Policies																																									
Settings	<table border="1"> <thead> <tr> <th>Detail</th> <th>Value</th> <th>User Group</th> <th>Policy</th> </tr> </thead> <tbody> <tr> <td>Backup Sets > Add and Remove Backup Set (ONLY applicable to v7.3 - v7.9 client agent)</td> <td>View=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Tab</td> <td>View=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Settings - Name</td> <td>View=Yes, Edit=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Settings - IBM Domino</td> <td>View=Yes, Edit=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Settings - IBM Notes</td> <td>View=Yes, Edit=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Settings - MS Exchange Server</td> <td>View=Yes, Edit=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Settings - MS HyperV</td> <td>View=Yes, Edit=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> <tr> <td>Backup Sets > General Settings - MSSQL Server</td> <td>View=Yes, Edit=Yes</td> <td>All Users</td> <td>Default settings</td> </tr> </tbody> </table>						Detail	Value	User Group	Policy	Backup Sets > Add and Remove Backup Set (ONLY applicable to v7.3 - v7.9 client agent)	View=Yes	All Users	Default settings	Backup Sets > General Tab	View=Yes	All Users	Default settings	Backup Sets > General Settings - Name	View=Yes, Edit=Yes	All Users	Default settings	Backup Sets > General Settings - IBM Domino	View=Yes, Edit=Yes	All Users	Default settings	Backup Sets > General Settings - IBM Notes	View=Yes, Edit=Yes	All Users	Default settings	Backup Sets > General Settings - MS Exchange Server	View=Yes, Edit=Yes	All Users	Default settings	Backup Sets > General Settings - MS HyperV	View=Yes, Edit=Yes	All Users	Default settings	Backup Sets > General Settings - MSSQL Server	View=Yes, Edit=Yes	All Users	Default settings
Detail	Value	User Group	Policy																																							
Backup Sets > Add and Remove Backup Set (ONLY applicable to v7.3 - v7.9 client agent)	View=Yes	All Users	Default settings																																							
Backup Sets > General Tab	View=Yes	All Users	Default settings																																							
Backup Sets > General Settings - Name	View=Yes, Edit=Yes	All Users	Default settings																																							
Backup Sets > General Settings - IBM Domino	View=Yes, Edit=Yes	All Users	Default settings																																							
Backup Sets > General Settings - IBM Notes	View=Yes, Edit=Yes	All Users	Default settings																																							
Backup Sets > General Settings - MS Exchange Server	View=Yes, Edit=Yes	All Users	Default settings																																							
Backup Sets > General Settings - MS HyperV	View=Yes, Edit=Yes	All Users	Default settings																																							
Backup Sets > General Settings - MSSQL Server	View=Yes, Edit=Yes	All Users	Default settings																																							
Report																																										
Statistics																																										
Effective Policy																																										
						X ?																																				

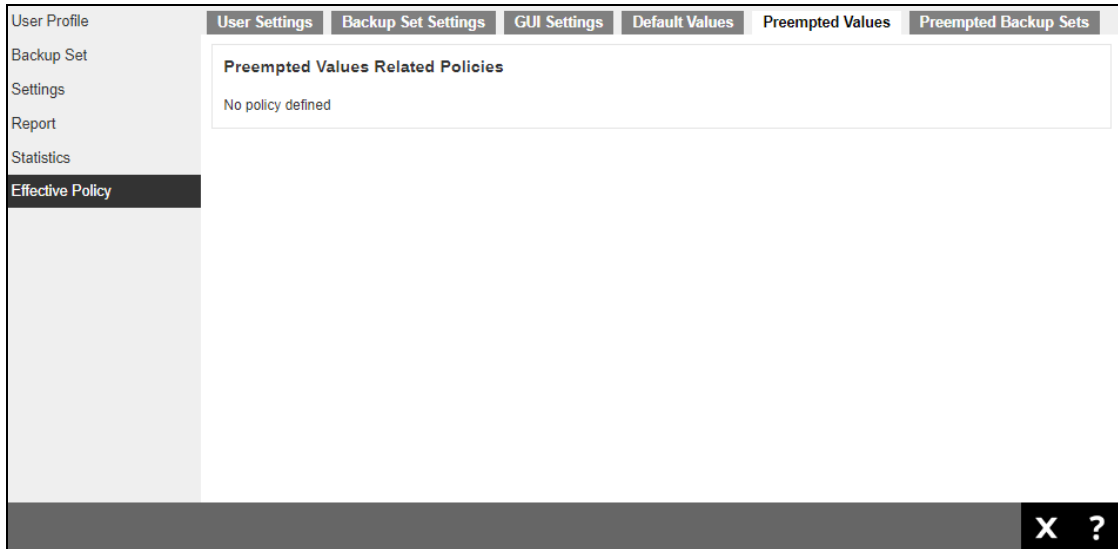
Default Values Tab

You can see the effective policy on default values for this user on the Default Values tab.

User Profile	User Settings	Backup Set Settings	GUI Settings	Default Values	Preempted Values	Preempted Backup Sets																											
Backup Set	Default Values Related Policies																																
Settings	<table border="1"> <thead> <tr> <th>Detail</th> <th>Value</th> <th>User Group</th> </tr> </thead> <tbody> <tr> <td>General > Name</td> <td>Applied Module=File Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=Cloud File Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=IBM Lotus Domino Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=IBM Lotus Notes Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=MS Exchange Server Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=MS Exchange Mail Level Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=MS SQL Server Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> <tr> <td>General > Name</td> <td>Applied Module=MS Hyper-V Backup, Name=default-backup-set-name</td> <td>All Users</td> </tr> </tbody> </table>						Detail	Value	User Group	General > Name	Applied Module=File Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=Cloud File Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=IBM Lotus Domino Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=IBM Lotus Notes Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=MS Exchange Server Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=MS Exchange Mail Level Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=MS SQL Server Backup, Name=default-backup-set-name	All Users	General > Name	Applied Module=MS Hyper-V Backup, Name=default-backup-set-name	All Users
Detail	Value	User Group																															
General > Name	Applied Module=File Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=Cloud File Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=IBM Lotus Domino Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=IBM Lotus Notes Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=MS Exchange Server Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=MS Exchange Mail Level Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=MS SQL Server Backup, Name=default-backup-set-name	All Users																															
General > Name	Applied Module=MS Hyper-V Backup, Name=default-backup-set-name	All Users																															
Report																																	
Statistics																																	
Effective Policy																																	
						X ?																											

Preempted Values Tab

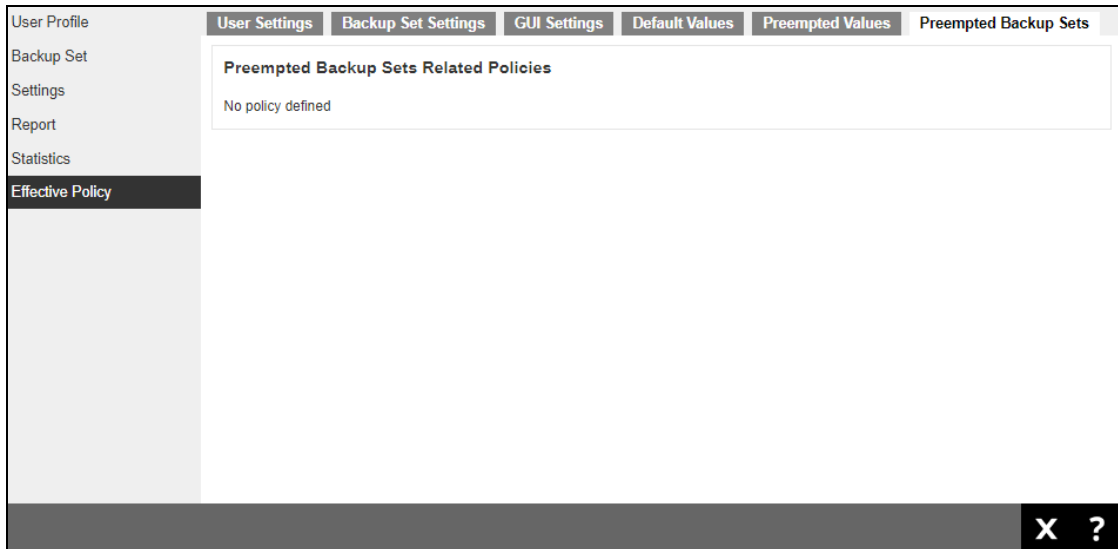
You can see the effective policy on preempted values for this user on the Preempted Values tab.



The screenshot shows a user settings interface with a sidebar on the left containing 'User Profile', 'Backup Set', 'Settings', 'Report', 'Statistics', and 'Effective Policy'. The top navigation bar includes 'User Settings', 'Backup Set Settings', 'GUI Settings', 'Default Values', 'Preempted Values', and 'Preempted Backup Sets'. The 'Preempted Values' tab is active, displaying a box titled 'Preempted Values Related Policies' with the text 'No policy defined'. A dark footer bar at the bottom right contains an 'X' and a '?' icon.

Preempted Backup Sets Tab

You can see the effective policy on preempted backup sets for this user on the Preempted Backup Sets tab.

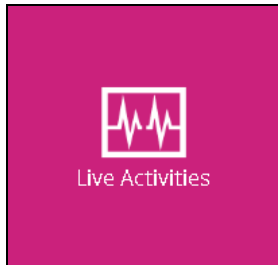


The screenshot shows a user settings interface with a sidebar on the left containing 'User Profile', 'Backup Set', 'Settings', 'Report', 'Statistics', and 'Effective Policy'. The top navigation bar includes 'User Settings', 'Backup Set Settings', 'GUI Settings', 'Default Values', 'Preempted Values', and 'Preempted Backup Sets'. The 'Preempted Backup Sets' tab is active, displaying a box titled 'Preempted Backup Sets Related Policies' with the text 'No policy defined'. A dark footer bar at the bottom right contains an 'X' and a '?' icon.

3. Monitoring Live Activities

3.1 Managing Live Activities

1. Login to AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).
2. To manage your backup and restore live activities, simply click the Live Activities icon from your AhsayCBS environment.



You can perform the following operations on your own user account:

- View the status of the backup process live or finished within 1 hour
- View the status of the restore process live or finished within 1 hour

NOTE

If there are any backup and restore jobs which are unexpectedly terminated or crashed the job status should automatically clear after 72 hours.

3.2 Backup Status

The **Backup Status** tab allows you to monitor the live activities of backup jobs running in both agent-based (AhsayOBM/ AhsayACB) and agentless (AhsayCBS User Web Console) type.

Available Restore Jobs Can Be Monitored by Live Activities			
Backup Type	AhsayOBM	AhsayACB	Ahsay Mobile
File Backup	✓	✓	NA
Cloud File Backup	✓	✓	NA
IBM Lotus Domino Backup	✓	NA	NA
IBM Lotus Notes Backup	✓	✓	NA
MS Exchange Server Backup	✓	NA	NA
MS Exchange Mail Level Backup	✓	NA	NA
MS SQL Server Backup	✓	NA	NA
MS Windows System Backup	✓	✓	NA
MS Windows System State Backup	✓	NA	NA
MS Hyper-V Backup	✓	NA	NA
MySQL Backup	✓	NA	NA
Office 365 Backup	✓	✓	NA
Oracle Database Server	✓	NA	NA
ShadowProtect System Backup	✓	NA	NA
VMware Backup	✓	NA	NA
Synology NAS Backup	✓	NA	NA
QNAP NAS Backup	✓	NA	NA
MariaDB Backup	✓	NA	NA

The following shows the backup status of a live backup activity

The screenshot shows the AhsayCBS Backup Status interface. It includes a header with the AhsayCBS logo and the text "Backup Status" and "Restore Status". Below the header, there is a sub-header "Backup Status" and a table with columns: Login Name (Alias), Owner, Backup Set, Destination, Progress, Estimated Time Left, Current File, and Transfer Rate. The table contains one row for a backup job named "WinTest (WinTest)" with a progress of 100% and a transfer rate of 41Mib/s.

Login Name (Alias)	Owner	Backup Set	Destination	Progress	Estimated Time Left	Current File	Transfer Rate
WinTest (WinTest)	--	BackupSet-2	AhsayCBS	100 %	0 sec	C:\Users\Administrator\Documents\backupfiles_2018\EncryptionKey_11142018.bt	41Mib/s

3.3 Restore Status

The **Restore Status** tab allows you to monitor the live activities of restore jobs running in both agent-based (AhsayOBM/ AhsayACB/ AhsayOBR) and agentless (AhsayCBS User Web Console) type.

Restore Type		Ahsay OBM	Ahsay ACB	Ahsay OBR	Ahsay Mobile
File	Normal Restore	✓	✓	✓	NA
	OpenDirect Restore	X	X	X	NA
Cloud File Backup		✓	✓	✓	NA
IBM Lotus Domino Backup		✓	NA	✓	NA
IBM Lotus Notes Backup		✓	✓	✓	NA
MS Exchange Server Backup		✓	NA	✓	NA
MS Exchange Mail Level Backup		✓	NA	✓	NA
MS SQL Server Backup		✓	NA	✓	NA
MS Windows System Backup		✓	✓	✓	NA
MS Windows System State Backup		✓	NA	✓	NA
MS Hyper-V	Normal Restore	✓	NA	✓	NA
	Run Direct Restore	✓	NA	✓	NA
	Granular Restore with AhsayOBM File Explorer	✓	NA	✓	NA
	Granular Restore with Windows File Explorer	X	NA	X	NA
MS SQL Server Backup		✓	NA	✓	NA
MySQL Backup		✓	NA	✓	NA
Office 365 Backup		✓	✓	✓	NA
Oracle Database Server		✓	NA	✓	NA
ShadowProtect System Backup		✓	NA	✓	NA
VMware	Normal Restore	✓	NA	✓	NA

	Run Direct Restore	✓	NA	✓	NA
	Granular Restore with AhsayOBM File Explorer	✓	NA	✓	NA
	Granular Restore with Windows File Explorer	X	NA	X	NA
Synology NAS Backup		✓	NA	NA	NA
QNAP NAS Backup		✓	NA	NA	NA
MariaDB Backup		✓	NA	✓	NA

The following shows the restore status of a live restore activity.

AhsayCBS

Backup Status Restore Status

All restore jobs that are currently running or finished within 1 hour.

Restore Status

Login Name (Alias)	Owner	Backup Set	Destination	Progress	Estimated Time Left	Current File	Transfer Rate
obm.test.brenda ()	--	backup-set-name-2	CBS	100%	0 sec		0bit/s

NOTE

OpenDirect restore of file backup sets or granular restore from VMware and Hyper-V backup sets performed using Windows File Explorer will not show up on the [Restore Status] tab in Live Activities. This only applies to the restore performed directly through AhsayOBM/AhsayACB/AhsayOBR or AhsayCBS User Web Console.

4. Managing Backup Set

Since all the steps in creating a backup set, running a backup job, and restoring a backup are generic, follow these links for detailed instructions for Office 365 and Cloud File.

