

Ahsay Online Backup Manager v8 Office 365 Backup & Restore Guide for MacOS

Ahsay Systems Corporation Limited

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A wholly owned subsidiary of Ahsay Backup Software Development Company Limited HKEx Stock Code: 8290

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Revision History

Date	Descriptions	Type of modification
6 October 2020	Added Appendix L	New
9 October 2020	Updated screenshots in Ch. 7, Appendices F, G and J	Modifications
25 January 2021	Updated PDIC diagram in Ch. 5; Reorganized Permission Requirements in Ch. 2.12; Added Ch. 2.16; Modified Limitations in Ch. 2.17	Modifications
29 January 2021	Updated screenshots in Chapters 2, 7 and Appendix J	Modifications
7 April 2021	Updated Ch. 5; Added sub-chapters for the detailed process diagrams in Ch. 5.1, 5.2, 5.2.1, 5.2.2 and 5.3	New / Modifications
11 October 2021	Added different login instructions in Ch. 3; Added new feature for backup in Ch. 6	New / Modifications

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1 Overview

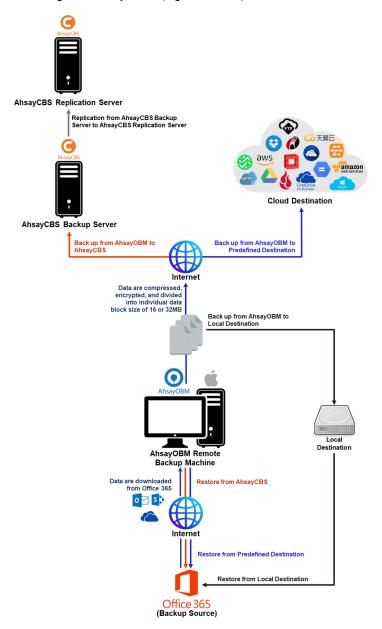
1.1 What is this software?

Ahsay brings you specialized client backup software, namely AhsayOBM, to provide a set of tools to protect your Office 365 user accounts. This includes backup and recovery of individual emails, contacts, calendars and other mail items in your Office 365 Outlook, files on OneDrive and SharePoint, with snapshots / versioning, and retention policy to protect even items that you may have accidentally deleted from your Office 365 user account.

1.2 System Architecture

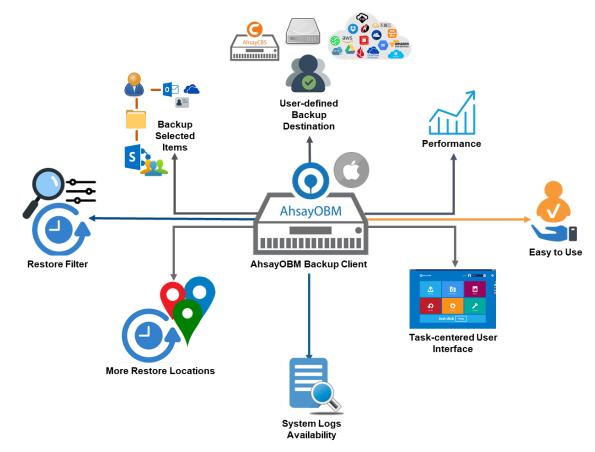
Below is the system architecture diagram illustrating the major elements involved in the backup process among the Office 365 service, AhsayOBM and AhsayCBS.

In this user guide, we will focus on the software installation, as well as the end-to-end backup and restore process using the AhsayOBM (Agent-based).



1.3 Why should I use AhsayOBM or AhsayCBS User Web Console?

We are committed to bringing you a comprehensive Office 365 backup solution with AhsayOBM. Below are some key areas that we can help to make your backup experience a better one.



User-defined Backup Destination

Backup users have more options in assigning a backup destination (i.e. AhsayCBS, Cloud or Predefined destinations, and standard and local destination).

Performance

Agent-based backup is performed on a physical machine or computer with resources that is dedicated for backup and restore operations. Once the backup client is deployed on the machine, the user have more control on the hardware which affects the overall backup and restore performance.

The introduction of the Change Key API in v8.3.4.0 has significantly improved backup performance for both Full and Incremental backup jobs, which means backup sets with large number of Office 365 accounts each incremental backup can be completed within hours.

Easy to Use

Agent-based backup solution has a traditional backup approach that is well understood by most administrators and end users who would only need minimal effort and time to understand the backup and/or restore operations.

Task-centered User Interface

Agent-based backup solution make it a good option for users to have more control on the individual backup/restore and resources management.

System Logs Availability

System logs for data integrity check and space freeing up results is accessible for the end users and can be reviewed anytime. Unlike with the agentless backup where system logs will only be available upon request from the backup service provider.

More Restore Locations

Agent-based backup offers you three (3) restore locations such as the local machine, original location (or the cloud storage where you backed up them), and alternate location (which is through the same cloud storage but on a different folder).

Restore Filter

Agent-based backup has a restore filter feature which allows users to easily search directories, files, and/or folders to restore.

Fast and Efficient

We understand that backup could be a time and resources consuming process, which is why AhsayOBM is designed with advanced technologies to make backup a fast and efficient process.

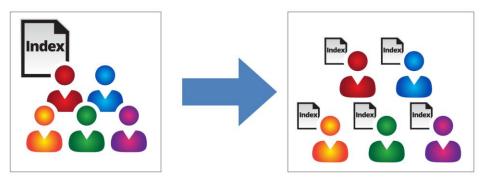
We also understand that you may wish to run backup at a specified time interval of your choice, that's why we also allow you to set your own backup schedules so that you can take full control of the time when to perform backup.

 Multi-threading – this technology utilizes the computing power of multiple CPU cores for creating multiple backup and restore threads to produce fast backup and restore performance.

Backup job uses a maximum of 4 concurrent threads.

As shown the technology translate into a total of 4 concurrent threads.

 Index File Structure – The index file structure has been re-designed to improve the backup and restore performance. Each Office 365 user will have its own individual index file instead of a single index file for all users within the backup set.



This new design eliminates any potential I/O performance bottlenecks when the index files are updated during each backup job, which can occur when using single index file structure for multi-thread concurrent backup.

 Block Level Incremental Backup – this technology breaks down the backup files into multiple blocks and only the changed blocks will be backed up each time.

Backup of Selected Items

To back up the Office 365 user accounts, the backup resources can be user level, site collection level and even item level.

- Flexible backup options:
 - Only select the required users, specific site collection or items for backup.
- Flexible restore options:
 - Restore all the users or just one user or restore the whole site collection or just one site or restore the whole user contents or just one item.

Restore items to the original location or an alternate location.

High Level of Security

We understand your Office 365 users may contain sensitive information that requires to be protected, that is why your backup data will be encrypted with the highest level of security measure.

- Un-hackable Encryption Key to provide the best protection to your backup data, you can turn on the encryption feature which will be default encrypt the backup data locally with AES 256-bit truly randomized encryption key.
- Encryption Key Recovery Furthermore, we have a backup plan for you to recover your encryption key in case you have lost it. You backup service provider can make it mandatory for you to upload the encryption key to the centralized management console, the encryption key will be uploaded in hashed format and will only be used when you request for a recovery.

Centralized Management Console

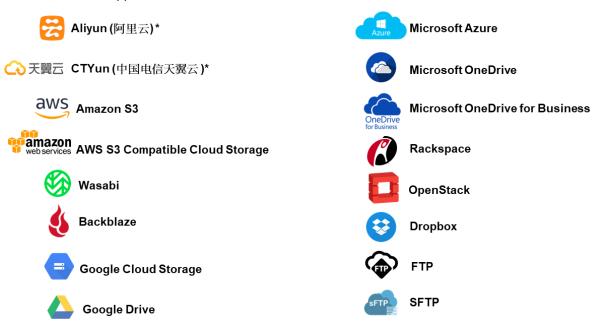
Our enriched features on the centralized web console offers you a one-stop location for monitoring and managing your backup and restore. Below is an overview of what you can do with it. For more details regarding the setup and operations of the centralized management console, refer to the <u>AhsayCBS v8 User's Guide</u> for details.

- Create/ update/ delete backup set
- Restore backup set
- Configure user settings
- Configure backup settings
- View and download backup and restore reports
- Monitor backup and restore live activities
- Monitor storage statistic

Cloud Destinations Backup

To offer you with the highest flexibility of backup destination, you can now back up Office 365 user to a wide range of cloud storage destinations. Utilizing cloud destination backup gives you an extra layer of protection in the event of a local drive corruption, where you will still be able to retrieve data from the cloud destination.

Below is a list of supported cloud destinations.