Agent-based

Cloud File

- ▶ [AhsayACB v8 User Guide – Cloud File Backup & Restore for Windows](#)
- ▶ [AhsayACB v8 User Guide – Cloud File Backup & Restore for Mac](#)
- ▶ [AhsayOBM v8 User Guide – Cloud File Backup & Restore for Windows](#)
- ▶ [AhsayOBM v8 User Guide – Cloud File Backup & Restore for Mac](#)

Office 365

- ▶ [AhsayACB v8 User Guide - Office365 Backup & Restore for Windows](#)
- ▶ [AhsayACB v8 User Guide - Office365 Backup & Restore for Mac](#)
- ▶ [AhsayOBM v8 User Guide - Office365 Backup & Restore for Windows](#)
- ▶ [AhsayOBM v8 User Guide - Office365 Backup & Restore for Mac](#)

Agentless

Cloud File – [Cloud File Run on Server \(Agentless\) Backup and Restore Guide](#)

Office 365 – [Office 365 Run on Server \(Agentless\) Backup and Restore Guide](#)

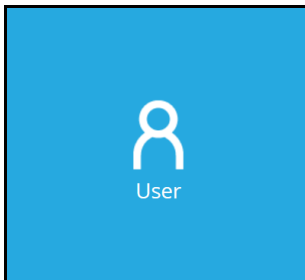
The links above will redirect you to the user guides of Office 365 and Cloud File and from there it will discuss the two (2) options of creating a backup set, running a backup job, and restoring a backup which are through AhsayCBS User Web Console (Agentless) and AhsayACB/AhsayOBM (Agent-based).

4.1 Create Backup Set (Generic Steps)

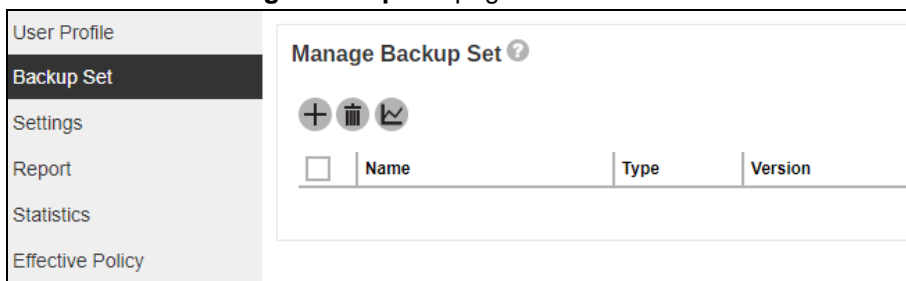
You can use your AhsayCBS user account to create backup sets and complete the remaining part of the process on the backup client for setting up the encryption type and/or encryption key. In some cases, you may need to create backup sets first before you install a backup client on the client machine.

To add a new backup set, do the following:

1. Login to the AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).
2. Click **User** icon from AhsayCBS environment.



3. Click **+** on the **Manage Backup Set** page.



4. Enter the **Name** of the new backup set and select the backup set type from the **Backup set type** dropdown box. The choices for backup set types are:


- File Backup
- IBM Lotus Domino Backup
- IBM Lotus Notes Backup
- MS Exchange Server Backup
- MS Exchange Mail Level Backup
- MS SQL Server Backup
- MS Hyper-V Backup
- MS Windows System Backup
- MySQL Backup
- MariaDB Backup
- Oracle Database Server Backup
- ShadowProtect System Backup
- MS Windows System State Backup
- VMware Backup
- Cloud File Backup
- Office 365 Backup

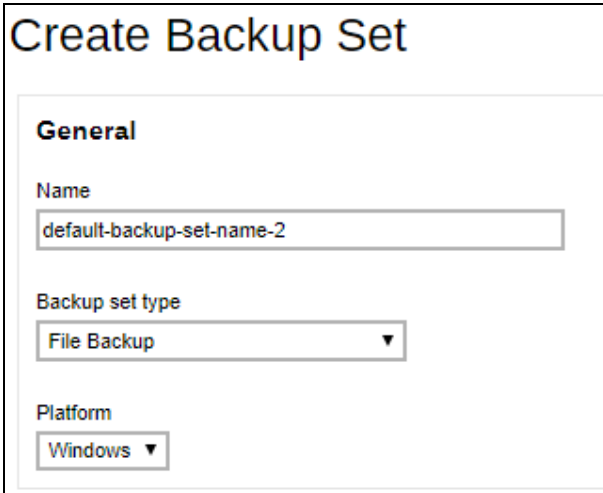
Also select the operating system used for the backup client from the **Platform** dropdown box. The choices for the platform are:

- Windows
- Linux
- Mac

The Linux platform option also applies to backup sets running under FreeBSD, QNAP and Synology.

Once the backup set creation process is completed on the backup client, the value for the platform will be updated accordingly. For QNAP the platform value is QTS, for Synology the platform value is DSM and for FreeBSD the platform value is FreeBSD.

In our example, the new File backup set running on Windows is called default-backup-set-name-2. Click  at the bottom right corner of the screen to continue.



Create Backup Set

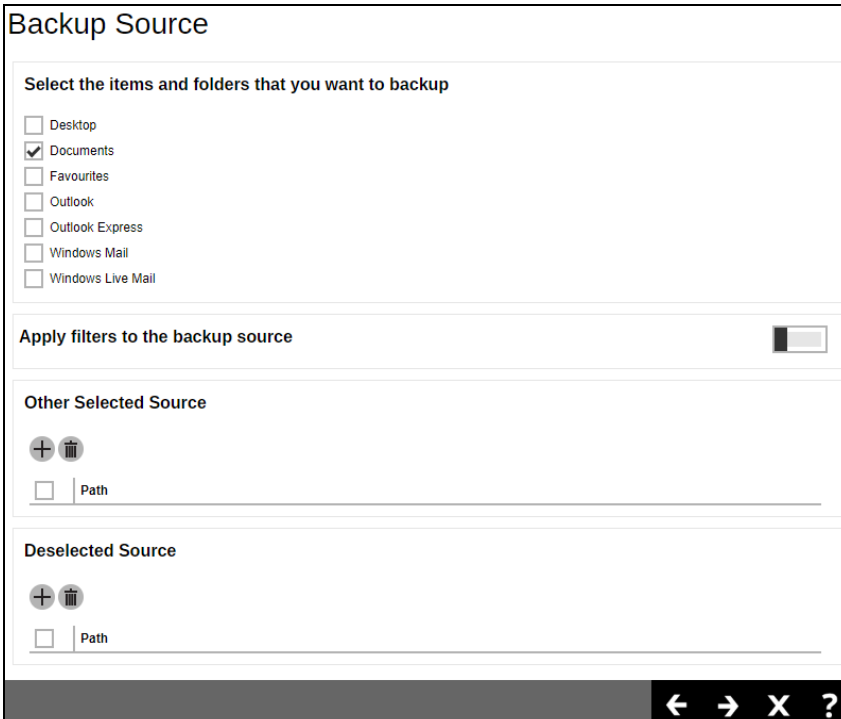
General

Name
default-backup-set-name-2

Backup set type
File Backup

Platform
Windows

5. Specify the backup source for the new backup set. The content of the Backup Source page differs depending on the backup set type you have chosen. Below is an example of creating a file backup set on Windows.



Backup Source

Select the items and folders that you want to backup

- Desktop
- Documents
- Favourites
- Outlook
- Outlook Express
- Windows Mail
- Windows Live Mail

Apply filters to the backup source

Other Selected Source

+ -

Path

Deselected Source

+ -

Path

← → X ?

There are three (3) ways to select file(s) and/or folder(s) for back up:

- i. Select folder(s) to back up all files in the folder(s).

Select the items and folders that you want to backup

Desktop

Documents

Favourites

Outlook


Outlook Express



Windows Mail

Windows Live Mail

- ii. Use the filter to specify file(s) and/or folder(s) that will be included in the back up.

Turn on **Apply filters to the backup source** and click  to create a filter.

Apply filters to the backup source 



Name


Enter the **Name** of the filter. Click  to specify the **Matching pattern**.

Filter

Name

Matching pattern

Pattern 

s

Select from the options below. In this example, all files that starts with the letter “s” will be included in the backup job.

For each of the matched files/folders under top directory


Include them

Exclude them

Exclusion

Exclude all unmatched files/folders

Match file/folder names by

Simple comparison 

Regular expression (UNIX-style)

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, enter the local / network address that you would like to apply the filter to.

How to Apply This Filter

Apply this filter to all files/folders in


All hard disk drives

This folder only (Input local / network address)

This share requires access credentials

Apply to

File Folder

If 'This share requires access credentials' is checked, enter the **User name** and **Password** of the local or network drive. This checkbox will only be enabled if a local or network address is detected. Click  to add the filter.

This share requires access credentials

User name (e.g. domain\username)

Password

iii. Specify the source folder or network drive where the file(s) and folder(s) for back up are located. Network drive support has been enhanced which will allow users to access different network drives not limited to Windows-based backup source. This enhancement will support:

- Network drives with different login credentials instead of limited to Windows User Authentication login or network drives without login credential.
- Network drives without the need for them to be setup first on Windows.
- Network drives as Backup Source (including filter), Backup Destination and Restore Location (Original or Alternate).

Click  under **Other Selected Source**. Enter the **Local Path / Network Address**.

Other Selected Source


Local Path / Network Address


This share requires access credentials


If 'This share requires access credentials' is checked, enter the **User name** and **Password** of the local or network drive. This checkbox will only be enabled if a local or network address is detected.


This share requires access credentials
User name (e.g. domain\username)

Password


Click  to add the selected source. You may add multiple source folder and/or network drive by doing the steps above until all the source folders and/or network drives are added.

You may also specify a source which would be excluded from the backup job by clicking the  under **Deselected Source** instead. Steps are the same as with Other Selected Source.



Click  at the bottom right corner of the screen to continue.

6. By default, the **Run scheduled backup for this backup set** option is enabled. There is already a backup schedule created which is scheduled to run daily at 8pm. This may be edited, or you may opt to create a new backup schedule by clicking  in the middle of the screen.

Add New Backup Set





Run scheduled backup for this backup set 

Manage schedule

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	Backup Schedule	Daily

Run scheduled backup on computers named

- Enter the information of the new backup schedule you want to add.

Backup Schedule

Client version < 8.3.3.50 does not support periodic schedule, periodic schedule will work as normal schedule.

Details

Name

Type

Start backup
 :

Stop

Run Retention Policy after backup

+ X ?

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

Details

Name

Type

Start backup
 :

Stop

Run Retention Policy after backup

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

Details

Name

Type

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

Start backup
 :

Stop

Run Retention Policy after backup

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

Details

Name
Monthly-1

Type
Monthly

Backup on the following day every month
 Last
 First Sunday

Start backup at
00 : 00

Stop
until full backup completed

Run Retention Policy after backup

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

Details

Name
Custom-1

Type
Custom

Backup on the following day once
2020 December 31

Start backup at
23 : 59

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.

Start backup

every 1 minute

Run Retention Policy after backup

- 1 minute
- 2 minutes
- 3 minutes
- 4 minutes
- 5 minutes
- 6 minutes
- 10 minutes
- 12 minutes
- 15 minutes
- 20 minutes
- 30 minutes
- 1 hour
- 2 hours
- 3 hours
- 4 hours
- 6 hours
- 8 hours
- 12 hours

Start backup

every 1 minute

Run Retention Policy after backup

- 1 minute
- 2 minutes
- 3 minutes
- 4 minutes
- 5 minutes
- 6 minutes
- 10 minutes
- 12 minutes
- 15 minutes
- 20 minutes
- 30 minutes
- 1 hour
- 2 hours
- 3 hours
- 4 hours
- 6 hours
- 8 hours
- 12 hours

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

Details	Details
Name Weekly-1	Name Weekly-2
Type Weekly	Type Weekly
Backup on these days of the week <input type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tue <input type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input type="checkbox"/> Sat	Backup on these days of the week <input checked="" type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat
Start backup every 4 hours	Start backup at 21:00
<input checked="" type="checkbox"/> Run Retention Policy after backup	Stop until full backup completed <input checked="" type="checkbox"/> Run Retention Policy after backup

Periodic backup schedule runs every 4 hours Monday to Friday during business hours while the normal backup schedule runs at 21:00 or 9:00 PM on Saturday and Sunday during weekend non-business hours.


- **Stop** – the stop time of the backup job. This only applies to schedules with start backup “at” and is not supported for periodic backup schedule (start backup “every”).
- **until full backup completed** – this option will stop a backup job once it is complete. This is the configured stop time of the backup job by default.
- **after (defined no. of hrs.)** – this option will stop a backup job after a certain number of hours regardless of whether the backup job has completed or not. This can range from 1 to 24 hrs.


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

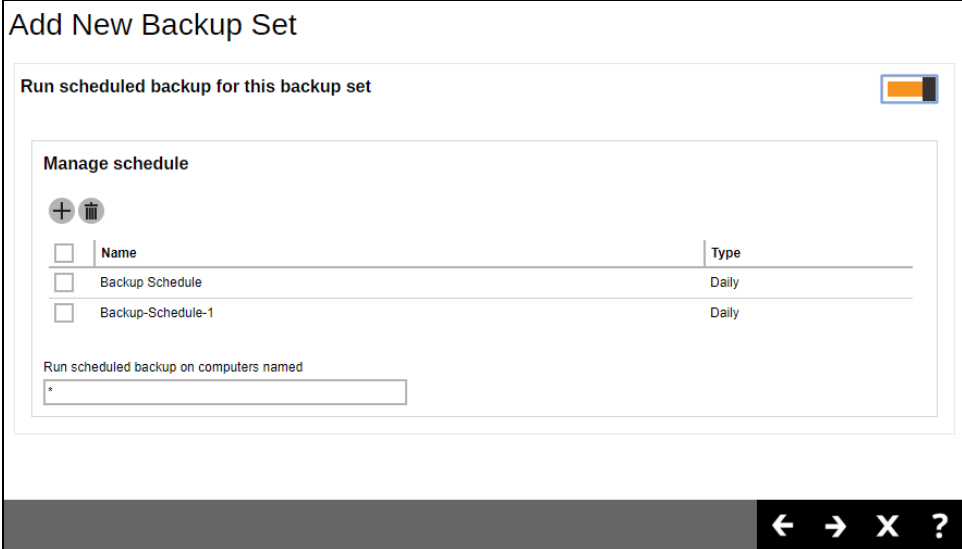
For example, if a backup has 100GB file size which will take approximately 15 hours to complete on your environment, but you set the “stop” after 10 hours, the file will be partially backed up and cannot be restored. The next backup will upload the files from scratch again.

The partially backed up data will have to be removed by running the Data Integrity Check.