Differences between a Run-on-Client and Run-on-Server Backup Set

The following table summarizes the differences in backup options available for a Run on Server or Run on Client, and the tool to use (client agent or user web console) when performing a backup and restore:

Features/Functions	Run on Client Office 365 Backup Set	Run on Server Office 365 Backup Set
General Settings	\checkmark	\checkmark
Backup Source	\checkmark	\checkmark
Backup Schedule	\checkmark	\checkmark
Destination	AhsayCBS, Predefined Destinations, Standard and Local	AhsayCBS and Predefined Destinations only
Multiple Destinations	\checkmark	×
In-File Delta	\checkmark	\checkmark
Retention Policy	\checkmark	\checkmark
Command Line Tool	AhsayOBM for Windows only	×
Reminder	AhsayOBM / AhsayACB for Windows only	×
Bandwidth Control	\checkmark	\checkmark
IP Allowed for Restore	\checkmark	×
System Logs of Data Integrity Check and Space Freeing Up	\checkmark	×
Other	\checkmark	\checkmark
To Run a Backup	AhsayOBM / AhsayACB	AhsayCBS User Web Console only
To Run a Restore	AhsayOBM / AhsayACB / AhsayOBR	AhsayCBS User Web Console only

Aside from backup options, the table below shows other operations that can be performed using web console and client agent:

Features/Functions	Run on Client Office 365 Backup Set	Run on Server Office 365 Backup Set
Data Integrity Check	\checkmark	\checkmark
Space Freeing Up	\checkmark	\checkmark
Delete Backup Data	\checkmark	\checkmark
Decrypt Backup Data	\checkmark	×

NOTE:

For more details on the Run on Server backup option, please refer to the following guides: <u>AhsayCBS v8 User Guide – Office 365 Run on Server (Agentless) Backup and Restore Guide</u>

1.4 Why should I use AhsayOBM to backup/restore my Office 365 domain?

You may be wondering why you need to use AhsayOBM to backup/restore your Office 365. Well, people assume that Microsoft is responsible for backing up everything from your calendars and your emails to your files in SharePoint and OneDrive. As the backups performed by Microsoft are to provide a system wide recovery rather than to facilitate the recovery of individual items for the end user.

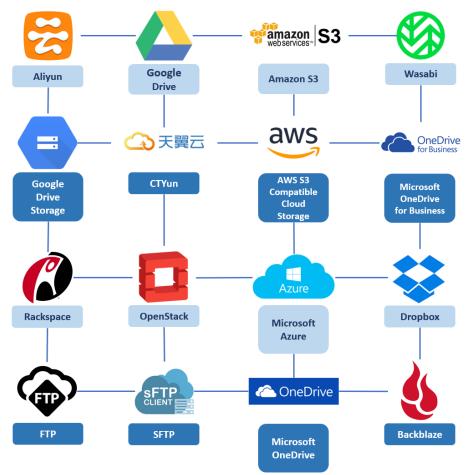
Let's take a look at some of the Microsoft's Office 365 backup capabilities and limitations

- Microsoft is only responsible for the Office 365 infrastructure and uptime of the cloud and apps with Office 365. So, if you are relying on Microsoft to protect your organization from data loss, your data and organization are at high risk if you do not implement additional data protection. These are some of the scenarios that Microsoft is responsible for on their cloud platform:
 - Hardware Failure
 - Software Failure
 - Natural Disaster
 - Power Outage
- On the other hand, Microsoft is not responsible in any of these scenarios, and you have to face the harsh reality that there's no guarantee a complete and speedy restore incase these happens:
 - Accidental Data Deletion (Human error)
 - Malicious Attacks
 - Viruses/Malware
- Microsoft has a retention policy for mailbox and public folder that are only up to 14 days to 30 days. To support this, please refer to this article for more information: <u>Microsoft: Overview of retention policy</u>.
- Microsoft has set the same limitations for SharePoint Online and OneDrive. It only stores deleted items for a period of 93 days, once you exceed the retention period, the data is gone indefinitely.
- End users do not have control over what were backed up and what can be restored.
- End users have no direct access to their backup data of their Office 365 domains/accounts.

Now, let's check the capabilities of AhsayOBM for Office 365

- AhsayOBM ensures protection from data loss, ensuring that all information in your Office 365 environment are protected to avoid disruptions to day-to-day operations.
- We offer fully flexible retention policy that can be configured by days, weekly, monthly, quarterly, years compare to Microsoft's limited retention period which is 14 to 30 days only.
- Using AhsayOBM, end user has access or control over items that will be backed up or restore, whether it is individual item, calendar entries, notes or even corrupted mailbox and more.

 AhsayOBM also provides multiple backup destinations from your Office 365 to your local machine, to any of our supported cloud destinations, and to our AhsayCBS Server.



 Flexible restore is also a key feature of AhsayOBM that is designed to have multiple restore options.

Local Machine	Restore your data to your local computer where the AhsayOBM is	
	running. Note: This option only applies to restore of items such as files, images, video, music and more from OneDrive and not items from Outlook mailbox.	
Original Location	Restore your data to the original Office 365 account.	
Alternate Location	Restore your data to an alternate location of another Office 365 account on the same domain.	
Alternate Office 365 Account	Restore your data to an alternative Office 365 that has a different domain.	

 Ahsay has automated backups and manual (on demand) backups You are also able to check the restore and backup status with corresponding backup and restore reports.

1.5 About This Document

What is the purpose of this document?

This document aims at providing all necessary information for you to get started with setting up your system for Office 365 backup and restore, followed by step-by-step instructions on creating backup set, running backup job and restoring backed up data, using AhsayOBM.

The document can be divided into 3 main parts.

Part 1: Preparing for Office 365 Backup & Restore

Requirements Requirements on hardware & software for installation

Best Practices and Recommendations Items recommended to pay attention to before backup and restore

Part 2: Performing Office 365 Backup

Logging in to Client Agent Log in to AhsayOBM

Creating a Backup Set Create a backup set using AhsayOBM

Running a Backup Set Run a backup set using AhsayOBM

Part 3: Restoring Office 365 Backup

Restoring a Backup Set using AhsayOBM Restore a backup using AhsayOBM

What should I expect from this document?

After reading through this documentation, you can expect to have sufficient knowledge to set up your system to backup Office 365 on AhsayOBM, as well as to carry out an end-to-end backup and restore process.

Who should read this document?

This documentation is intended for backup administrators and IT professionals who are responsible for the Office 365 backup and restore.

2 Preparing for Backup and Restore

2.1 Hardware Requirement

To achieve the optimal performance when AhsayOBM is running on your machine, refer to the following article for the list of hardware requirements. FAQ: Ahsay Hardware Requirement List (HRL) for version 8.1 or above

2.2 Software Requirement

Make sure the operating system where you have the Office 365 installed is compatible with the AhsayOBM. Refer to the following article for the list of compatible operating systems and application versions.

FAQ: Ahsay Software Compatibility List (SCL) for version 8.1 or above

2.3 AhsayOBM Installation

For agent-based backup and restore, make sure that the latest version of AhsayOBM is installed on your computer with Internet access for connection to your Office 365 account.

User should also stay up-to-date when newer version of AhsayOBM is released. To get our latest product and company news through email, please subscribe to our mailing list. http://www.ahsay.com/jsp/en/home/subscribe_mail_list.jsp

2.4 AhsayOBM License Requirements

AhsayOBM licenses are calculated on a per device basis:

i. To back up users with one (1) backup client computer

Example: If one AhsayOBM is installed then, one AhsayOBM license is required.

ii. To back up users with multiple backup client computers, the number of AhsayOBM licenses required is equal to the number of devices.

Example: If there are ten (10) users to be backed-up across three (3) backup client computers, then 3 AhsayOBM licenses are required.

Please contact your backup service provider for more details.

2.5 Add-on Module Requirements

Make sure that the Office 365 Backup feature has been enabled as an add-on module in your AhsayOBM user account and there is enough Office 365 Backup license quota to cover the backup of your users.

Please contact your backup service provider for more details. Below is a sample screen shot of an AhsayOBM User with an add-on module of Office 365 with 20 licenses.

User Profile	· ·	Client Settings Contact	User G	roup
Backup Set		ckup agent for this user.	03010	Toop
	Settings of the client ba	ickup agent for this user.		
Settings				
Report	Backup Client			
Statistics	AhsayOBM User	 AhsayACB User 		
Effective Policy	Add-on Modules			
	🗌 👔 Microsoft Ex	change Server	1	Microsoft SQL Server
	MySQL Data	abase Server		Oracle Database Server
	Lotus Domir	10	Lotus.	Lotus Notes
	🗌 🖸 Windows Sy	stem Backup	0	Windows System State Backup
	VMware G	uest VM 🗸 0	E B	Hyper-V Guest VM 🗸 0
	Microsoft Ex	change Mailbox 0	F	ShadowProtect System Backup
	Continuous	Data Protection	Syn	NAS - Synology
	Mobile 0			NAS - QNAP
	Volume Sha	dow Copy	✓ 🛆	In-File Delta
	🔲 🛜 OpenDirect	/ Granular Restore 0	1	Office 365 Backup 20

Please contact your backup service provider for more details.

The Ahsay licenses for the Office 365 module are calculated by the number of unique licensed or unlicensed Office 365 user accounts. If same Office 365 account is backed up on multiple backup sets with an AhsayOBM user account would be counted a one Office 365 license.

- Each licensed or unlicensed Office 365 user account selected for backup requires one Office 365 license.
- Each Equipment Mailbox, Room Mailbox, or Shared Mailbox selected for backup requires one Office 365 license.
- If just only SharePoint Sites under the Site Collections and/or files of folders under Public Folder are selected for backup, this requires only one Office 365 license.

However, if any items from either Outlook, Items from OneDrive, or Personal Sites under Users are selected for backup, the Office 365 license count will be calculated based on the number of the user account selected.

For more detailed examples about the Office 365 license requirement and usage, refer to Appendix A: Example Scenarios for Office 365 License Requirement and Usage.

2.6 Access for AhsayCBS User Web Console

It is now possible to perform agentless backup and restore, which can be done via the AhsayCBS User Web Console without using the AhsayOBM client agent. In order to access the User Web Console, make sure you have Internet connection and a web browser installed on your computer or mobile device.

2.7 Backup Quota Requirement

Make sure that your AhsayOBM user account has sufficient quota assigned to accommodate the storage of the Office 365 users for the new backup set and retention policy. Please contact your backup service provider for more details.

To get an accurate estimate of the backup quota requirement, it is recommended to check the actual usage of the Office 365 Organization in the Microsoft 365 Admin Centre. Please refer to this link: <u>Appendix J: Steps on How to view Item count and Storage used in Microsoft 365</u> Admin Center

2.8 Public Folder Backup

A licensed Exchange Administrator or a licensed user with Public Folder permission is required. Otherwise, you will not be able to access the public folder to select items for backup or restore.

2.9 SharePoint Site Backup

To be able to back up Personal Sites and/or SharePoint Sites, ensure that you use Hybrid Authentication when creating a backup set. Due to the current limitation with Microsoft API, Modern Authentication is currently not suitable for backup sets with Personal Sites and/or SharePoint Sites selected. As backup and restore of SharePoint metadata are not fully supported.

2.10 Java Heap Size

The default Java setting heap 2048M, is sufficient for Office 365 backups based on the default 4 concurrent backup threads.

The Java heap size should only be increased if the number of current backup threads is increased as more backup threads is expected to consume more memory. But this does not guarantee that the overall backup speed will be faster since there will be an increased chance of throttling.

As the value of 4 concurrent backup threads is found to be the optimal setting for Office 365 backups, to ensure best backup performance, minimal resource usage, and lowest probability of throttling of Ahsay backup requests by Microsoft Office 365.

For more detailed information on how to increase the backup thread, please refer to this link: Appendix I: Steps on How to Increase the Number of Concurrent Backup Threads.

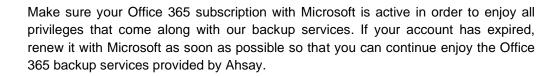
2.11 Office 365 License Requirements

Office 365 Subscription Plan

The following subscription plans with Office 365 email services are supported to run backup and restore on AhsayOBM or AhsayCBS User Web Console.

Office 365 Business	Office 365 Business Essentials
Office 365 Business Premium	Office 365 Enterprise E1
Office 365 Enterprise E3	Office 365 Enterprise E4
Office 365 Enterprise E5	Office 365 Education

• Office 365 Subscription



When your account is expired, depending on your role, certain access restrictions will be applied to your account. Refer to the URL below for more details Microsoft Office 365 Subscription Status

2.12 Office 365 Permission Requirements

The basic permissions required by an Office user account for authentication of an Office 365 backup set is as follows:

• Global Admin Role

Starting with AhsayOBM v8.3.6.0 or above, the Office 365 account used for authentication must have Global Admin Role, since Modern Authentication will be used.

This is to ensure that the authorization configuration requirements will be fulfilled (e.g. connect to Microsoft Azure AD to obtain the App Access Token). To assign the role, please refer to <u>Ch. 2.12.1</u>.

• Term Store Administrator Role

The Term Store Administrator Role may be required for backup and restore of SharePoint items. To assign the role, please refer to <u>Ch. 2.12.2</u>.

• A member of Discovery Management security group

The **Discovery Management** security group must be assigned the following roles. To assign the role, please refer to <u>Ch. 2.12.3</u>.

- ApplicationImpersonation
- Legal Hold
- Mailbox Import Export
- Mailbox Search
- Public Folders

Otherwise, proceed to grant all necessary permissions to the Office user account as shown in the following chapters <u>2.12.1</u>, <u>2.12.2</u>, <u>2.12.3</u>, <u>2.12.4</u>, and <u>2.12.5</u>.

2.12.1 Assigning Global Admin Role to Accounts

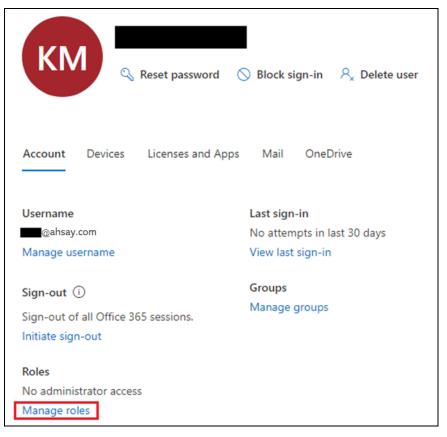
To assign the Global Admin role to accounts, follow the steps below:

i. Click the App launcher in the upper left side then click **Admin** to go to the Microsoft 365 admin center.

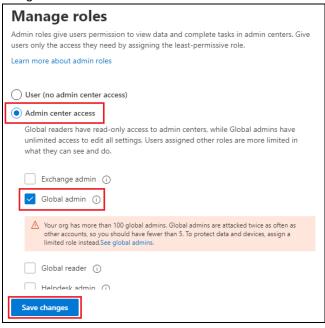
Office 365	و حر	Search	
Good	d afterno	on	
		Office 365	\rightarrow
Apps			Î
outlook	•	OneDrive	
Word	×	Excel	
PowerPc	oint 🚺	OneNote	
SharePo	int 📘	🚺 Teams	
Admin	÷		
All apps \rightarrow			

ii. In the Microsoft 365 admin center, on the left panel click **Users**. Find the user you want to assign the Global Admin role and select **Manage roles**.

	Microsoft 365 admin center	© ?
=		Ahsay Systems Corporation Limited
ώ	Home	Active users
8	Users ^	
1	Active users	① Due to a recent increase in Teams usage, when you assign a Teams license to a user it may take around 24 hours before
	Contacts	Obe to a certain increase in teams object, when you assign a reams policies to them, and they might not have access to some Teams features like calling and audio conferencing. Check status
	Guest users	some reams reatures like calling and audio conferencing. Lineck status
	Deleted users	
* *	Groups ~	Suggested actions (3)
	Billing ~	Add a user 🗄 User templates ···· ⊽ Filter 🖉 kmt 🛛 🗙 🚍
P	Setup	
8		Display name Username ↓
U	Customize navigation	KMT Test @ahsay.com
	Show all	KMT Manila 🔛 🗃 🗃 ahsay.com



iii. In the Manage roles window, select **Admin center access** then check the box beside **Global admin**. Click **Save Changes** to save the role you assigned.



2.12.2 Granting Term Store Administrator Role

To add Term Store Administrator role to the Office 365 user account used to authenticate the Office 365 backup set.

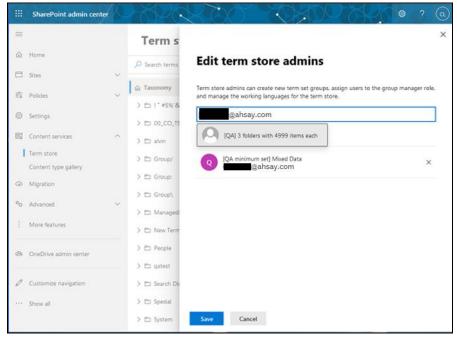
i. In the SharePoint admin center, under **Content services**, click **Term store**.

	SharePoint admin center			?	a
=			SharePoint admin center [®]		^
ធ	Home		SharePoint file activity report	Details	
	Sites	~		Details	
	Policies	~	Last 30 days as of December 13, 2020 (UTC) 20k		=
٢	Settings		Å		
Po	Content services	^	10k		
	Term store		0 0 0000 00 0 00 00 00 00 00 00 00 00 0		
	Content type gallery		• Viewed or edited • Synced • Shared internally		
ନ	Migration		 Shared externally 		
°0	Advanced	~			
:	More features		SharePoint site usage report	Details	
			Last 30 days as of December 13, 2020 (UTC)		
8	OneDrive admin center		400		
0	Customize navigation		0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	00	. .

ii. In the tree view pane on the left, select the **Taxonomy**.

	SharePoint admin center			© ? (
=		Term store		
ଇ	Home	Ø Search terms	Add term group	
=	Sites	y search terms	+_1 Add term group	
<u>.</u>	Policies	∼ Taxonomy	Term store	
۲	Settings	> E 1" #\$%'&0"+ > E 00_CO_TS	Admins	Ec
72	Content services	^ > ⊡ alvin	CT 😡 🝳 😡 🔊	Q
1	Term store Content type gallery	> 🗈 Group/		
Ð	Migration	> 🖻 Group:		
20	Advanced	> E Group\	Default language	Ec
:	More features	> 🗈 ManagedMet	English	
8	OneDrive admin center	> 🗈 People	Working languages	
	Service sector content	> 🗁 qatest	4 (

iii. In the Term store page, for Admins, select Edit. The **Edit term store admins** panel appears.



iv. Enter the names or email addresses of the Office 365 user who you want to add as term store admins. Select Save.