As a general rule, it is recommended to review this setting regularly as the data size on the backup machine may grow over time

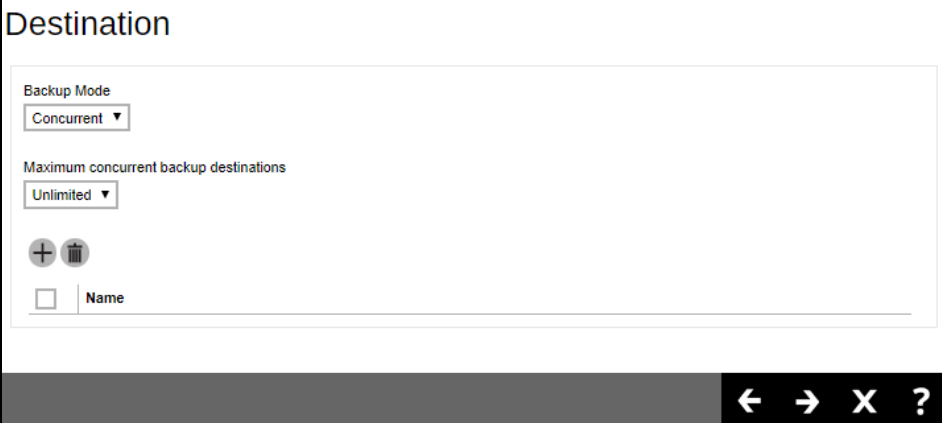
- **Run Retention Policy after backup** – if enabled, the AhsayOBM will run a retention policy job to remove files from the backup destination(s) which have exceeded the retention policy after performing a backup job.
- Click  at the bottom right corner of the screen to continue.
- The new backup schedule, **Backup-Schedule-1** in our example, can be seen under the **Manage schedule** list.

Click  at the bottom right corner of the screen to continue.



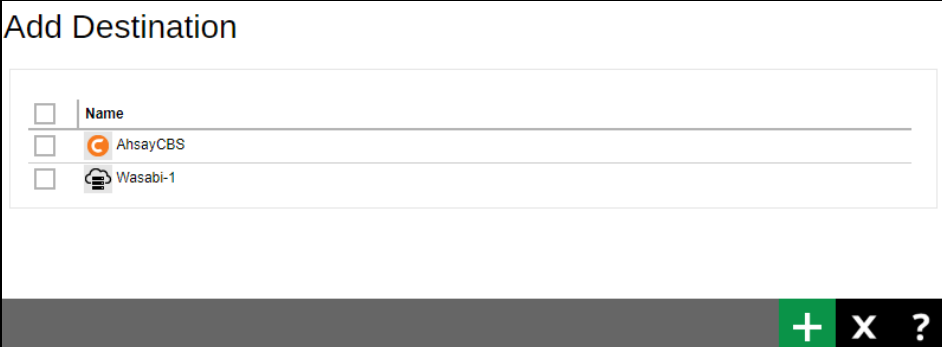
<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	Backup Schedule	Daily
<input type="checkbox"/>	Backup-Schedule-1	Daily

7. Add a new backup destination for this backup set. By default, **Sequential** is selected. From the Backup Mode dropdown box, select either **Sequential** or **Concurrent**. In our example, we selected **Concurrent** as the backup set has more than one backup destination.
 - Add a Standard Destination or Predefined Destination set by your backup service provider by clicking the  in the left side of the screen.



<input type="checkbox"/>	Name
<input type="checkbox"/>	

- Select your desired destination, it could be one or both displayed destinations. Tick the checkbox and click the plus sign to proceed.



<input type="checkbox"/>	Name
<input type="checkbox"/>	AhsayCBS
<input type="checkbox"/>	Wasabi-1

NOTE

You can choose the Standard Destination which is the AhsayCBS. However, if there are other backup destinations which are already configured by your backup service provider, you can still add them as one of your destinations.

- The Standard and Predefined Destinations have been successfully added.

Destination

Backup Mode
Sequential

<input type="checkbox"/>	Name
<input type="checkbox"/>	Wasabi-1
<input type="checkbox"/>	AhsayCBS

← → ✕ ?

- Click at the bottom right corner of the screen to continue.

8. Click the checkbox if you want to restore using OpenDirect.

Add New Backup Set

OpenDirect

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.

← → ✕ ?

- Enter the Windows User Authentication information. This is needed for backup sets with backup schedule enabled and/or network shared drive selected as a temporary folder, backup source or backup destination. Enter the domain name and user name for AhsayOBM to access the network location.


Add New Backup Set

Windows User Authentication

Domain Name (e.g. mycompany.com) / Host Name

User name

Password

Click  at the bottom right corner of the screen to continue.

- A new backup set called **default-backup-set-name-2** is created and can be seen in the backup set list.

User Profile

Backup Set

Settings

Report

Statistics

Effective Policy

Manage Backup Set ?

<input type="checkbox"/>	Name	Type	Version	Owner	Execute Job
<input type="checkbox"/>	default-backup-set-name-1 (1570004483210)		--	--	--
<input type="checkbox"/>	default-backup-set-name-2 (1570005445654)		--	--	--

X
?

- Click on the backup set and select **Others**, enter the path of the **Temporary Directory**. For example D:\temp

General

Source

Backup Schedule

Continuous Backup

Destination

In-File Delta

Retention Policy

Command Line Tool

Reminder

Bandwidth Control

IP Allowed for Restore

Others

Temporary Directory

Temporary directory for storing backup files

Remove temporary files after backup

Follow Link

Follow link of the backup files


Volume Shadow Copy

Enable Windows' Volume Shadow Copy for open file backup

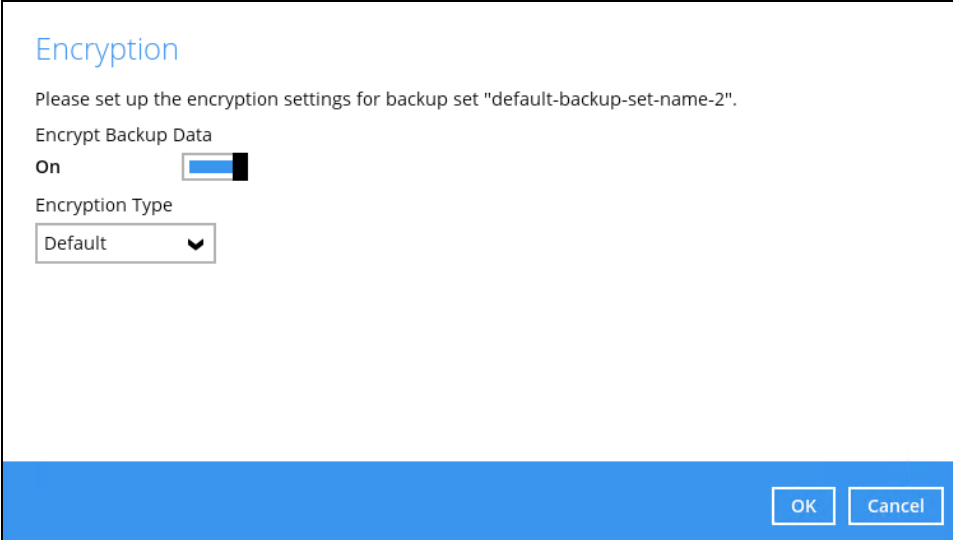
File Permissions

Backup files' permissions

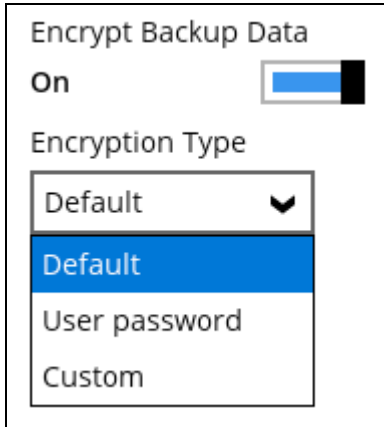
X
?

Click  at the bottom right corner of the screen to save.

- Go to your backup client, in this case we are using AhsayOBM, to complete the setup of the backup set by configuring the encryption settings. Once logged in, you will be asked to set up the encryption for the backup set, in this case **default-backup-set-name-2**.



- By default, the **Encrypt Backup Data** option is enabled. The **Encryption Type** selected is **Default** which provides the most secure protection with an encryption key preset by the system.



Select from one of the three Encryption Type options:

- Default** – an encryption key with 44 alpha numeric characters will be randomly generated by the system
- User password** – the encryption key will be the same as the login password of your AhsayOBM at the time when this backup set is created. Please be reminded that if you change the AhsayOBM 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

Please set up the encryption settings for backup set "default-backup-set-name-2".

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 Wiki article.
http://wiki.ahsay.com/doku.php?id=public:8015_faq:best_practices_for_managing_encryption_key

- If you have enabled the Encryption Key feature, the following pop-up window shows, no matter which encryption type you have selected.

Encryption

Please set up the encryption settings for backup set "default-backup-set-name-2".

You are advised to write this encryption key down on paper and keep it in a safe place. You will need it when you need to restore your files later. Please confirm that you have done so.

.....

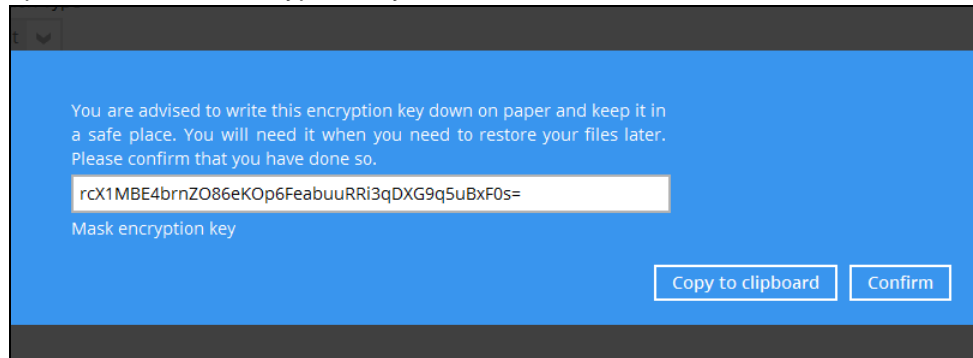
Unmask encryption key

Copy to clipboard Confirm

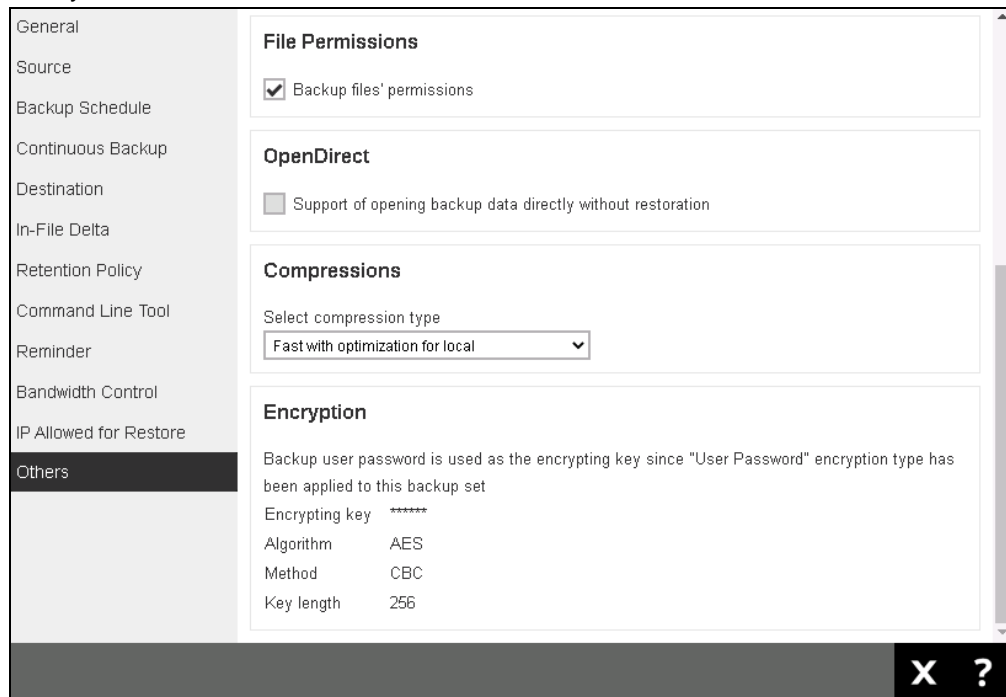
OK Cancel

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 save the encryption settings.
- This completes the setup of the backup set and can be seen under **Encryption** in AhsayCBS user web console.



4.2 Manage Backup Set

Click the backup set name you want to manage from the **Backup Set** tab. It is sub divided into the following tabs:

- General
- Source
- Backup Schedule
- Continuous Backup
- Destination
- In-File Delta
- Retention Policy
- Command Line Tool
- Reminder
- Bandwidth Control
- IP Allowed for Restore
- Others

The screenshot displays the configuration interface for a backup set. On the left is a vertical sidebar with a list of tabs: General (selected), Source, Backup Schedule, Continuous Backup, Destination, In-File Delta, Retention Policy, Command Line Tool, Reminder, Bandwidth Control, IP Allowed for Restore, and Others. The main content area is titled 'General' and contains the following fields:

- General**
 - ID: 1584632378695
 - Name:
 - Owner: -
 - Platform:
 - Backup set type:
- Windows User Authentication**
 - Domain Name (e.g. mycompany.com) / Host Name:
 - User name:
 - Password:

At the bottom right of the window, there are three icons: a green save icon, a black close (X) icon, and a black help (?) icon.

4.3 Run a Backup Job

Run an Agent-based Backup using AhsayOBM / AhsayACB

Except for Cloud File Backup and Office 365 Backup which you can run an agentless backup in AhsayCBS, all other backup modules require you to perform backup and restore using your client backup agent (AhsayOBM or AhsayACB).

For details on creating backup job using AhsayOBM or AhsayACB, refer to the backup module's User Guide which can be downloaded on the [User's Guide download page](#).

Run an Agentless Backup using AhsayCBS User Web Console (for Cloud File and Office 365 Backup only)

There are two types of backup set, **Cloud File Backup** and **Office 365 Backup**, which can run agentless backup using AhsayCBS user web console. These two (2) types of backup set can be created either on the AhsayCBS server, or the AhsayOBM or AhsayACB client and they can be both client-driven and server-driven.

When you create a new backup set with the **Type** being **Cloud File Backup**, you have a choice of whether to run the backup on the **Server** or on the **Client**. Please make sure that you choose **Server** if you want to run the backup from the AhsayCBS server directly.

The screenshot displays the configuration interface for a backup set. On the left is a sidebar menu with options: General, Source, Backup Schedule, Continuous Backup, Destination, In-File Delta, Retention Policy, Bandwidth Control, and Others. The main area is titled 'General' and contains the following fields:

- ID:** 1472020202329
- Name:** cloud file-backup-set-brenda-1
- Owner:** -
- Type:** Cloud File Backup

Below this is a section for 'Cloud File Backup' with the following options:

- Run on:** Radio buttons for Server and Client.
- Backup From:** A dropdown menu currently showing 'Google Drive'.
- Refresh:** A button to refresh the dropdown options.

At the bottom right of the form, there are three icons: a checkmark, an 'X', and a question mark.

Backup Destination for Run-on-Server Backup Set

For **Office 365 Backup** and **Cloud File Backup** sets created in **Run-on-Server** backup type, the available backup destinations are AhsayCBS and Predefined Destinations, only one of these destinations can be selected. For more information on the Predefined Destinations, please contact your backup service provider.

4.4 Restore a Backup (Non-Run Direct Restore)

As opposed to [Run Direct Restore](#) where you can instantly restore a VM by running it directly from the backup files in the backup destination. Non-Run Direct restore is the traditional type of restore where you can restore the backed-up data to the original location, or an alternate location based on your choice.

Restore using AhsayOBM / AhsayACB (Agent-based restore)

Except for Cloud File Backup and Office 365 which you can run an agentless restore in AhsayCBS (refer to the steps below), all other backup modules require you to perform restore using your client backup agent (AhsayOBM or AhsayACB).

Restore using AhsayCBS User Web Console (Agentless restore)

There are two (2) types of backup sets that can be restored through the AhsayCBS User Web Console, **Cloud File Backup** and **Office 365 Backup**, provided that the backup set was created to **Run on Server**.

5. Run Direct Restore

5.1 Introduction

What is Run Direct?

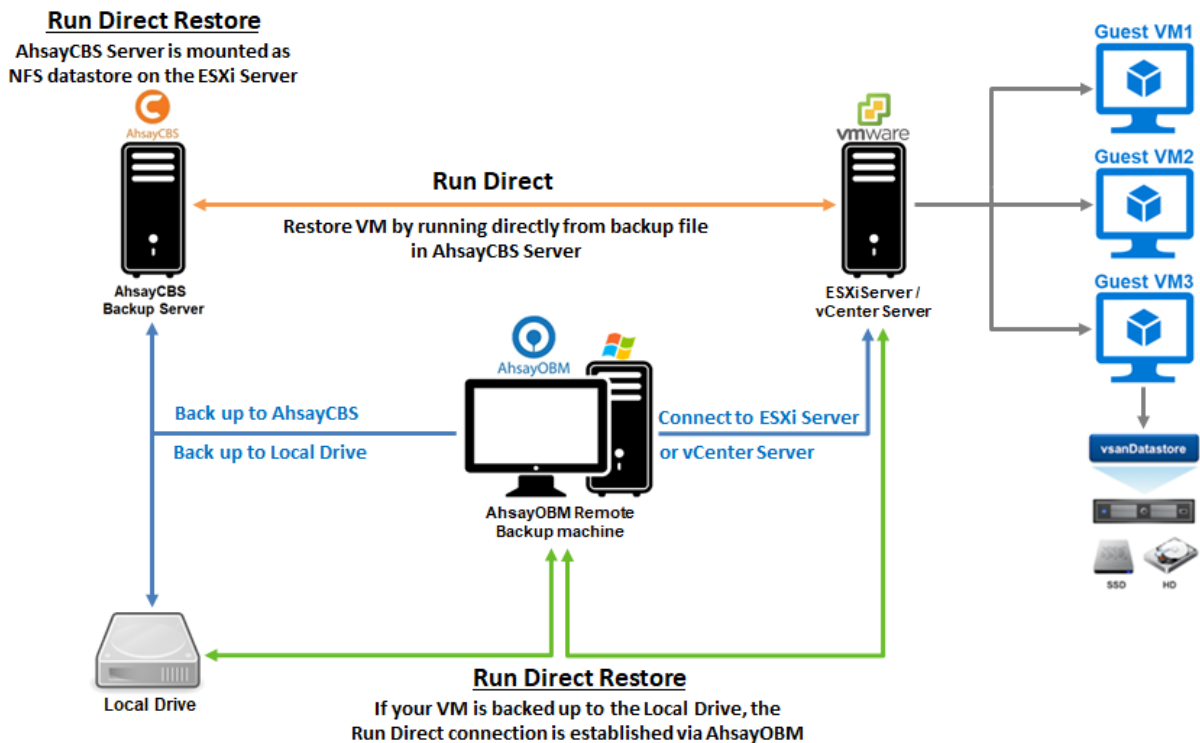
Run Direct is a feature that is supported by AhsayCBS v8.1, which helps reduce disruption and downtime of your production VMs.

Unlike normal VM restore procedure where a VM is extracted from backup files and copied to the production storage, which can take hours to complete. Restore with Run Direct can instantly power up a VM by running it directly from the backup files in the backup destination so that the VM can be put into production.

How does Run Direct work?

When a Run Direct restore is performed, the backup destination is mounted as an NFS datastore from the VMware host, where the VM is run directly from the backup files.

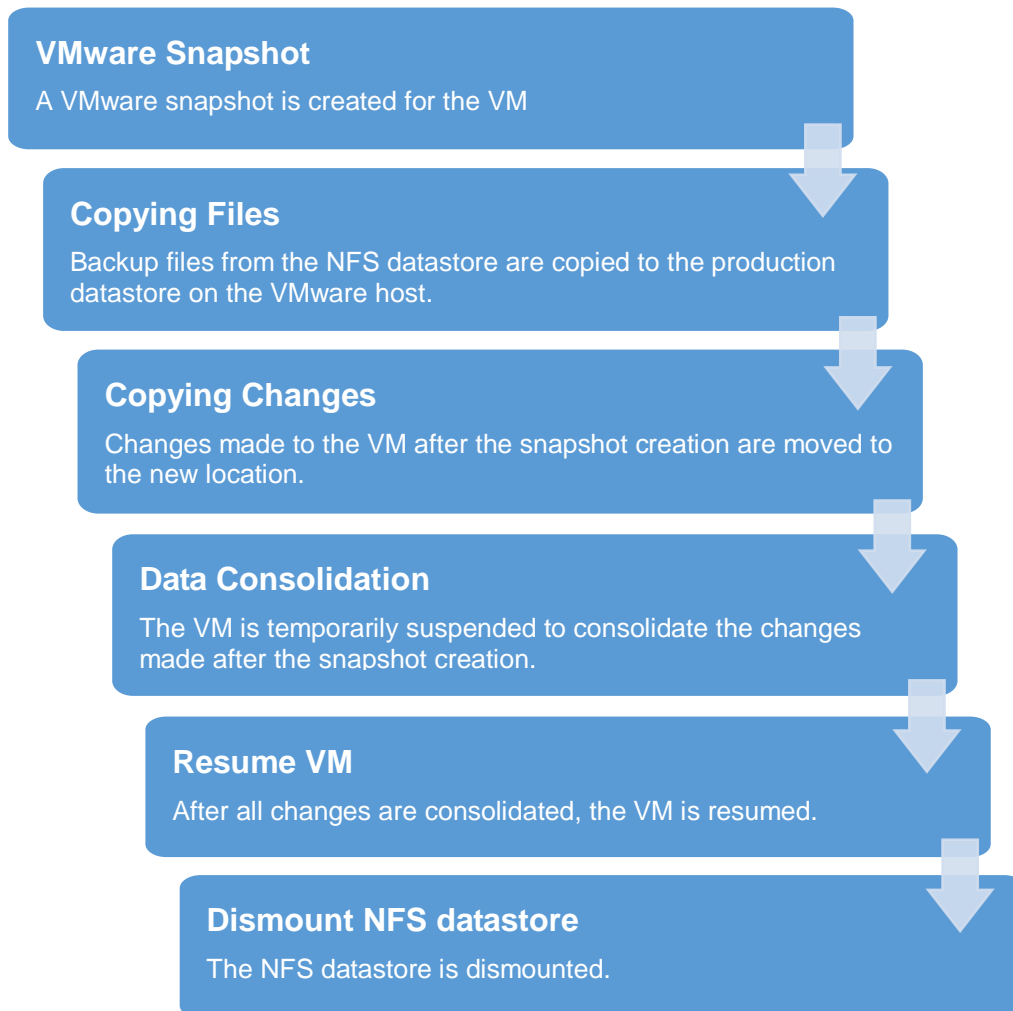
The backup destination can either be the AhsayCBS server or a local drive that can connect with AhsayOBM. Initiating a Run Direct from the AhsayCBS (also known as agentless restore) will trigger a connection directly with the VMware host (ESXi server and direction shown in orange indicator below), while initiating the same action on the AhsayOBM requires the connection to route through the AhsayOBM (shown in green indication below).



The restored virtual machine, at this stage (e.g. before the restore is finalized) is in a read-only state to preserve its integrity. All changes made to the virtual disks (e.g. operation within the guest virtual machine) are stored separately in transaction logs stored on the NFS datastore or the original datastore, depending on the setting selected. These changes are discarded when Run Direct is stopped, where the restored VM will be removed and all changes will be discarded, or the changes will be consolidated with the original virtual machine data when the restore is finalized.

Finalizing a VM Recovery (Migrating VM to permanent location)

To finalize recovery of a VM, you will still need to migrate it to a permanent location on the VMware host. The following steps are taken when you finalize a Run Direct restore:



NOTE

For vCenter VM backup set, provided that the vMotion feature of the vCenter set is working properly, the VM will not be suspended during the data consolidation.

Non-Run Direct Restore

Run Direct restore gives you the convenience of quickly restoring the VM by running it directly from the backup files in the backup destination, however, if you wish to restore the VM permanently to a location of your choice first before accessing the backup files, you should perform a Non-Run Direct restore instead. Refer to [Restoring a Backup \(Non-Run Direct Restore\)](#) for instructions.

Run Direct Requirements & Best Practices

To utilize the Run Direct feature, ensure that the following requirements are met:

• Backup Destination Requirement

When a Run Direct restore is performed, the backup destination containing the guest VM files is mounted on the VMware host as NFS datastore.

Ensure that the following requirements are met by the backup destination of the VMware VM backup set:

- **Destination Type** of the backup destination must be set to a **Single storage destination**.
- Destination must be accessible to the VMWare host.
- Destination must have sufficient disk space available for the Run Direct restore. There should be 1.5 x total provisioned size of all VMs selected for backup.
- For Run Direct restore of 1 VM with provisioned size of 100GB, there should be 150GB (e.g. 1.5 x 100GB) of free space available in the Destination.

• No compression and Encryption

Data backed up to a Run Direct enabled destination is not compressed or encrypted to optimize restore performance as Run Direct will make the VM restored by running the data directly from the backup files in the backup destination.

• Restore to Alternate Location

- When performing a Run Direct restore to **Alternate Location**, only one VM can be selected per restore session.
- Consider creating separate VMware VM backup set for each VM that you intend to perform Run Direct restore (e.g. VMs that you may restore to alternate location).

5.2 Run Direct Restore Options

Run Direct restore gives you the convenience and flexibility of quickly restoring the VM by running it directly from the backup files in the backup destination, however, you may still wish to migrate the VM permanently afterward. There are 3 Run Direct Restore options you can choose from as explained below.

- ▶ Option 1: Perform Run Direct Only

This option allows you to power up the VM instantly by running it directly from the backup files, but it won't be migrated to any permanent location on VMware host. Leave the **Auto migrate after Run Direct is running** checkbox unchecked in step 6 under [Performing a Run Direct Restore on VM](#) below if you wish to go for this option.

- ▶ Option 2: Perform Run Direct + Auto Migration

This option allows you to power up the VM instantly by running it directly from the backup files. While you can now access the Run Direct restored VM, it will also be migrated automatically to a permanent location on the original VMware host, another datastore of the original VMware host or another VMware host. Make sure the **Auto migrate after Run Direct is running** checkbox is checked in step 6 under [Performing a Run Direct Restore on VM](#) below if you wish to go for this option.

- ▶ Option 3: Perform Run Direct + Manual Migration

This option allows you to power up the VM instantly by running it directly from the backup files. While you can now access the Run Direct restored VM, you will have to manually migrate the VM to a permanent location on the original VMware host, another datastore of the original VMware host or another VMware host. Leave the **Auto migrate after Run Direct is running** checkbox unchecked in step 6 under [Performing a Run Direct Restore on VM](#) below if you wish to go for this option. When the Run Direct restore is completed, you can initiate a Manual Migration any time. Refer to step 8 below for relevant instructions.

NOTE

If perform Run Direct only without migration, any changes made to the VM during the Run Direct power up process will be lost when the VM is powered down.

If perform Run Direct with auto or manual migration, any changes made to the VM during the Run Direct power up process will be consolidated with the original virtual machine data once the migration has been completed successfully.

5.3 Performing a Run Direct Restore on VM

AhsayCBS v8.5.0.118 or above now supports backup and restore of VMware VMs stored on vSAN datastore. With this development, there are now several scenarios for restoring VMs using Run Direct.

The restoration steps for the four scenarios will be discussed below:

- ▶ [Restore backup from VMFS datastore to VMFS datastore](#)
- ▶ [Restore backup from VMFS datastore to vSAN datastore](#)
- ▶ [Restore backup from vSAN datastore to vSAN datastore](#)
- ▶ [Restore backup from vSAN datastore to VMFS datastore](#)

5.3.1 Restore a backup from VMFS datastore to VMFS datastore

1. Login to AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).

NOTE

Before you can start Run Direct, you must have a VMware backup set created in the AhsayOBM client. Please refer to the [Ahsay Online Backup Manager v8 VMware vCenter/ESXi Backup & Restore Guide](#) for information on how to create the backup set.

In addition, you must also run a successful backup on the VMware backup set before you can perform restore from Run Direct.

2. Click the **VM Run Direct** icon from your AhsayCBS environment.

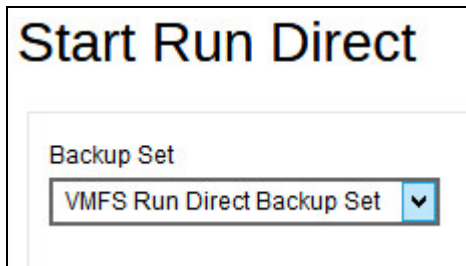


3. Click **+** from the **Run Direct** page to start a new Run Direct session.




4. Select the **Backup Set** from the dropdown box of VMware backup set you have created. In our example, the backup set is called **VMFS Run Direct Backup Set**. Click **▶** to

continue.



The screenshot shows a window titled "Start Run Direct". Below the title is a section labeled "Backup Set" with a dropdown menu. The dropdown menu is open, showing "VMFS Run Direct Backup Set" as the selected option.

5. Select the backup job to restore from the **Restore file of job** dropdown box. In our example, there are two virtual machines. Check the box next to the one on which we will perform a restore, **Lubuntu12x**.



The screenshot shows a window titled "Start Run Direct". Below the title is a section labeled "Restore file of job" with a dropdown menu set to "2021-03-24-14-29-13". Below this is a tree view of virtual machines. The tree is expanded to show "vCenter05-v65" > "Datacenter" > "Hosts and Clusters" > "10.16.8.42". Under "10.16.8.42", there are two virtual machines: "Lubuntu12x" (checked) and "New Virtual Machine 2" (unchecked).