2.12.3 Granting Permission Discovery Management Group

This permission allows users added under the **Members** section of the **Discovery Management** group (refer to <u>Ch. 2.12.4</u> for setup) to back up and/or restore user item(s) not only for their own account, but also the accounts of other users in the same **Members** section.

i. Open https://outlook.office365.com/ecp

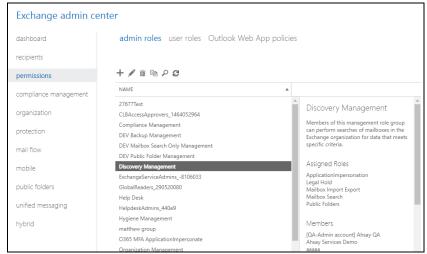
Г

ii. Log in to the **Office 365** as an account administrator.

someone@examp	ple.com	
No account? Create	one!	
Can't access your ac	count?	
Sign-in options		
	Back	Next
Microsoft		
Microsoft	ple.com	
someone@examp		
someone@examp Enter pass\	word	

www.ahsay.com

iii. Select the **permissions** menu on the left, then double click on **Discovery Management** on the right.



- iv. Click the + icon under the Roles section. These are the following roles:
 - ApplicationImpersonation
 - Legal Hold
 - Mailbox Import Export
 - Mailbox Search
 - Public Folders

*Name:		_	
Discovery Management			
Description:			
	role group can perform searches organization for data that meets		
Write scope:		2	
Default	~		
Roles:			
+ -			
NAME	*		
ApplicationImpersonation		A	
Legal Hold			
Mailbox Import Export			
Mailbox Search			
Public Folders	•	~	
Members:			
+ -			
NAME	DISPLAY NAME		
exchange-administrator-02	IQA single 15GB file in On		
	[QA-Admin account] Ahs		
ahsay.ga	[QA-Auto] christopher		
ahsay.qa christopher			
christopher			
christopher user01	[QA-DataType] user01		
christopher			
christopher user01	[QA-DataType] user01		
christopher user01	[QA-DataType] user01		
christopher user01	[QA-DataType] user01 [QA] qatest admin	ave	Cancel

v. Click Save to confirm and exit the setting.

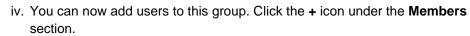
2.12.4 Granting Permission to Accounts for Creating Backup Set

- i. Open https://outlook.office365.com/ecp
- ii. Log in to the **Office 365** as an account administrator.

omeone@examp	le.com	
No account? Create o	one!	
Can't access your acc	ount?	
Sign-in options		
	Back	Next
Microsoft		
Microsoft	le.com	
someone@exampl		
someone@exampl		
someone@exampl Enter passw	vord	

iii. Select the **permissions** menu on the left, then double click on **Discovery Management** on the right.

Exchange admin center					
dashboard	admin roles user roles Outlook Web App	policies			
recipients					
permissions	+ 🖋 🖮 🖻 🔎 😅				
compliance management	NAME				
organization	27677Test CLBAccessApprovers_1464052964	A	Discovery Management		
protection	Compliance Management DEV Backup Management		Members of this management role group can perform searches of mailboxes in the Exchange organization for data that meets		
mail flow	DEV Mailbox Search Only Management DEV Public Folder Management		specific criteria.		
mobile	Discovery Management	-	Assigned Roles		
public folders	ExchangeServiceAdmins8106033 GlobalReaders_290520080	- 1	ApplicationImpersonation Legal Hold Mailbox Import Export Mailbox Search		
unified messaging	Help Desk HelpdeskAdmins 440e9		Public Folders		
hybrid	Hygiene Management	- 1	Members		
	matthew group O365 MFA ApplicationImpersonate		[QA-Admin account] Ahsay QA Ahsay Services Demo		
	Organization Management		aaaaa		



Discovery Managem	opt		
Discovery Managem	ent		
*Name:			
Discovery Management			
Description:			
Members of this management of mailboxes in the Exchange c specific criteria.			
Write scope:			
Default		~	
Roles:			
+ -			
NAME		*	
ApplicationImpersonation		^	
Legal Hold		_	
Mailbox Import Export			
Mailbox Search			
Public Folders		•	
Members:			
+ -			
NAME	DISPLAY NAME	*	
exchange-administrator-02	[QA single 15GB file in	Dn	
ahsay.qa	[QA-Admin account] A	IS	
christopher	[QA-Auto] christophe		
user01	[QA-DataType] user01		
qa.test.admin	[QA] qatest admin	-	
		Save	Cancel

 v. Look for the username(s) of the account that you would like to add permission for, then click add > OK to add the corresponding user(s) to the permission group.

AME		DISPLAY NAME	
erformance-10000mails-user0006		[QA] File100000	
erformance-10000mails-user0007		[QA] 10000mails-user0007	
erformance-10000mails-user0008		[QA] 10000mails-user0008	
erformance-3MBattachment-user0001		[QA] 3MBattachment-user0001	
erformance-3MBattachment-user0002		[QA] 3MBattachment-user0002	
erformance-3MBattachment-user0003		[QA] 3MBattachment-user0003	
erformance-3MBattachment-user0004		[QA] 3MBattachment-user0004	
erformance-3MBattachment-user0005		[QA] 3MBattachment-user0005	
erformance-3MBattachment-user0006		[QA] 3MBattachment-user0006	
erformance-3MBattachment-user0007		[QA] 3MBattachment-user0007	
erformance-3MBattachment-user0008		[QA] 20095files	
1.1.2	1 selecte	d of 500 total	
add ->			

vi. Click **Save** to confirm and exit the setting.

2.12.5 Granting Permission to restore all share link types to alternate location in Office 365

To successfully restore all share link types to alternate location of the same organization in Office 365, follow the settings below:

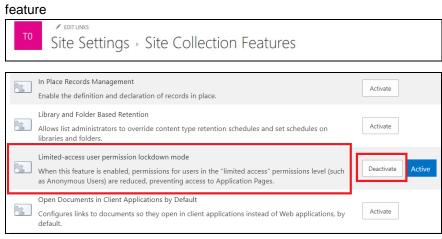
- Allowing anonymous users to access application pages
 - i. Go to the alternate Site > in the left pane, select **Site Contents** > **Site Settings**

TO Test_site_0 Public group MBI			_	★ Following ♀ 1 member
Home	+ New ~	📓 Site usage 💍 Site wo	rkflows 🔅 Site se	ettings 📋 Recycle bin (0)
Conversations				A
Documents	Contents Subsites			
Notebook				
Pages				
Site contents	🗋 Name	Туре	Items	Modified
Recycle bin	B Documents	Document library	2	4/13/2020 10:48 PM
Edit	🕫 Form Templates	Document library	0	5/28/2019 2:13 AM

ii. Go to Site Collection features

то	EDIT LINKS
то	Site Settings
	3
Home	Look and Feel
Conversatio	ns Quick launch Navigation Elements
Documents	Change the look
Notebook	
Pages	Site Actions Manage site features
Site content	
Recycle Bin	Enable search configuration export Reset to site definition
🖋 EDIT LINI	KS Site Collection Administration Recycle bin
	Search Result Sources
	Search Result Types Search Query Rules
	Search Schema
	Search Settings Search Configuration Import
	Steep
	Site collection audit settings Portal site connection Site collection app permissions Storage Metrics Content type publishing

iii. Deactivate "Limited-Access user permission lockdown mode"



- Allowing sharing to external users
 - i. Go to your Microsoft 365 Admin Center > All admin centers > in the right pane select SharePoint

III Microso	oft 365 admin center			Ф @ ?
	×	60	Power Automate	access web services, files, or cloud
Settings Setup	Ň	Q	Microsoft Search	Manage Microsoft Search settings including services and content that are available for people in your organization. Make finding internal tools, documents, and people just as easy as searching the web in Bing.
✓ Reports	~	.>	Stream	Choose how Microsoft Stream works for your organization.
🔊 Health	~	8	OneDrive	Control access and sharing settings, default storage, and allowed file types.
Admin centers	i -	*	Power Apps	View activity and manage user licenses and data policies for Power Apps, which enables users to create business apps that connect to your data and work across web and mobile.
SecurityComplian	ce	0	Security	Get visibility into your security state, investigate and protect against threats, get recommendations on how to increase your security, and more.
Azure Act	ive Directory	B	SharePoint	Manage site collections, list and library permissions, file storage and sharing.
Exchange			Dynamics 365	Use the Power Platform admin center to manage your environment, manage capacity, monitor usage and perform other
SharePoin	nt			admin operations.
🕏 Teams		ஸீ	Teams	Configure messaging, conferencing, and external communication options for your users.
All admin	centers		Yammer Enterprise	Manage your Yammer network, set a usage policy, control external network settings, and enable features like translation.