6. Select the location to restore your virtual machine. They are found under **Restore virtual machine to** on the **Start Run Direct** page.
 - Select **Original Location** to restore the VM to its original EXSi host and datastore.



The screenshot shows a window titled "Start Run Direct". Below the title is a section labeled "Restore virtual machines to" with two radio button options: "Original Location" (selected) and "Alternate Location".

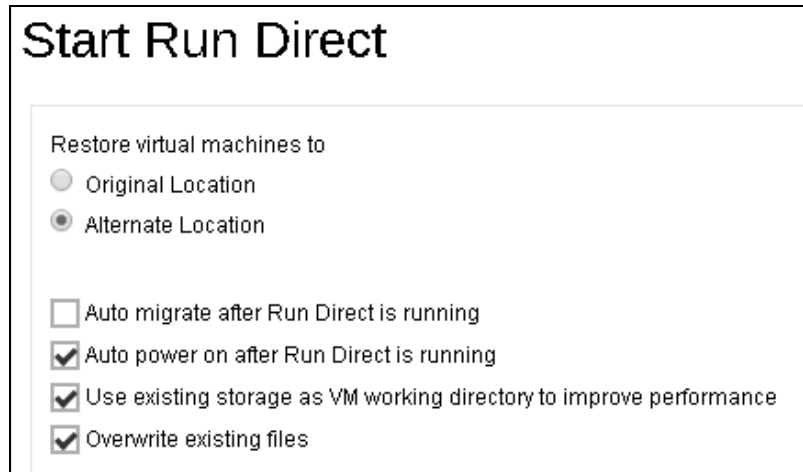
- Select **Alternate Location** to restore the VM to a different VMware host and a different datastore. Alternatively, you can also restore to the same VMware host but to a different datastore.

NOTE

If you select Alternate Location, you will see an additional option Overwrite existing files.



Configure the following options according to your restore requirements.



⦿ **Auto migrate after Run Direct is running**

Select this option if you want to auto migrate the virtual machine to a permanent location on the original VMware host, another VMware host, or same VMware host but another datastore, depending on whether you have chosen **Original Location** or **Alternate Location** to restore your VM.

⦿ **Auto power on after Run Direct is running**

Select this option to power up the virtual machine automatically, after Run Direct is running for the VM.

⦿ **Use existing storage as VM working directory to improve performance**

Select this option to enhance performance of the restored VM.

⦿ **Overwrite existing files** (Alternate Location only)

Select this option to overwrite existing files when restoring to a different VMware host or a different datastore.

Click  to proceed when you are done with the settings.

7. This step only applies if you selected **Alternate Location**, you need to enter the VMware host and access information of where you would like the VM to be restored to. Otherwise skip to Step 9.

For restoration to another VMware ESXi host, select **VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7** as **Version**, then enter the **Username**, **Password**, **Host**, and **Port** of the new host.

Start Run Direct

VMware Host

Version

Username

Password

Host

Port

- Specify the **Name**, **Inventory Location**, **Host/Cluster**, **Resource Pool**, and **Storage** for the alternate location.

Start Run Direct

Name

Inventory Location

Host / Cluster

Resource Pool

Storage

Click  to start the restore.

- The **Run Direct** page appears, showing the status message of the Run Direct restore job.

Run Direct

<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	VMFS Run Direct Backup Set	10.120.8.40	Datacenter/New Virtual Machine 1	<div style="width: 50%; background-color: blue;"></div> 50%	2021-03-24 16:02:52	Adding virtual machine "New Virtual Machine 1" to the inventory...		

If your Run Direct is successful, you get a message similar to the following, with Status showing OK and Progress showing 100%.

Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	Yes	VMFS Run Direct Backup Set	10.120.8.40	Datacenter/New Virtual Machine 1	<div style="width: 100%; height: 10px; background-color: blue;"></div> 100%	2021-03-24 16:02:52		OK	Migrate

Restore log messages on AhsayCBS

Click on the item on the Run Direct page.

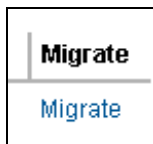
Timestamp	Type	Message
2021-03-24 04:03:39	info	Preparing for Run Direct...
2021-03-24 04:03:40	info	Use target storage as VM working directory. Reason = "Delta disk format of virtual disks is not supported by datastore."
2021-03-24 04:03:45	info	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...
2021-03-24 04:03:51	info	Adding virtual machine "New Virtual Machine 1" to the inventory...
2021-03-24 04:04:31	info	Taking snapshot "__snapshot_for_publish__" of virtual machine "New Virtual Machine 1"...
2021-03-24 04:04:39	info	Powering on virtual machine "New Virtual Machine 1"...
2021-03-24 04:05:18	info	Please do not Edit, Remove or Revert any existing snapshot before migration is completed.
2021-03-24 04:05:18	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion T...	Server
Create NAS datastore	10.16.8.42	Completed	VSPHERE.LOC...	24 ms	03/24/2021, 4:03:43 PM	03/24/2021, 4:03:46 PM	vCenter05-v65
Register virtual machine	Datacenter	Completed	VSPHERE.LOC...	28 ms	03/24/2021, 4:03:51 PM	03/24/2021, 4:04:00 PM	vCenter05-v65
Reload virtual machine	New Virtu...	Completed	VSPHERE.LOC...	11 ms	03/24/2021, 4:04:04 PM	03/24/2021, 4:04:10 PM	vCenter05-v65
Create virtual machine snapshot	New Virtu...	Completed	VSPHERE.LOC...	10 ms	03/24/2021, 4:04:29 PM	03/24/2021, 4:04:34 PM	vCenter05-v65
Power On virtual machine	New Virtu...	Completed	VSPHERE.LOC...	23 ms	03/24/2021, 4:04:38 PM	03/24/2021, 4:05:13 PM	vCenter05-v65

- If you did not enable the **Auto Migrate after Run Direct is running** option in step 6, but still wish to migrate VM to a permanent location of your choice, click on the **Migrate** button as shown.



Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	VMFS Run Direct Backup Set	10.120.8.40	Datacenter/New Virtual Machine 1	<div style="width: 89%; height: 10px; background-color: blue;"></div> 89%	2021-03-24 16:02:52	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x- 000002-sesparse.vmdk		

If your migration is successful, you get a message similar to the following.

Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	VMFS Run Direct Backup Set	10.120.8.40	DatacenterNew Virtual Machine 1	<div style="width: 100%; height: 10px; background-color: blue;"></div> 100%	2021-03-24 16:02:52		OK	

Restore log messages on AhsayCBS

Click on the restore item on the Run Direct page to see the restore log messages.

Timestamp	Type	Message
2021-03-24 04:09:47	info	Start manual migration...
2021-03-24 04:09:49	info	Loading information...
2021-03-24 04:10:24	info	Taking snapshot "__snapshot_for_migrate__" of virtual machine "New Virtual Machine 1"...
2021-03-24 04:10:42	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-000001-sesparse.vmdk
2021-03-24 04:11:01	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-000001.vmdk
2021-03-24 04:11:07	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-flat.vmdk
2021-03-24 04:28:58	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x.vmdk
2021-03-24 04:29:05	info	Suspending virtual machine "New Virtual Machine 1"...
2021-03-24 04:29:22	info	Loading information...
2021-03-24 04:29:44	info	Removing virtual machine "New Virtual Machine 1" from the inventory...
2021-03-24 04:29:45	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x.nvram
2021-03-24 04:29:51	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x.vmsd
2021-03-24 04:29:57	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x.vmx
2021-03-24 04:30:01	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x.vmf
2021-03-24 04:30:02	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-79064c22.vms
2021-03-24 04:30:31	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-000002-sesparse.vmdk
2021-03-24 04:30:37	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-000002.vmdk
2021-03-24 04:30:41	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-Snapshot1.vmsn
2021-03-24 04:30:42	info	Migrating...[Datastore-SHR01 (1)] New Virtual Machine 1/Lubuntu12x-Snapshot2.vmsn
2021-03-24 04:30:48	info	Adding virtual machine "New Virtual Machine 1" to the inventory...
2021-03-24 04:31:16	info	Powering on virtual machine "New Virtual Machine 1"...
2021-03-24 04:31:23	info	Removing snapshot "__snapshot_for_migrate__" from virtual machine "New Virtual Machine 1"...
2021-03-24 04:32:33	info	Removing snapshot "__snapshot_for_publish__" from virtual machine "New Virtual Machine 1"...
2021-03-24 04:32:54	info	Unmount datastore "cbs-RunDirect"...
2021-03-24 04:32:57	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queued For	Start Time	Completion T...	Server
Create virtual machine snapshot	New Virtu...	Completed	VSPHERE.LOC...	15 ms	03/24/2021, 4:10:22 PM	03/24/2021, 4:10:38 PM	vCenter05-v65
Copy file	Datastore...	Completed	VSPHERE.LOC...	14 ms	03/24/2021, 4:11:05 PM	03/24/2021, 4:28:53 PM	vCenter05-v65
Suspend virtual machine	New Virtu...	Completed	VSPHERE.LOC...	11 ms	03/24/2021, 4:29:03 PM	03/24/2021, 4:29:16 PM	vCenter05-v65
Unregister virtual machine	New Virtu...	Completed	VSPHERE.LOC...	26 ms	03/24/2021, 4:29:43 PM	03/24/2021, 4:29:43 PM	vCenter05-v65
Copy file	Datastore...	Completed	VSPHERE.LOC...	27 ms	03/24/2021, 4:29:43 PM	03/24/2021, 4:29:45 PM	vCenter05-v65
Register virtual machine	Datacenter	Completed	VSPHERE.LOC...	16 ms	03/24/2021, 4:30:47 PM	03/24/2021, 4:30:51 PM	vCenter05-v65
Power On virtual machine	New Virtu...	Completed	VSPHERE.LOC...	13 ms	03/24/2021, 4:31:15 PM	03/24/2021, 4:31:20 PM	vCenter05-v65
Remove snapshot	New Virtu...	Completed	VSPHERE.LOC...	32 ms	03/24/2021, 4:32:32 PM	03/24/2021, 4:32:38 PM	vCenter05-v65
Delete file	Datastore...	Completed	VSPHERE.LOC...	8 ms	03/24/2021, 4:32:45 PM	03/24/2021, 4:32:47 PM	vCenter05-v65
Remove datastore	cbs-RunDI...	Completed	VSPHERE.LOC...		03/24/2021, 4:32:52 PM	03/24/2021, 4:32:53 PM	vCenter05-v65

11. Click X to exit when finished.

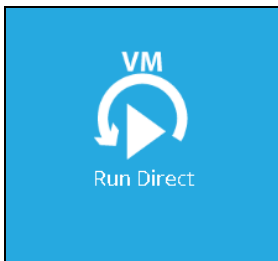
5.3.2 Restore a backup from VMFS datastore to vSAN datastore

1. Login to AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).

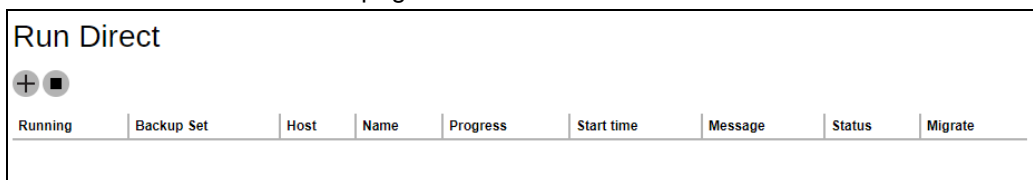
NOTE

Before you can start Run Direct, you must have a VMware backup set created in the AhsayOBM client. Please refer to the [Ahsay Online Backup Manager v8 VMware vCenter/ESXi Backup & Restore Guide](#) for information on how to create the backup set. In addition, you must also run a successful backup on the VMware backup set before you can perform restore from Run Direct.

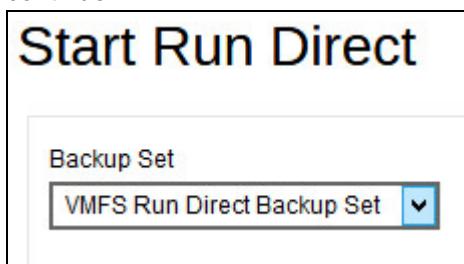
2. Click the **VM Run Direct** icon from your AhsayCBS environment.



3. Click **+** from the **Run Direct** page to start a new Run Direct session.

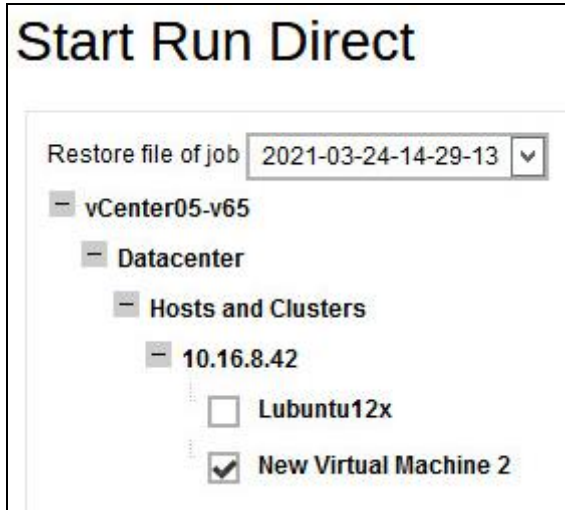


4. Select the **Backup Set** from the dropdown box of VMware backup set you have created. In our example, the backup set is called **VMFS Run Direct Backup Set**. Click **➔** to continue.



5. Select the backup job to restore from the **Restore file of job** dropdown box. In our example, there are two virtual machines. Check the box next to the one on which we will

perform a restore, **New Virtual Machine 2**.

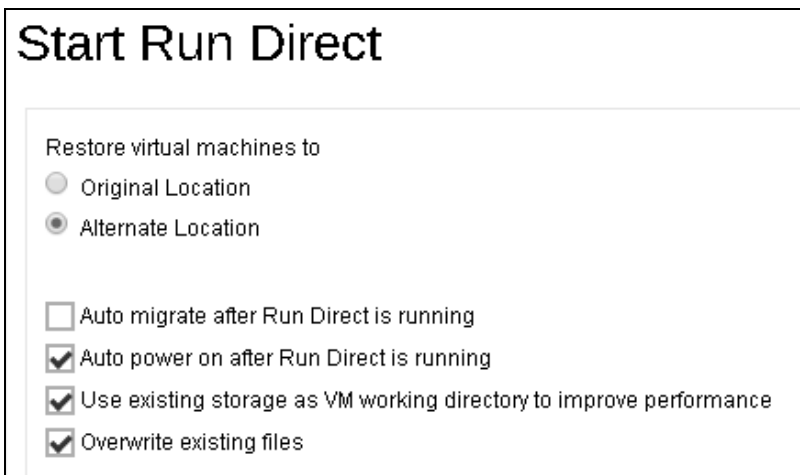


6. Select the location to restore your virtual machine. They are found under **Restore virtual machine to** on the **Start Run Direct** page.

Select **Alternate Location** to restore the VM to a different VMware host and a different datastore. Alternatively, you can also restore to the same VMware host but to a different datastore.

NOTE

If you select Alternate Location, you will see an additional option Overwrite existing files.



Configure the following options according to your restore requirements:

- **Auto migrate after Run Direct is running**

Select this option if you want to auto migrate the virtual machine to a permanent location on the original VMware host, another VMware host, or same VMware host but another datastore, depending on whether you have chosen **Original Location** or **Alternate Location** to restore your VM

- **Auto power on after Run Direct is running**


Select this option to power up the virtual machine automatically, after Run Direct is running for the VM.

- ◉ **Use existing storage as VM working directory to improve performance**

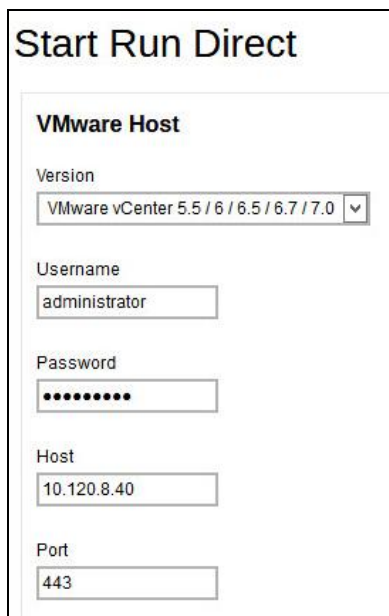
Select this option to enhance performance of the restored VM.

- ◉ **Overwrite existing files** (Alternate Location only)

Select this option to overwrite existing files when restoring to a different VMware host or a different datastore.

Click  to proceed when you are done with the settings.

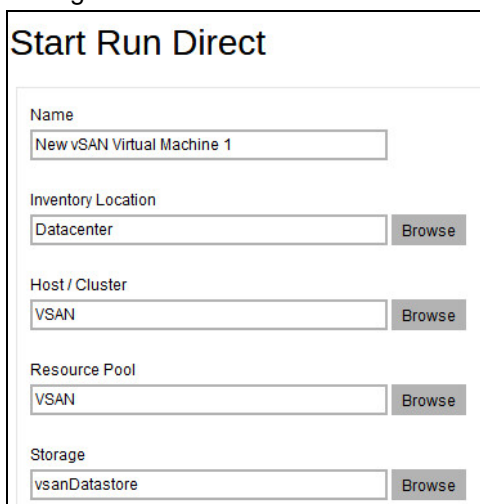
7. Enter the VMware host and access information of where you would like the VM to be restored to. Select **VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7** as **Version**, then enter the **Username**, **Password**, **Host**, and **Port** of the new host.



The screenshot shows the 'Start Run Direct' dialog box with the following fields:

- VMware Host**
- Version:** VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7.0 (dropdown menu)
- Username:** administrator
- Password:** [masked with dots]
- Host:** 10.120.8.40
- Port:** 443

8. Enter a new **Name** for the VM, then **Browse** to modify the **Host/Cluster** and **Storage** settings to select the datastore.



The screenshot shows the 'Start Run Direct' dialog box with the following fields:

- Name:** New vSAN Virtual Machine 1
- Inventory Location:** Datacenter (with a 'Browse' button)
- Host / Cluster:** VSAN (with a 'Browse' button)
- Resource Pool:** VSAN (with a 'Browse' button)
- Storage:** vsanDatastore (with a 'Browse' button)

Select the **Host / Cluster** and **Storage**.



The screenshot shows two radio button options:

- 10.16.8.42
- VSAN

- datastore1 (2)
- datastore1 (3)
- datastore1 (4)
- datastore3
- vsanDatastore

NOTE

It is important to select the vSAN Host/Cluster as well as the vSAN datastore for the storage.

Click  to start the restore.

- The **Run Direct** page appears, showing the status message of the Run Direct restore job.

Run Direct										
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate	
<input type="checkbox"/>	No	VMFS Run Direct Backup Set	10.120.8.40	Datacenter/New vSAN Virtual Machine 1		2021-03-25 12:17:34	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...			

If your Run Direct is successful, you get a message similar to the following, with Status showing OK and Progress showing 100%.

Run Direct										
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate	
<input type="checkbox"/>	Yes	VMFS Run Direct Backup Set	10.120.8.40	Datacenter/New vSAN Virtual Machine 1	100%	2021-03-25 12:17:34		OK	Migrate	

Restore log messages on AhsayCBS

Click on the item on the Run Direct page.

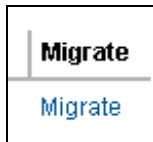
Timestamp	Type	Message
2021-03-25 12:18:20	info	Preparing for Run Direct...
2021-03-25 12:18:24	info	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...
2021-03-25 12:18:28	info	Adding virtual machine "New vSAN Virtual Machine 1" to the inventory...
2021-03-25 12:18:58	info	Taking snapshot "__snapshot_for_publish__" of virtual machine "New vSAN Virtual Machine 1"...
2021-03-25 12:19:06	info	Powering on virtual machine "New vSAN Virtual Machine 1"...
2021-03-25 12:19:17	info	Please do not Edit, Remove or Revert any existing snapshot before migration is completed.
2021-03-25 12:19:17	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queu...	Start Time ↑	Completion Time
Create NAS datastore	10.16.8.47	✓ Completed	VSPHERE.LOCAL...	19 ms	03/25/2021, 12:1...	03/25/2021, 12:18:23
Register virtual machine	Datacent...	✓ Completed	VSPHERE.LOCAL...	8 ms	03/25/2021, 12:1...	03/25/2021, 12:18:32
Reload virtual machine	New vSA...	✓ Completed	VSPHERE.LOCAL...	10 ms	03/25/2021, 12:1...	03/25/2021, 12:18:37
Create virtual machine ...	New vSA...	✓ Completed	VSPHERE.LOCAL...	15 ms	03/25/2021, 12:1...	03/25/2021, 12:19:01
Power On virtual machi...	New vSA...	✓ Completed	VSPHERE.LOCAL...	5 ms	03/25/2021, 12:1...	03/25/2021, 12:19:11 PM

10. If you did not enable the **Auto Migrate after Run Direct is running** option in step 6, but still wish to migrate VM to a permanent location of your choice, click on the **Migrate** button as shown.



Run Direct									
Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate	
<input type="checkbox"/>	VMFS Run		Datacenter/New	<div style="width: 33%;"></div>	2021-03-25	Migrating...Relocate			
<input type="checkbox"/>	Direct Backup Set	10.120.8.40	vSAN Virtual Machine 1	33%	12:17:34	virtual machine "New vSAN Virtual Machine 1"			

If your migration is successful, you get a message similar to the following.

Run Direct									
Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate	
<input type="checkbox"/>	VMFS Run Direct Backup Set	10.120.8.40	Datacenter/New vSAN Virtual Machine 1	<div style="width: 100%;"></div>	2021-03-25		OK		

Restore log messages on AhsayCBS

Click on the restore item on the Run Direct page to see the restore log messages.

Timestamp	Type	Message
2021-03-25 12:27:40	info	Start auto migration...
2021-03-25 12:27:40	info	Migrating...Relocate virtual machine "New vSAN Virtual Machine 1"
2021-03-25 12:46:24	info	Removing snapshot "__snapshot_for_publish__" from virtual machine "New vSAN Virtual Machine 1"...
2021-03-25 12:46:47	info	Unmount datastore "cbs-RunDirect"...
2021-03-25 12:46:50	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queu...	Start Time ↑	Completion Time
Create NAS datastore	10.16.8.47	✓ Completed	VSPHERE.LOCAL\...	19 ms	03/25/2021, 12:1...	03/25/2021, 12:18:23
Register virtual machine	Datacent...	✓ Completed	VSPHERE.LOCAL\...	7 ms	03/25/2021, 12:1...	03/25/2021, 12:18:32
Reload virtual machine	New vSA...	✓ Completed	VSPHERE.LOCAL\...	10 ms	03/25/2021, 12:1...	03/25/2021, 12:18:37
Create virtual machine ...	New vSA...	✓ Completed	VSPHERE.LOCAL\...	15 ms	03/25/2021, 12:1...	03/25/2021, 12:19:01
Power On virtual machi...	New vSA...	✓ Completed	VSPHERE.LOCAL\...	4 ms	03/25/2021, 12:1...	03/25/2021, 12:19:11 PM
Relocate virtual machine	New vSA...	✓ Completed	VSPHERE.LOCAL\...	28 ms	03/25/2021, 12:...	03/25/2021, 12:45:58
Remove snapshot	New vSA...	✓ Completed	VSPHERE.LOCAL\...	10 ms	03/25/2021, 12:...	03/25/2021, 12:46:42
Remove datastore	cbs-Run...	✓ Completed	VSPHERE.LOCAL\...	20 ms	03/25/2021, 12:...	03/25/2021, 12:46:46

11. Click X to exit when finished.

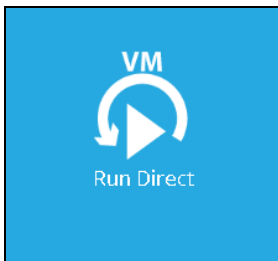
5.3.3 Restore a backup from vSAN datastore to vSAN datastore

1. Login to AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).

NOTE

Before you can start Run Direct, you must have a VMware backup set created in the AhsayOBM client. Please refer to the [Ahsay Online Backup Manager v8 VMware vCenter/ESXi Backup & Restore Guide](#) for information on how to create the backup set. In addition, you must also run a successful backup on the VMware backup set before you can perform restore from Run Direct.

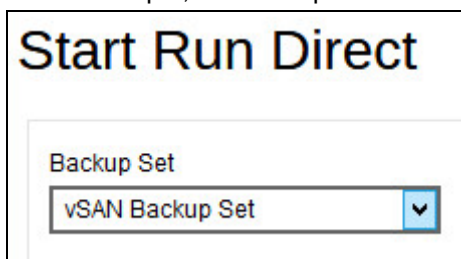
2. Click the **VM Run Direct** icon from your AhsayCBS environment.



3. Click **+** from the **Run Direct** page to start a new Run Direct session.



4. Select the **Backup Set** from the dropdown box of VMware backup set you have created. In our example, the backup set is called **vSAN Backup Set**. Click **➔** to continue.



5. Select the backup job to restore from the **Restore file of job** dropdown box. In our example, the virtual machine is named **Ubuntu 12.04 LTS**. Check the box next to it.



Start Run Direct

Restore file of job 2021-03-09-16-53-59

- vCenter05-v65
 - Datacenter
 - Hosts and Clusters
 - VSAN
 - Ubuntu 12.04 LTS

6. Select the location to restore your virtual machine. They are found under **Restore virtual machine to** on the **Start Run Direct** page.

Select to restore the VM to its **Original Location**.



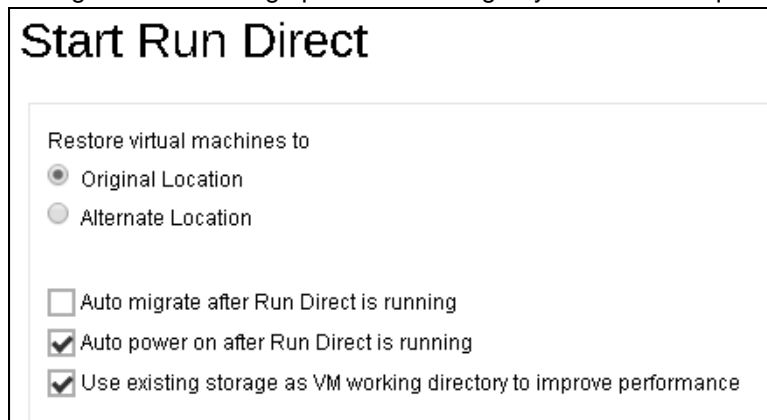
Start Run Direct

Restore virtual machines to

Original Location

Alternate Location

7. Configure the following options according to your restore requirements.



Start Run Direct

Restore virtual machines to

Original Location

Alternate Location

Auto migrate after Run Direct is running

Auto power on after Run Direct is running

Use existing storage as VM working directory to improve performance

Auto migrate after Run Direct is running

Select this option if you want to auto migrate the virtual machine to a permanent location on the original VMware host, another VMware host, or same VMware host but another datastore, depending on whether you have chosen **Original Location** or **Alternate Location** to restore your VM.

Auto power on after Run Direct is running

Select this option to power up the virtual machine automatically, after Run Direct is running for the VM.

⦿ **Use existing storage as VM working directory to improve performance**

Select this option to enhance performance of the restored VM.

Click  to start the restore.

- The **Run Direct** page appears, showing the status message of the Run Direct restore job.

Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	vSAN Backup Set	10.120.8.40	Datcenter/New vSAN Virtual Machine 2		2021-03-25 13:27:05	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...		

If your Run Direct is successful, you get a message similar to the following, with Status showing OK and Progress showing 100%.

Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	Yes	vSAN Backup Set	10.120.8.40	Datcenter/New vSAN Virtual Machine 2	100%	2021-03-25 13:27:05		OK	Migrate

Restore log messages on AhsayCBS

Click on the item on the Run Direct page.

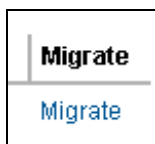
Timestamp	Type	Message
2021-03-25 01:27:55	info	Preparing for Run Direct...
2021-03-25 01:27:58	info	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...
2021-03-25 01:28:03	info	Adding virtual machine "New vSAN Virtual Machine 2" to the inventory...
2021-03-25 01:28:41	info	Taking snapshot "__snapshot_for_publish__" of virtual machine "New vSAN Virtual Machine 2"...
2021-03-25 01:28:49	info	Please do not Edit, Remove or Revert any existing snapshot before migration is completed.
2021-03-25 01:28:49	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queu...	Start Time ↑	Completion Time
Create NAS datastore	10.16.8.47	✓ Completed	VSPHERE.LOCAL...	10 ms	03/25/2021, 1:2...	03/25/2021, 1:27:57 PM ^
Register virtual machine	Datacent...	✓ Completed	VSPHERE.LOCAL...	282 ms	03/25/2021, 1:2...	03/25/2021, 1:28:08 P
Reload virtual machine	New vSA...	✓ Completed	VSPHERE.LOCAL...	15 ms	03/25/2021, 1:2...	03/25/2021, 1:28:15 PM
Create virtual machine ...	New vSA...	✓ Completed	VSPHERE.LOCAL...	9 ms	03/25/2021, 1:2...	03/25/2021, 1:28:45 P

- If you did not enable the **Auto Migrate after Run Direct is running** option in step 6, but still wish to migrate VM to a permanent location of your choice, click on the **Migrate** button as shown.