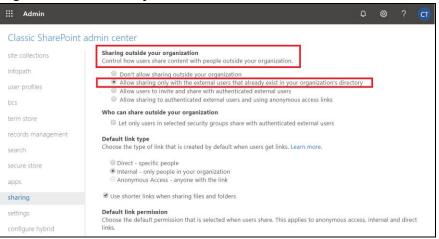
ii. Go to Sharing

iii Admin		ρ @ ? σ
Classic SharePoint ad	min center	
site collections	Site Collections	Loading
infopath	温 🗙 🐺 🤌 🦀 🧶 🌗 🔒 🔜 💿	
user profiles	New Delete Properties Owners Sharing Storage Buy Server Resource Upgrade Recycle Bin	
bcs	Contribute Manage Restore	
term store	-Autor of Officer	
records management		
search		
secure store		
apps		
sharing		
settings		
configure hybrid		
access control		
data migration		

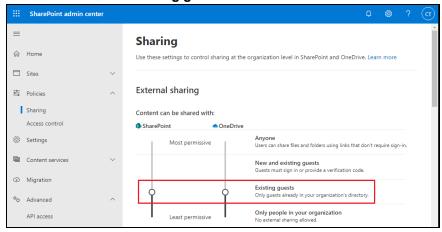
If using Classic sites view, go to Policies > Sharing.

	SharePoint admin center				Ω	🎯 ? (cr
=		Â	Active sites			
ŵ	Home		Use this page to manage all your sites. Lear	n more	206.67 GB used	of 4.42 TB
	Sites	~	+ Create ↓ Export	✓ Search sites	=	- Classic sites $ \smallsetminus $
<u>0</u>	Policies	^	URL \uparrow \checkmark	Storage used (GB) \vee	Storage limit (GB) ∨	Storage used (%)
	Sharing		UKL V	Storage used (GB)	Storage Innit (GB) V	Storage used (76)
	Access control		https://ahsay.sharepoint.com	12.44	30	41.48%
۲	Settings		/sites/15GBdataonly	0.26	200	0.13%
围	Content services	~	/sites/23599	0.00	10	0.02%
⇔	Migration		/sites/23942_Records_ori	0.00	10	0.03%
°0	Advanced	^	/sites/25394	0.00	20	0.02%

iii. Under <u>Sharing outside your organization</u>, select "Allow sharing only with the external users that already exist in your organization's directory" and click OK.



If using **Classic sites view**, under <u>External sharing</u> the button must be in line with "**Existing guests**" and click **Save**.



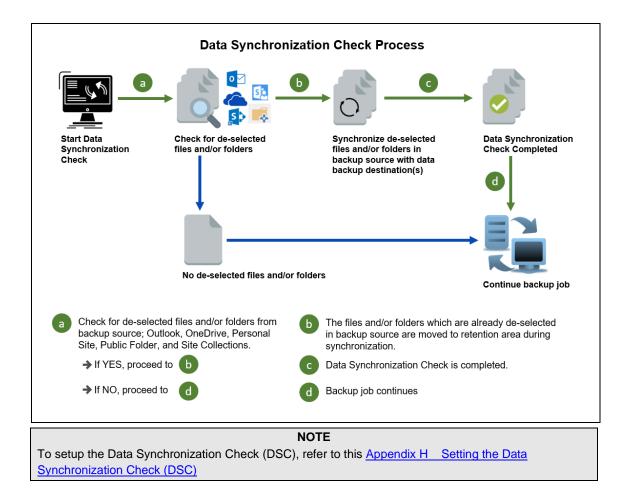
2.13 Data Synchronization Check (DSC) Setup

To compensate for the significant backup performance increase, there is a tradeoff made by the Change Key API, which skips the checking of de-selected files in the backup source, which over time can result in a discrepancy between the items or files/folders selected in the backup sources and the those in the backup destination(s). However, the Change Key API will continue to check for de-selected Office 365 user accounts or Site Collections. Unselected individual Office 365 user accounts or Site Collection detected during a backup job and will be automatically moved to retention area.

To overcome this, it is necessary in some cases to run a Data Synchronization Check (DSC) periodically. The DSC is similar to a regular Office 365 Change Key API backup job but with the additional checking and handling of de-selected files and/or folders in the backup source. So that it will synchronize the data in the backup source and backup destination(s) to avoid data build-up and the freeing up of storage quota.

	Enabled	Disabled
Backup time	Since data synchronization check is enabled, it will only run on the set interval. For example, the default number of interval is 60 days.	As data synchronization check is disabled, the backup time will not be affected.
	The backup time for the data synchronization job will take longer than the usual backup as it is checking the de-selected files and/or folders in the backup source and data in backup destination(s).	
Storage	Management of storage quota will be more efficient as it will detect items that are de-selected and moved it to retention and will be removed after it exceeds the retention policy freeing up the storage quota.	Management of storage quota will be less efficient even though files and/or folders are already de- selected from the backup source, these files will remain in the data area of backup destination(s).

Here are the pros and cons of performing the data synchronization check.



2.14 Authentication

To comply with Microsoft's product roadmap for Office 365, from AhsayOBM v8.3.6.0 or above, Basic Authentication (Authentication using Office 365 login credentials) will no longer be utilized. Instead, all new Office 365 backup sets created will use either Modern Authentication or Hybrid Authentication.

By second half of 2021, it will be a mandatory requirement for organizations still using Basic Authentication or Hybrid Authentication to migrate to Modern Authentication.

Modern Authentication provides a more secure user authentication by using app token for authentication aside from using the Office 365 login credentials. In order to use Modern Authentication, the Office 365 account is registered under Global region and the Office 365 backup is configured to use Global region. As both Germany and China region do not support Modern Authentication.

Existing backup sets using Basic Authentication created prior to AhsayOBM v8.3.6.0 can be migrated to Hybrid Authentication or Modern Authentication. However, once the authentication process is completed, the authentication can never be reverted back to Basic Authentication. For more information on how to migrate to Hybrid Authentication or Modern Authentication, please refer to <u>Appendix K: Migrating Authentication of Office 365 Backup Set</u>. After the upgrade to AhsayOBM v8.3.6.0, the backup and restore process of existing Office 365 backup sets still using Basic Authentication will not be affected during this transition period since Modern Authentication is not yet enforced by Microsoft.

In order to migrate existing backup sets to Hybrid Authentication or Modern Authentication, there are two (2) methods:

- The first method is the Office 365 account used for the backup set is assigned as the Global Admin role.
- The second method is the Office 365 account used for the backup set is an ordinary account. When changing the settings of the backup set, the user can ask an Office 365 Global Admin account to log in their credentials first to authorize the migration of authentication. This only needs to be done once per backup set.

NOTE

Please note that Modern Authentication with enabled security in Azure Active Directory (AD) will be made default if there is zero-usage on any Office 365 organization by October 2020.

To check the current authentication being used in your Office 365 backup set, see criteria below:

Basic Authentication

If you click on the backup set and the following pop up message is displayed, then the backup set is using Basic Authentication.



Modern Authentication

Go to Backup Sets > backup set name > General > Change settings.

Run on Client Offi	General Name Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username Pahsay.onmicrosoft.com Region Global • Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel

In the Office 365 credentials page, if the region is Global and the Username exists but has no password, then the backup set is using Modern Authentication.

Office 365
Username
@ahsay.onmicrosoft.com
Account password
App password (Required if Office 365 Multi-Factor Authentication is enforced)
Backup scope
O Entire organization
This Office 365 user only
Region
Global 🖌
Access the Internet through proxy

Hybrid Authentication

There is no pop up authentication alert.

Go to Backu	p Sets > back	up set name >	General >	Change settings.
-------------	---------------	---------------	-----------	------------------

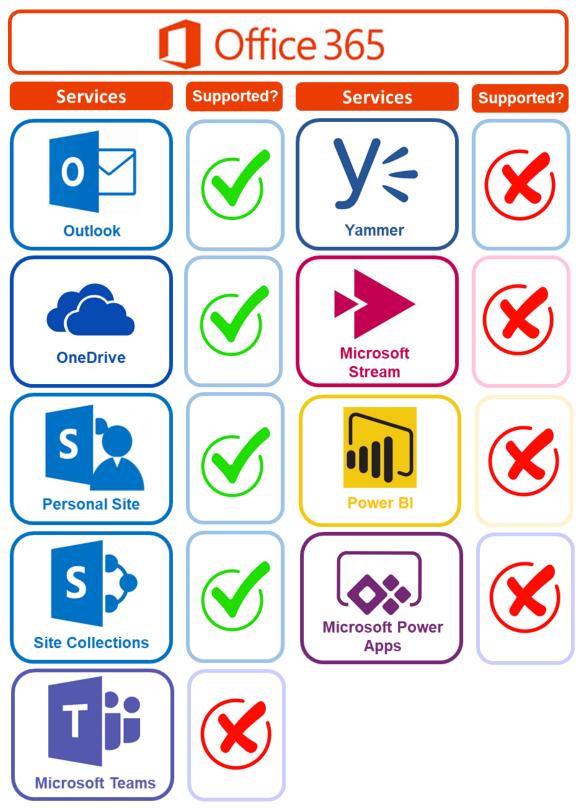
Run on Client Offi	General Name	
General	Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username Pahsay.onmicrosoft.com Region Global • Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel

In the Office 365 credentials page, if the region is Global and the Username and Account password exist, then the backup set is using Hybrid Authentication.