Run Direct

<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	vSAN Backup Set	10.120.8.40	Datcenter/New vSAN Virtual Machine 2	<div style="width: 35%;"></div> 35%	2021-03-25 13:27:05	Migrating...Relocate virtual machine "New vSAN Virtual Machine 2"		

If your migration is successful, you get a message similar to the following.

Run Direct

<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	vSAN Backup Set	10.120.8.40	Datcenter/New vSAN Virtual Machine 2	<div style="width: 100%;"></div> 100%	2021-03-25 13:27:05		OK	

Restore log messages on AhsayCBS

Click on the restore item on the Run Direct page to see the restore log messages.

Timestamp	Type	Message
2021-03-25 01:31:43	info	Start auto migration...
2021-03-25 01:31:43	info	Migrating...Relocate virtual machine "New vSAN Virtual Machine 2"
2021-03-25 01:49:07	info	Removing snapshot "__snapshot_for_publish_" from virtual machine "New vSAN Virtual Machine 2"...
2021-03-25 01:49:20	info	Unmount datastore "cbs-RunDirect"...
2021-03-25 01:49:23	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queu...	Start Time ↑	Completion Time
Create NAS datastore	10.16.8.47	Completed	VSPHERE.LOCAL\...	9 ms	03/25/2021, 1:2...	03/25/2021, 1:27:57 PM
Register virtual machine	Datacent...	Completed	VSPHERE.LOCAL\...	282 ms	03/25/2021, 1:2...	03/25/2021, 1:28:08 P.
Reload virtual machine	New vSA...	Completed	VSPHERE.LOCAL\...	14 ms	03/25/2021, 1:2...	03/25/2021, 1:28:15 PM
Create virtual machine ...	New vSA...	Completed	VSPHERE.LOCAL\...	9 ms	03/25/2021, 1:2...	03/25/2021, 1:28:45 P.
Relocate virtual machine	New vSA...	Completed	VSPHERE.LOCAL\...	8 ms	03/25/2021, 1:31...	03/25/2021, 1:48:41 PM
Remove snapshot	New vSA...	Completed	VSPHERE.LOCAL\...	9 ms	03/25/2021, 1:4...	03/25/2021, 1:49:12 PM
Remove datastore	cbs-Run...	Completed	VSPHERE.LOCAL\...	28 ms	03/25/2021, 1:4...	03/25/2021, 1:49:19 PM

10. Click X to exit when finished.

5.3.4 Restore a backup from vSAN datastore to VMFS datastore

1. Login to AhsayCBS user web console according to the instruction provided in section [Logging on to AhsayCBS User Web Console](#).

NOTE

Before you can start Run Direct, you must have a VMware backup set created in the AhsayOBM client. Please refer to the [Ahsay Online Backup Manager v8 VMware vCenter/ESXi Backup & Restore Guide](#) for information on how to create the backup set. In addition, you must also run a successful backup on the VMware backup set before you can perform restore from Run Direct.

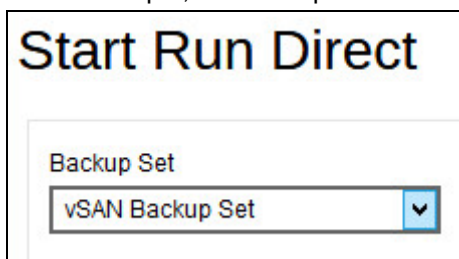
2. Click the **VM Run Direct** icon from your AhsayCBS environment.



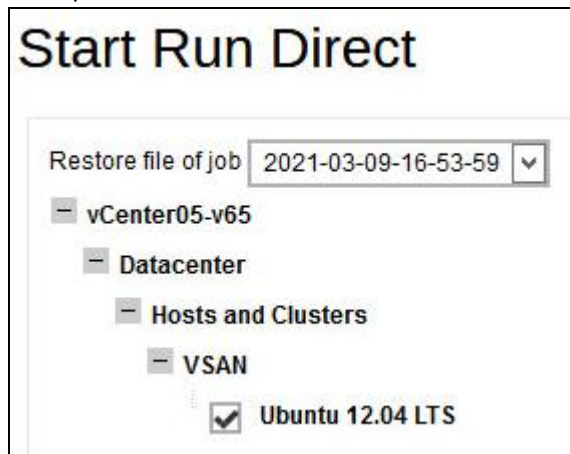
3. Click **+** from the **Run Direct** page to start a new Run Direct session.



4. Select the **Backup Set** from the dropdown box of VMware backup set you have created. In our example, the backup set is called **vSAN Backup Set**. Click **➔** to continue.



5. Select the backup job to restore from the **Restore file of job** dropdown box. In our example, the virtual machine is named **Ubuntu 12.04 LTS**. Check the box next to it.

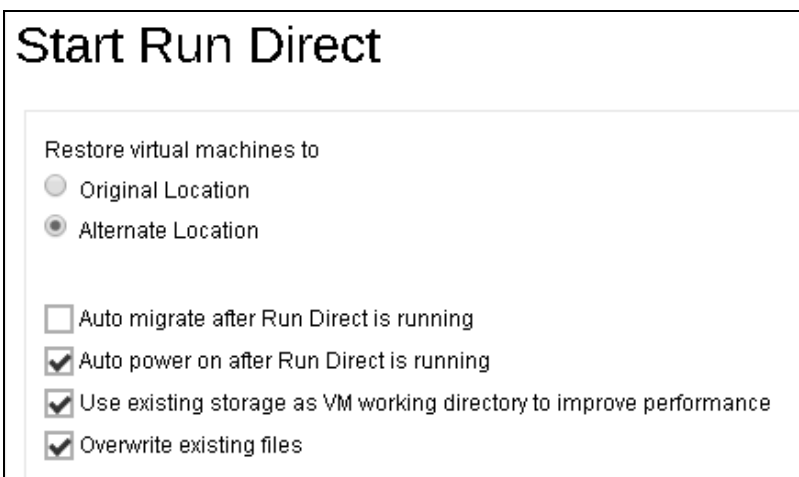


6. Select the location to restore your virtual machine. They are found under **Restore virtual machine to** on the **Start Run Direct** page.

Select **Alternate Location** to restore the VM to a different VMware host and a different datastore. Alternatively, you can also restore to the same VMware host but to a different datastore.

NOTE

If you select Alternate Location, you will see an additional option Overwrite existing files.



Configure the following options according to your restore requirements:

- **Auto migrate after Run Direct is running**
Select this option if you want to auto migrate the virtual machine to a permanent location on the original VMware host, another VMware host, or same VMware host but another datastore, depending on whether you have chosen **Original Location** or **Alternate Location** to restore your VM
- **Auto power on after Run Direct is running**
Select this option to power up the virtual machine automatically, after Run Direct is running for the VM.

- ◉ **Use existing storage as VM working directory to improve performance**

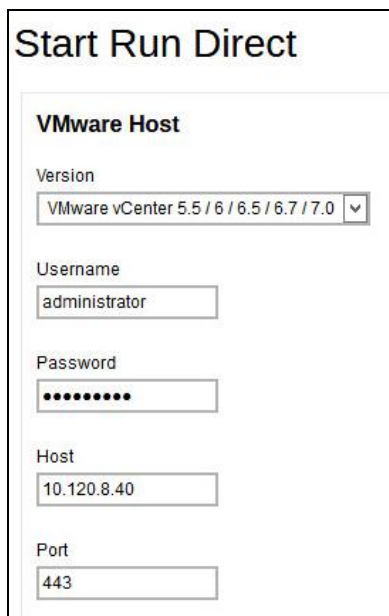
Select this option to enhance performance of the restored VM.

- ◉ **Overwrite existing files** (Alternate Location only)

Select this option to overwrite existing files when restoring to a different VMware host or a different datastore.

Click  to proceed when you are done with the settings.

7. Enter the VMware host and access information of where you would like the VM to be restored to. Select **VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7** as **Version**, then enter the **Username**, **Password**, **Host**, and **Port** of the new host.



The screenshot shows a dialog box titled "Start Run Direct" with a section for "VMware Host". It contains the following fields:

- Version:** A dropdown menu with "VMware vCenter 5.5 / 6 / 6.5 / 6.7 / 7.0" selected.
- Username:** A text input field containing "administrator".
- Password:** A text input field with masked characters (dots).
- Host:** A text input field containing "10.120.8.40".
- Port:** A text input field containing "443".

8. Enter a new **Name** for the VM, then **Browse** to modify the **Host/Cluster** and **Storage** settings to select the datastore.



The screenshot shows a dialog box titled "Start Run Direct" with the following fields and buttons:

- Name:** A text input field containing "New Virtual Machine 4".
- Inventory Location:** A text input field containing "Datacenter" and a "Browse" button.
- Host / Cluster:** A text input field containing "10.16.8.42" and a "Browse" button.
- Resource Pool:** A text input field containing "10.16.8.42" and a "Browse" button.
- Storage:** A text input field containing "Datastore-SHR02 (1)" and a "Browse" button.

Select the **Host / Cluster** and **Storage**.

10.16.8.42
 VSAN

Datastore-SHR01 (1)
 Datastore-SHR02 (1)
 datastore1

Click  to start the restore.

- The **Run Direct** page appears, showing the status message of the Run Direct restore job.

Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	vSAN Backup Set	10.120.8.40	Datacenter/New Virtual Machine 4		2021-03-25 11:42:34	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...		

If your Run Direct is successful, you get a message similar to the following, with Status showing OK and Progress showing 100%.

Run Direct									
<input type="checkbox"/>	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	Yes	vSAN Backup Set	10.120.8.40	Datacenter/New Virtual Machine 4	100%	2021-03-25 11:42:34		OK	Migrate

Restore log messages on AhsayCBS

Click on the item on the Run Direct page.

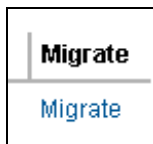
Timestamp	Type	Message
2021-03-25 11:43:21	info	Preparing for Run Direct...
2021-03-25 11:43:25	info	Mount datastore "cbs-RunDirect (192.168.7.101:cbsRunDirect)"...
2021-03-25 11:43:30	info	Adding virtual machine "New Virtual Machine 4" to the inventory...
2021-03-25 11:44:08	info	Taking snapshot "__snapshot_for_publish_" of virtual machine "New Virtual Machine 4"...
2021-03-25 11:44:22	info	Powering on virtual machine "New Virtual Machine 4"...
2021-03-25 11:44:39	info	Please do not Edit, Remove or Revert any existing snapshot before migration is completed.
2021-03-25 11:44:39	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queue...	Start Time ↑	Completion Time
Create NAS datastore	10.16.8.42	Completed	VSPHERE.LOCAL\...	33 ms	03/25/2021, 11:4...	03/25/2021, 11:43:25 A
Register virtual machine	Datacent...	Completed	VSPHERE.LOCAL\...	7 ms	03/25/2021, 11:4...	03/25/2021, 11:43:38 A
Reload virtual machine	New Virt...	Completed	VSPHERE.LOCAL\...	7 ms	03/25/2021, 11:4...	03/25/2021, 11:43:48 A
Create virtual machine ...	New Virt...	Completed	VSPHERE.LOCAL\...	29 ms	03/25/2021, 11:4...	03/25/2021, 11:44:13 A
Power On virtual machi...	New Virt...	Completed	VSPHERE.LOCAL\...	28 ms	03/25/2021, 11:4...	03/25/2021, 11:44:34 A

- If you did not enable the **Auto Migrate after Run Direct is running** option in step 6, but still wish to migrate VM to a permanent location of your choice, click on the **Migrate** button as shown.



Run Direct									
	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	vSAN Backup Set	10.120.8.40	Datacenter/New Virtual Machine 4	36%	2021-03-25 11:42:34	Migrating...Relocate virtual machine "New Virtual Machine 4"		

If your migration is successful, you get a message similar to the following.

Run Direct									
	Running	Backup Set	Host	Name	Progress	Start time	Message	Status	Migrate
<input type="checkbox"/>	No	vSAN Backup Set	10.120.8.40	Datacenter/New Virtual Machine 4	100%	2021-03-25 11:42:34		OK	

Restore log messages on AhsayCBS

Click on the restore item on the Run Direct page to see the restore log messages.

Timestamp	Type	Message
2021-03-25 11:47:43	info	Start auto migration...
2021-03-25 11:47:43	info	Migrating...Relocate virtual machine "New Virtual Machine 4"
2021-03-25 12:01:18	info	Removing snapshot "__snapshot_for_publish__" from virtual machine "New Virtual Machine 4"...
2021-03-25 12:01:26	info	Unmount datastore "cbs-RunDirect"...
2021-03-25 12:01:32	info	Restore Completed Successfully

Restore log messages on the VMware vSphere Client

Open your VMware vSphere Client and you will see the following messages from the Recent Tasks section.

Task Name	Target	Status	Initiator	Queu...	Start Time ↑	Completion Time
Create virtual machine ...	New Virt...	Completed	VSPHERE.LOCAL\...	29 ms	03/25/2021, 11:4...	03/25/2021, 11:44:13 A
Power On virtual machi...	New Virt...	Completed	VSPHERE.LOCAL\...	27 ms	03/25/2021, 11:4...	03/25/2021, 11:44:34 A
Relocate virtual machine	New Virt...	Completed	VSPHERE.LOCAL\...	34 ms	03/25/2021, 11:4...	03/25/2021, 12:00:49 P
Remove snapshot	New Virt...	Completed	VSPHERE.LOCAL\...	25 ms	03/25/2021, 12:...	03/25/2021, 12:01:20 P
Remove datastore	cbs-Run...	Completed	VSPHERE.LOCAL\...	7 ms	03/25/2021, 12:...	03/25/2021, 12:01:25 P

11. Click X to exit when finished.

6. Contacting Ahsay

6.1 Technical Assistance

To contact Ahsay support representatives for technical assistance, visit the Partner Portal:
<https://www.ahsay.com/partners/>

Also use the Ahsay Wikipedia for resource such as Hardware Compatibility List, Software Compatibility List, and other product information:
<https://wiki.ahsay.com/>

6.2 Documentation

Documentations for all Ahsay products are available at:
https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documentation_guides

You can send us suggestions for improvements or report on issues in the documentation, by contacting us at:
<https://www.ahsay.com/jsp/en/contact/kbQuestion.jsp>

Please specify the specific document title as well as the change required/suggestion when contacting us.