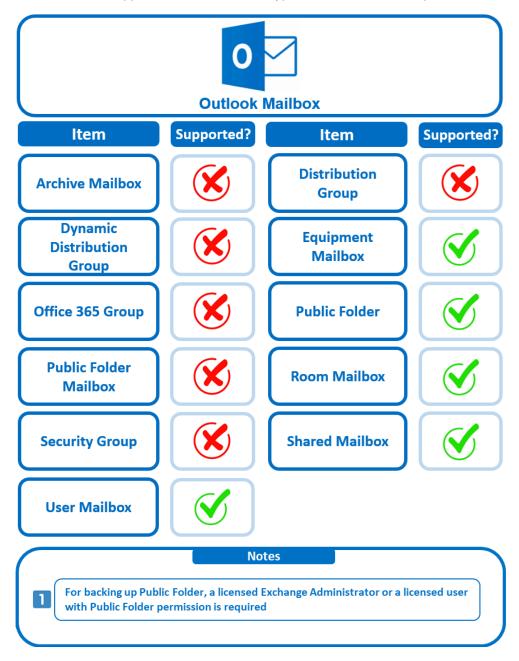
Office 365
Username
ahsay.onmicrosoft.com
Account password
•••••
App password (Required if Office 365 Multi-Factor Authentication is enforced
Backup scope
O Entire organization
This Office 365 user only
Region
Global 🗸
Access the Internet through proxy

2.15 Supported Services

Below are the supported services of Office 365 Backup module. It is also specified in the table some services that are currently not yet supported by the Office 365 Backup module.



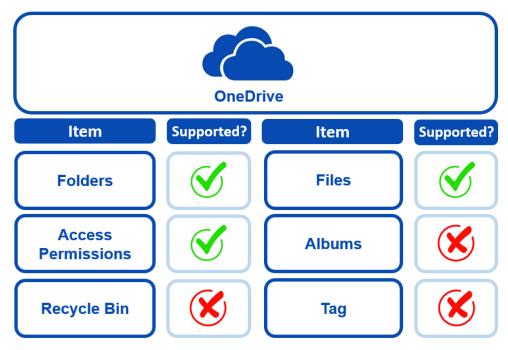
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Below are the supported Outlook Mailbox types of Office 365 Backup.



Below are the items that you can back up or restore from an Outlook mailbox.



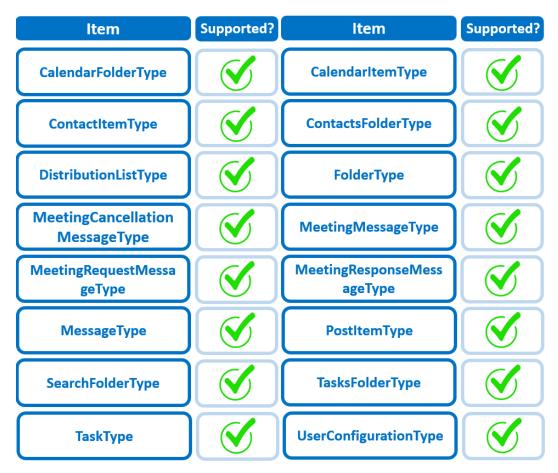
Below are the items that you can back up or restore from OneDrive.



Below are the Site Collections/Personal Site items that you can back up or restore from an Office 365 backup set.



Below are the SharePoint Site Collections template that you can back up or restore from an Office 365 backup set.



Below is the Site Column Type that you can back up or restore from an Office 365 backup set.

Below are the items from the Public Folder that you can backup and restore from an Office 365 backup set.



2.16 Maximum Supported File Size

The following table shows the maximum supported file size per item for backup and restore of each service.

Service	Maximum File Size
Outlook with or without attachments (applies to User mailbox, Room mailbox, Shared mailbox, Equipment mailbox)	150 MB
Public Folders with or without attachments	150 MB
OneDrive	8 GB
Personal Site	8 GB
Site Collections	8 GB

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2.17 Limitations

2.17.1 Ahsay Limitations

Modern Authentication

- Modern Authentication is only supported for Office 365 account that is registered in Global region and the Office 365 backup is configured to use Global region.
- Migration to Modern Authentication is not supported on an Office 365 account without a Global Admin role; or during the migration process, the Office 365 account used to authenticate the migration does not have Global Admin role.
- Backup and restore of the site features setting for SharePoint Site Collection and/or Personal Site using Modern Authentication is not supported.
- Due to limitations in Microsoft API, when using Modern Authentication, backup and restore of SharePoint Web Parts and Metadata are not fully supported.
- Backup sets using Modern Authentication do not support backup of external content types (through the linkage from selected lists).
- Backup sets using Modern Authentication do not support backup and restore of the following:
 - o Some list settings, currently known as Survey Options on survey list.
 - Feature setting for SharePoint Site and Personal Site.

SharePoint

- Document Libraries, List Items and their default Column Types will be supported, excluding customized Apps and SharePoint App Store applications.
- Most of site lists will be supported, except for certain list types that will be skipped to restore due to API limitation, for example is Microfeed in Classic Team Site.
- Site logos will NOT be restored, it is suggested revisiting the site setting page and manually add the missing images if necessary.
- User-defined workflow templates will NOT be supported for backup and restore.
- Recycle Bin will NOT be supported for backup and restore.
- Most of Site level settings will NOT be restored, except for those essential to support the successful restore of the backup items e.g. Manage Site Feature / Site Collection Feature.
- Most of List level settings (including List view) will NOT be restored, except for those essential to support the successful restore of backup items, e.g. item checkout settings. Following restore, it is suggested revisiting the relevant settings if necessary. This may affect list column ordering and visibility after restoring.
- Restoring External Data column is NOT supported if external content type has been deleted via SharePoint Designer.

- Restoring of multiple Value of managed metadata column when the key name (column name) contains space is NOT supported.
- Restoring of list with local managed metadata column to alternate location is NOT supported.
- The restore of SharePoint documents or folders with the following characters: / \ | * : " < > in item name to a Windows local computer is not supported. As Windows does not support these characters for either a file or folder name.
- Restoring Newsfeed items in Modern Team Site will not publish the items to Homepage automatically, user will need to navigate to Site Content > Page Library> click on each individual news item and "Post" the news one by one manually.
 - Backup User (except for Global Admin) may not have permission to back up the site collection even if he/she can view it in the backup source tree.
 FOR EACH site collection, the user can backup it only if he/she is assigned as a site admin of that site collection.
 - If the user is assigned as site admin of the root level site collection only, he/she is not automatically added as site admin of other site collection under that root level site collection (i.e. If user is to backup specific site collection under the root, he/she has to be added as site admin of that specific site collection under the root also).
 - For site collection that can be viewed by user in the source tree which he/she is not yet assigned as a site administrator:
 - when user expand the node of that site collection, access denied error pop up will be given.
 - when user tick such site collection to backup, access denied error will be given in the backup log.

OneDrive

- Backup and restore of file share links will be supported for OneDrive and SharePoint Documents only, and only for restore to the same Office 365 organization.
- Backup and restore of all versions will be supported for OneDrive and SharePoint Documents only, except for ".aspx" files.

Outlook

- Online Archive Mailbox will NOT be supported for backup and restore.
- For Outlook mail item, after using restore to original location to overwrite a mail item (and hence id of the mail id is changed), then
 - In the backup source tree of the same backup set:
 - the original ticked item still use the old mail id to reference and becomes red item.
 - there is another item (with the latest mail id) created for that mail item

User will need to deselect the red item and tick the mail item again in the backup source tree in order to do the next backup properly. As per development team, the issue will not be handled as user's selected source should not be modified by system.

Restore to Alternate location

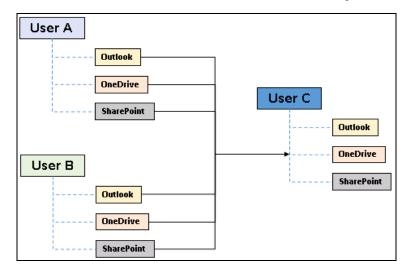
- Only administrator account or user account with administrative authority can restore backup items to an alternate location.
- If you are trying to restore item(s) from one user to an alternate location user, AhsayOBM will restore the item(s) to their respective destination folder(s) with the same name as the original folder(s).

Example: Item from Outlook of User-A will be restored to the Outlook of the alternate location User-B; Item from SharePoint of User-A will be restored to the SharePoint of the alternate location User-B.

 Restore of item(s) in public folder to an alternate location public folder is not supported.

Example: Restore of item(s) in public folder from User-A to alternate location User-B is not supported.

- When restoring to alternate location, data type "Person or Group" will not be restored. Following restore, it is suggested revisiting the relevant settings if necessary. This also affects "Assigned To" column values of some list templates (e.g. Tasks list), and "Target Audience" column values of some list templates (e.g. Content and Structure Reports).
- If you are trying to restore item(s) from several users to an alternate location user, AhsayOBM will restore the item(s) to their respective destination folder(s) in alternate location user with the same name as the original folder(s).



Example: Item from Outlook of User-A and User-B will be restored to the Outlook of the alternate location User-C.

Restore to Alternate Office 365 account

If you are trying to restore item(s) from multiple Office 365 user account to an alternate Office 365 user account, AhsayOBM can only restore one Office 365 user account at a time.

Restore to Alternate Organization

- Restoring of document library (including OneDrive) items 'Share Link to alternate organization will trigger a warning message.
- Skip to restore People and groups and Site permissions to alternate origination.

Restore data to a destination user which has a different language

If you are trying to restore the item to a destination user which has a different language setting than the original user, AhsayOBM will restore item(s) to their respective destination folder based on the translation listed below.

For folders such as 'Calendar' or 'Notes', a new folder 'Calendar' or 'Notes' will be created.

For folders in OneDrive and SharePoint, a new folder will be created.

Restore existing documents in checked-out status

Restoring of existing documents in **checked out** status is supported only when the user who has **checked out** the file is the same user who is performing the restore.

Backup source (English)	Action	Destination User with Chinese as default language settings
Inbox	Merge	收件箱
Outbox	Merge	寄件匣
Sent Items	Merge	寄件備份
Deleted Items	Merge	刪除的郵件
Drafts	Merge	草稿
Junk E-Mail	Merge	垃圾電郵
Calendar	Create new folder	Calendar
Notes	Create new folder	Notes
OneDrive Folder	Create new folder	OneDrive Folder
SharePoint Folder	Create new folder	SharePoint Folder

2.17.2 Microsoft Limitations

Exchange Online

For more detailed information on the limitations of Exchange Online, please refer to this Microsoft article, <u>Exchange Online Limits</u>. These are some of the limitations that will be discussed in the Exchange Online Limits article:

- Address book
- Mailbox storage
- Capacity alerts
- Mailbox folder
- Message
- Receiving and sending
- Retention
- Distribution group

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- Journal, Transport, and Inbox rule
- Moderation
- Exchange ActiveSync

OneDrive

For more detailed information on the limitations of OneDrive, please refer to this Microsoft article, <u>OneDrive Limits</u>. These are some of the limitations that will be discussed in the OneDrive Limits article:

- File name and path lengths
- O Thumbnails and previews
- Number of items to be synced
- Information rights management
- Oifferential sync
- Libraries with specific columns
- Windows specific limitations

SharePoint

For more detailed information on the limitations of SharePoint Online, please refer to this Microsoft article, <u>SharePoint Online Limits</u>. These are some of the limitations that will be discussed in the SharePoint Online article:

```
Limits by plan
```

Feature	Office 365 Business Essentials or Business Premium	Office 365 Enterprise E1, E3, or E5, or SharePoint Online Plan 1 or 2	Office 365 Enterprise F1
Total storage per organization ^{1, 2}	1 TB plus 10 GB per license purchased	1 TB plus 10 GB per license purchased ³	1 TB ³
Max storage per site collection ⁴	25 TB	25 TB	25 TB ⁵
Site collections per organization	1 million ⁶	1 million ⁶	1 million
Number of users	Up to 300	1- 500,000 ⁷	1- 500,000 ⁷

Service limits for all plans, such as: items in lists and libraries, file size and file path length, moving and copying across site collections, sync, versions, SharePoint groups, managed metadata, subsites, etc.

2.18 Best Practices and Recommendations

The following are some best practices or recommendations we strongly recommend you follow before you start any Office 365 backup and restore.

Temporary Directory Folder Location (For backup and restore running on AhsayOBM only)

Temporary directory folder is used by AhsayOBM for storing backup set index files and any incremental or differential backup files generated during a backup job. To ensure optimal backup/restoration performance, it is recommended that the temporary directory folder is set to a local drive with sufficient free disk space.

Performance Recommendations

Consider the following best practices for optimized performance of the backup operations:

- Enable schedule backup jobs when system activity is low to achieve the best possible performance.
- Perform test restores periodically to ensure your backup is set up and performed properly. Performing recovery test can also help identify potential issues or gaps in your recovery plan. It is important that you do not try to make the test easier, as the objective of a successful test is not to demonstrate that everything is flawless. There might be flaws identified in the plan throughout the test and it is important to identify those flaws.

Set Backup Destination

After creating the backup set-in Run-on **Client** mode on AhsayCBS user web console, please remember to login AhsayOBM to set the backup destination if you want the backup destination to be Local/ Mapped Drive/ Removable Drive.

Backup Destination

To provide maximum data protection and flexible restore options for agent-based backup, it is recommended to configure:

- At least one offsite or cloud destination
- At least one local destination for fast recovery

However, for Agentless Cloud storage there may be an impact on the backup performance.

Login AhsayOBM

After modifying the backup schedule setting of the **Run on Client** backup set on AhsayCBS user web console, please remember to login to the AhsayOBM client once to synchronize the changes immediately.

Periodic Backup Schedule

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

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

- Hardware to achieve optimal performance, compatible hardware requirements is a must. Ensure you have the backup machine's appropriate hardware specifications to accommodate frequency of backups,
 - so that the data is always backed up within the periodic backup interval
 - so that the backup frequency does not affect the performance of the production server
- Network make sure to have enough network bandwidth to accommodate the volume of data within the backup interval.
- Retention Policy also make sure to consider the retention policy settings and retention area storage management which can grow because of the changes in the backup data for each backup job.

Authentication

Although Microsoft has moved the enforcement date for Modern Authentication from end of 2020 to the second half of 2021, since this new authentication is already available starting with AhsayOBM v8.3.6.0 or above, it is recommended that backup sets be are migrated to Modern Authentication. All newly created Office 365 backup sets on AhsayOBM v8.3.6.0 or above will automatically use Modern Authentication.

However, due to the current limitation with Microsoft API, Modern Authentication is currently not suitable for backup sets with Personal Sites and/or SharePoint Sites selected. As a temporary workaround, Office 365 backup sets which require backup of Personal Sites and/or SharePoint Sites selected should be migrated to Hybrid Authentication until the issue has been resolved by Microsoft.

Large number of Office 365 users to Backup

In general, we recommend that each Office 365 backup set does not contain more than 2000 Office 365 users, to ensure a daily incremental backup job completes within 24 hours assuming that only small incremental daily changes will be made on the backup set.

However, the actual number of Office 365 users in a backup set may vary depending on the total number of Outlook, OneDrive, and SharePoint items, as well as the total size of these items. The actual number of Office 365 users in a backup set could be considerably less or could be more than 2000.

For details on the actual item count and size of Office 365 user, it is recommended to check in the Microsoft 365 Admin Centre, please refer to <u>Appendix J: Steps on How</u> to view Item count and Storage used in Microsoft 365 Admin Center.

Also, by splitting up all the users into separate backup sets, the more backup sets, the faster the backup process can achieve.

It is also a requirement that for every split backup sets should have its own unique user account for authentication to minimize the probability of throttling from Microsoft.

Example: If there are <u>10 split backup sets</u>, then there should be <u>10 unique user</u> accounts for authentication.

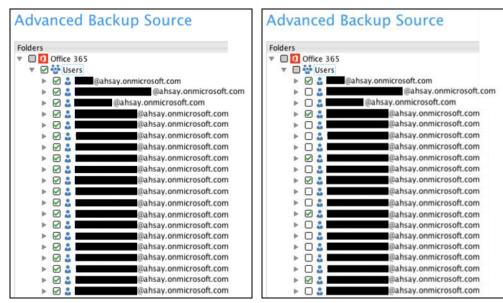
For more detailed example, refer to <u>Appendix B: Example for backup large numbers</u> of <u>Office 365 users</u>.

Concurrent Backup Thread

The value of 4 concurrent backup threads is found to be the optimal setting for Office 365 backups, to ensure best backup performance, minimal resource usage, and lowest probability of throttling of Ahsay backup requests by Microsoft Office 365.

Backup Source

For Office 365 backup sets there are two approaches for backup source selection. Below are the sample screenshots of the selection <u>All Office 365 users</u> and <u>Selective 365 user</u>.



All Office 365 users

Selective Office 365 user

All Office 365 users

If you tick the "Users" checkbox, all of the sub Office 365 user accounts will automatically be selected.