Appendix

Appendix A Set Backup Destination on AhsayOBM for Backup Sets Created on AhsayCBS User Web Console

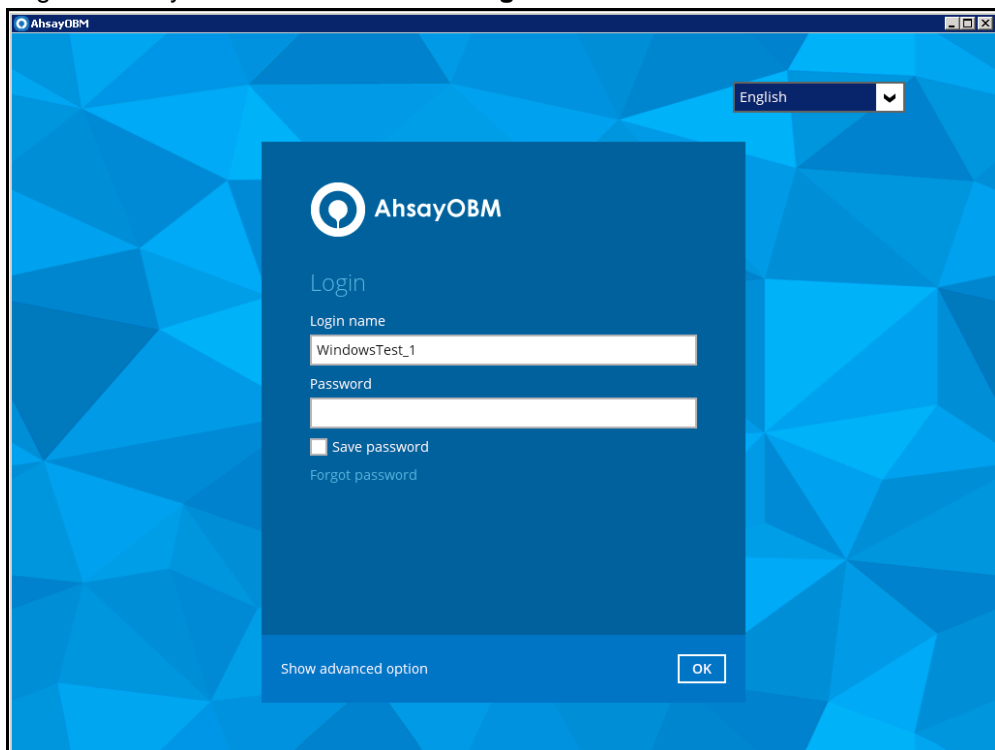
You need to read the instructions below only if you:

- Have created a backup set on AhsayCBS User Web Console; **AND**
- Selected the backup set to Run on Client (if you are running Office 365 Backup and Cloud File Backup Set); **AND**
- Have not selected any Predefined Destination in the backup creation process on the AhsayCBS User Web Console

-OR-

Have selected a Predefined Destination in the backup creation process on AhsayCBS User Web Console but wish to add additional backup destination other than the predefined destination.

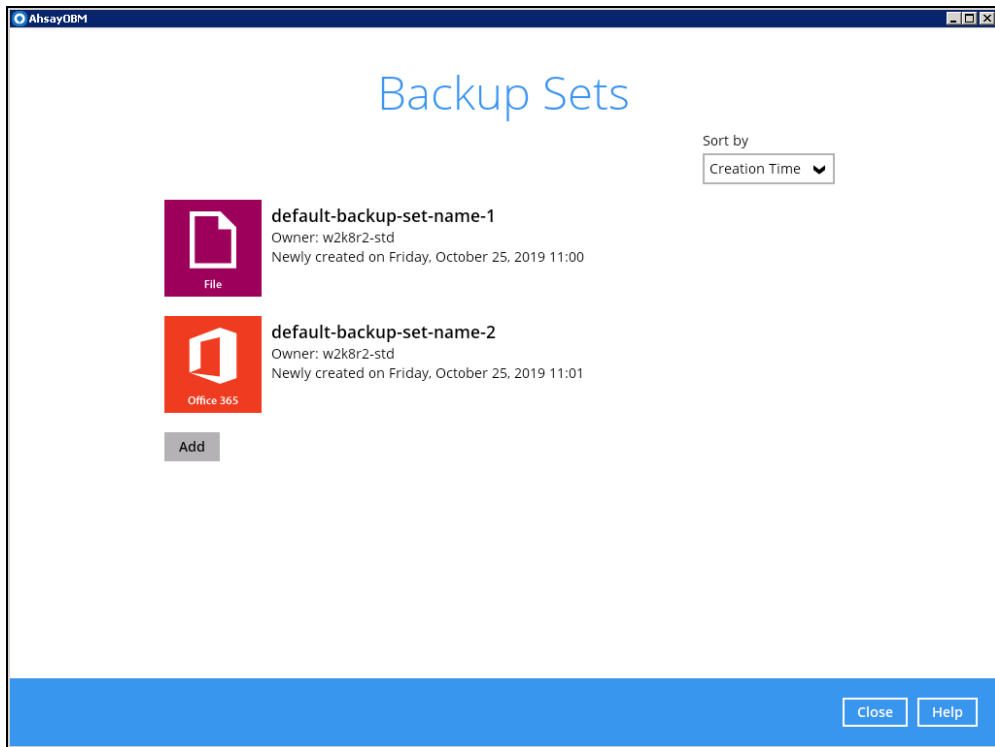
1. Login to AhsayOBM with user account **Login name** and **Password**.



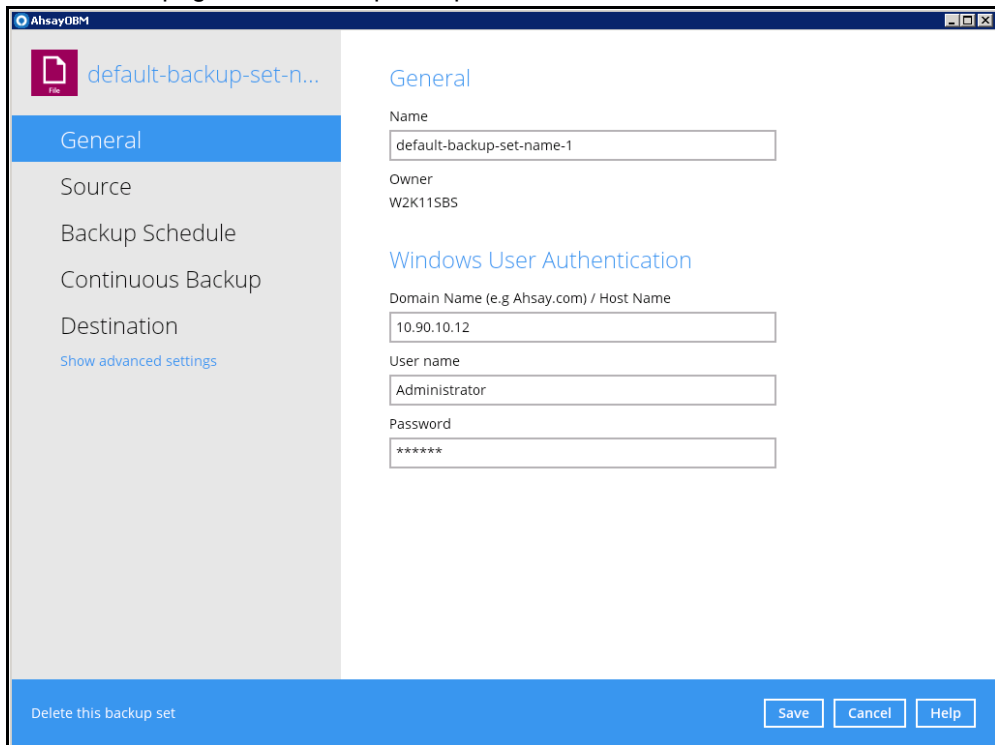
2. Click the **Backup Sets** button to open the backup sets.



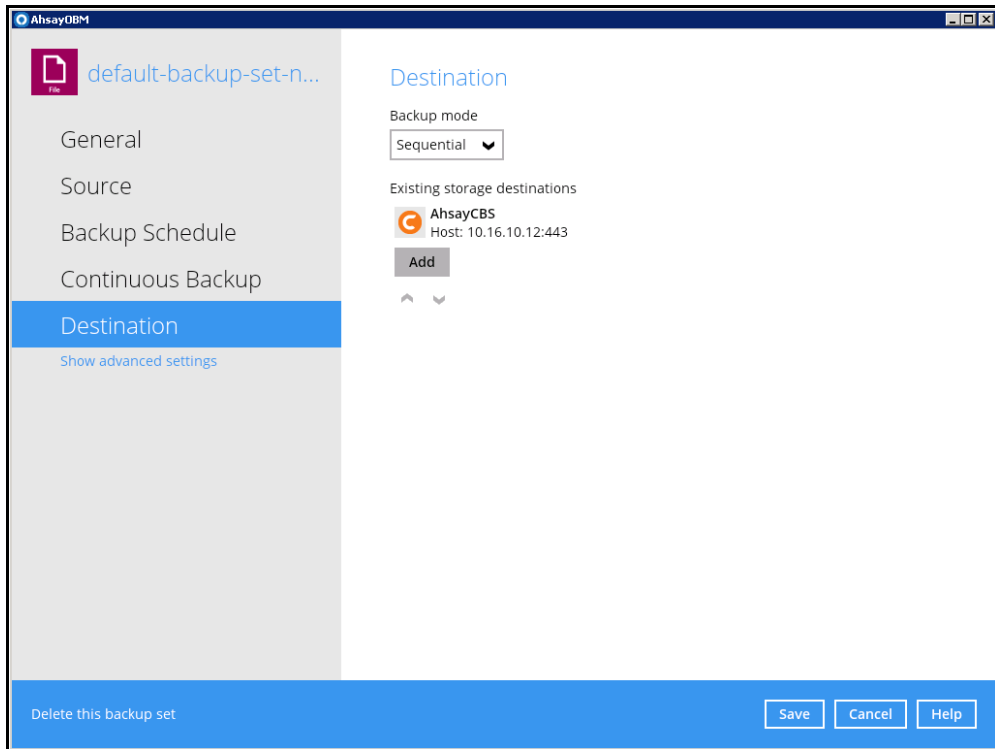
3. Select the backup set you want. In our example, the backup set is called **default-backup-set-name-1**.



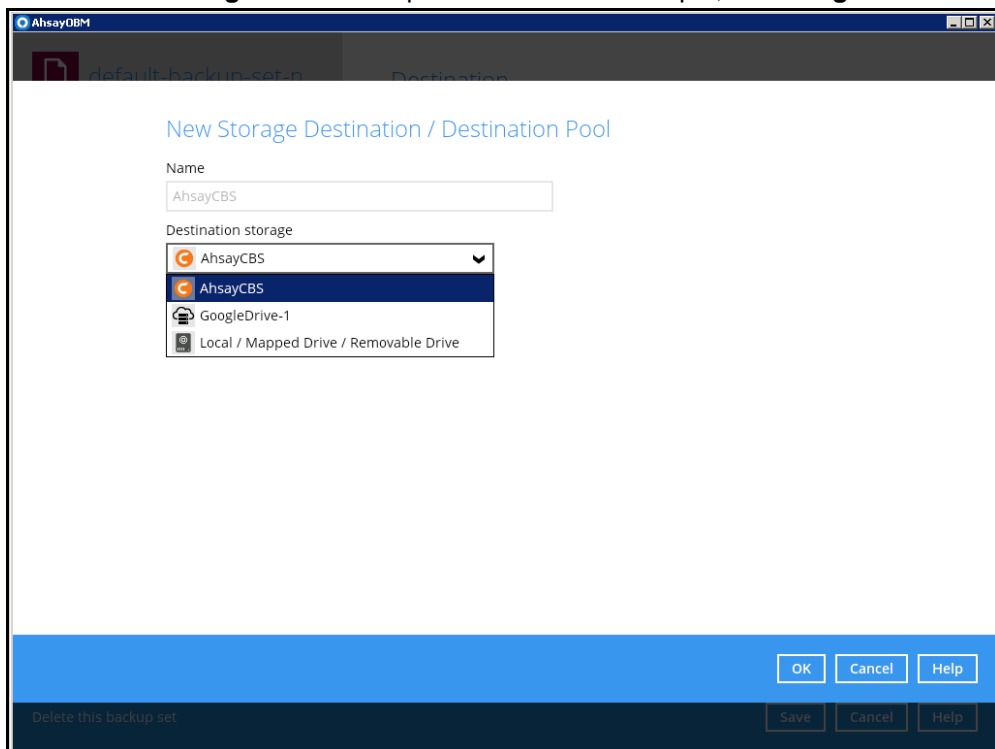
4. The General page of the backup set opens.



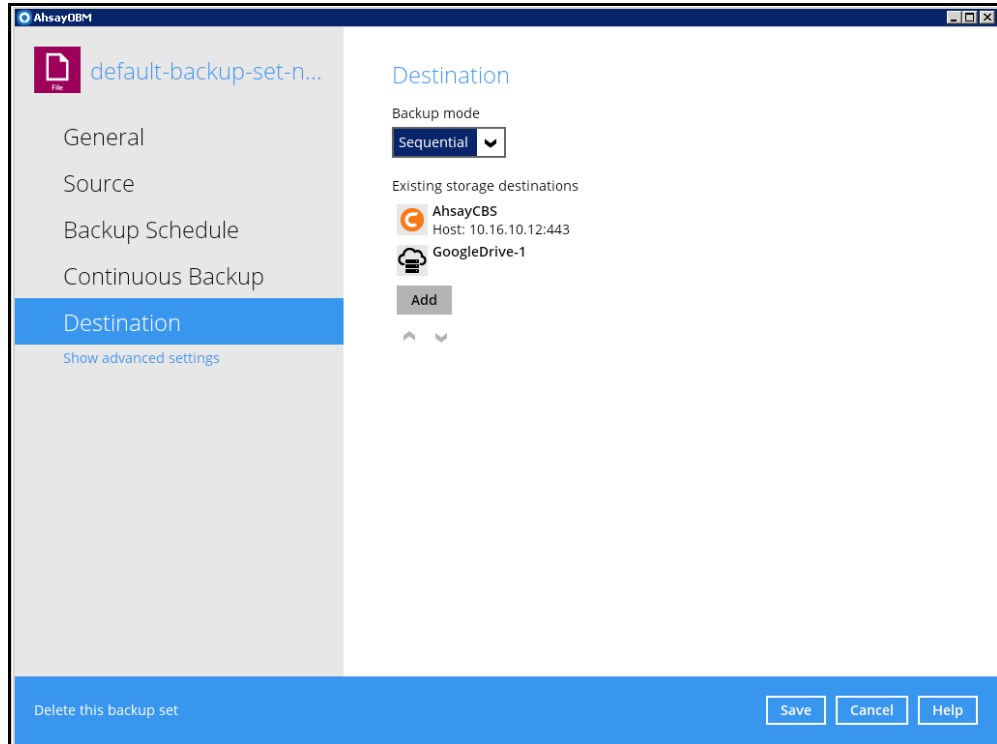
5. Go to the **Destination** page. You can add extra storage destinations here. Click the **Add** button.



6. Add a new destination on the New Storage Destination / Destination Pool. Select the **Destination storage** from the dropdown list. In our example, it is **GoogleDrive-1**.



7. The new storage destination, **GoogleDrive-1**, can be seen on the Destination page.



8. Click on **Save** to save the modification.