Selective Office 365 user

If you tick selective Office 365 user accounts, you will notice that the "Users" checkbox is highlighted with gray color. This indicates that not all the users are selected.



and selective Office 36		
	All Office 365 users	Selective Office 365 user
Backup Set Maintenance	The Admin does not need to manage the backup set, i.e. to select or unselect use when an Office 365 user account was added or removed, the changes are automatically updated in the backup source.	The Admin will have to select or unselect users manually when an Office 365 user account was added or removed, as the changes are not automatically updated in the backup source this can be very time consuming.
		If an Office 365 user account is removed from the domain and the admin forgets to unselect the Office 365 user account from the backup source, then this will cause a warning that the user does not exist.
		For more details on the backup set maintenance, please see, Appendix F: Example Scenario
		for Backup Set Maintenance
Office 365 License	The backup user account must have additional Office 365 license modules assigned to cover any increases Office 365 users. Otherwise, if additional users are added without sufficient modules, then this will cause backup quota exceeded warning and additional users will not be backed up.	This will allow the admin to easily control or manage the number of license modules used for the backup set.
	For more details on the computation on the required license, please see, <u>Appendix A: Example</u> <u>Scenarios for Office 365</u> <u>License Requirement and</u> <u>Usage</u>	
Backup Time	All Office 365 user accounts will be backed up. This means the initial of full backup job will take longer, any subsequent incremental backup will take longer.	Only selective Office 365 user accounts will be backed up. This will mean the initial of full backup job will be faster, any subsequent incremental backup will be faster.

These are the Pros and Cons when selecting a backup source from <u>all Office 365 users</u> and <u>selective Office 365 user</u>.

Storage	As all Office 365 user accounts	As only selective Office 365
	are backed up, more storage	user accounts will be backed
	will be required.	up, the backup set will require
		relatively less storage.

3 Logging in to AhsayOBM

Starting with AhsayOBM v8.5.0.0 there are several login scenarios depending on the setting of the account you are using. The different scenarios will be discussed below:

- Login without 2FA
- Login with 2FA using authenticator app
- Login with 2FA using Twilio

3.1 Login to AhsayOBM without 2FA

1. Log in to the AhsayOBM application user interface. Double click the AhsayOBM icon to launch the application.



2. Enter the Login name and Password of your AhsayOBM account then click OK to login.

 AhsayOBM			
		English	-
O AhsayOBM			
Login Login name macO365 Password	_		
Save password			
Forgot password			
Show advanced option	ок		

Alter Succession login, the following screater will appeal:

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

3.2 Login to AhsayOBM with 2FA using authenticator app

1. Log in to the AhsayOBM application user interface. Double click the AhsayOBM icon to launch the application.



2. Enter the **Login name** and **Password** of your AhsayOBM account then click **OK** to login.

• • •	AhsayOBM		
		English	
	AhsayOBM Login Login name		X
	macO365 Password		
	Save password Forgot password		
	Show advanced option	ОК	

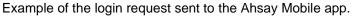
- 3. One of the two authentication methods will be displayed to continue with the login:
 - Push Notification and TOTP when using Ahsay Mobile app
 - TOTP only
 - If Ahsay Mobile app was configured to use Push Notification and TOTP then there are two 2FA modes that can be used:
 - Push Notification (default)

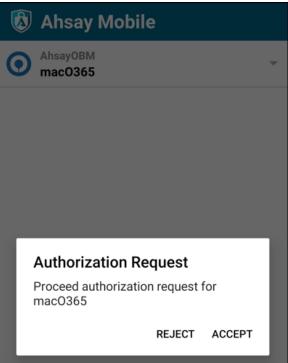
Push notification is the default 2FA mode. Accept the login request on Ahsay Mobile to complete the login.

Two-Factor Authentication

Please approve notification request in one of registered Authenticator App.

Authenticate with one-time password



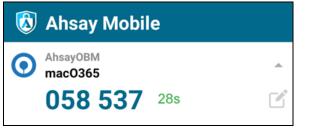


TOTP

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

Two-Fa	actor /	Auther	nticati	on		
Please appro				e of regis	tered Aut	thenticator App.
Alternatively	, input th	e one-time	e passcoc	le generat	ted in you	ur Authenticator App.
0	5	8	5	3	7	(00:00:22)

Example of the one-time passcode generated in Ahsay Mobile.



TOTP only

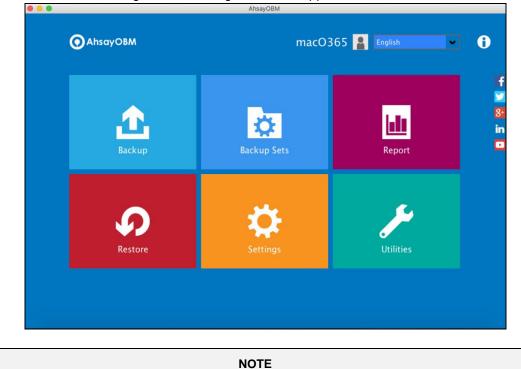
Enter the one-time passcode generated by the authenticator app to complete the login.

Two-	Factor	Auth	entica	tion		
Enter one	-time pas	scode gen	erated fro	om authei	nticator app)
3	9	8	7	7	7	(00:00:24)

Example of the one-time passcode generated in the third party authenticator app Microsoft Authenticator.

÷	鐐
AhsayOBM mac0365	
One-time passwords enabled You can use the one-time password codes generated by this app to verify your sign-ins	
One-time password code ⁽²⁵⁾ 398 777	

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



If you have trouble logging in using the authenticator app please refer to Chapter 8 of the <u>AhsayOBM Quick Start Guide for Mac</u> for more information.



3.3 Login to AhsayOBM with 2FA using Twilio

1. Log in to the AhsayOBM application user interface. Double click the AhsayOBM icon to launch the application.



2. Enter the **Login name** and **Password** of your AhsayOBM account then click **OK** to login.

• • •	AhsayOBM		
		E	inglish
	O AhsayOBM		
	Login		
	Login name		
	macO365		
	- Password		
	•••••		
	Save password Forgot password		
	Show advanced option	ОК	

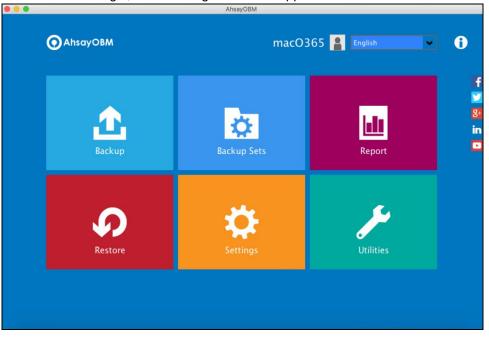
3. Select your phone number to receive the passcode.



4. Enter the passcode and click **Verify** to login.

(00:04:30)	
	(00:04:30)

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



4 Creating an Office 365 Backup Set

Starting with AhsayOBM v8.3.6.0, Basic Authentication will not be utilized anymore. Instead, there are two types of authentication that can be used in creating a backup set namely <u>Modern</u> <u>Authentication</u> or <u>Hybrid Authentication</u>.

4.1 Modern Authentication

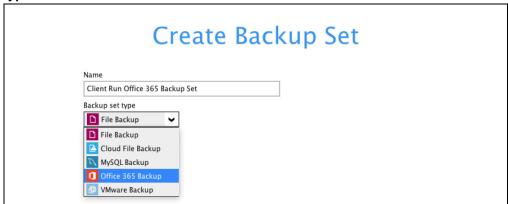
1. In the AhsayOBM main interface, click **Backup Sets**.



2. Click the "+" icon next to Add new backup set.

Backup Sets	Sort by Creation Time 🖌
Add new backup set	
	Close

3. Enter a Name for your backup set and select Office 365 Backup as the Backup set type.



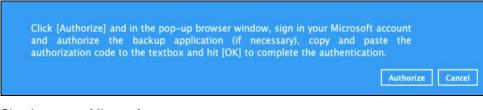
Create Backup Set	t
Name Client Run Office 365 Backup Set	
Backup set type Office 365 Backup Username	
Account password	
App password (Required if Multi-Factor Authentication is enforced)	
Region Clobal Access the Internet through proxy	
Test	

Leave the Username and Account password blank and click Test.

Click I understand the limitation and confirm to proceed.

This will be using Modern Authentication without backup or restore functionality for SharePoint Web Parts and Managed Metadata.			
	I understand the limitation and confirm to proceed		

Click Authorize to start the authentication process.



Sign in to your Microsoft account.

Microsoft		
Sign in		
@ahsay.c	onmicrosoft.com	
No account? Create or	ne!	
Can't access your acco	ount?	
Sign-in options		
	Back	Next

Microsoft	
eahsay.onmicrosot	ft.com
Enter password	
Forgot my password	
	Sign in

If MFA is enforced for the Office 365 user account used to authenticate the backup set, enter the code and click **Verify**.

Microsoft	
@ahsay.onmicrosoft.com	ı
Enter code	
We texted your phone +XX XX enter the code to sign in.	XXXXXX23. Please
083116	
Don't ask again for 14 days	
Having trouble? Sign in another way	
More information	
	Verify

NOTE The verification code is only required if the MFA status of an Office 365 account is enforced.

Copy the authorization code.



Go back to AhsayOBM and paste the authorization code. Click OK to proceed.



Test completed successfully shows when the validation is successful. Click **Next** to proceed to the next step.

	Name	
	Client Run Office 365 Backup Set	
	Backup set type Office 365 Backup	
	Username	
	@ahsay.onmicrosoft.com	
	Account password	
	App password (Required if Multi-Factor Authentication is enforced)	
	Region	
	Global 🗸	
	Access the Internet through proxy	
	✓ Test completed successfully	
	Create Backup Set	Next
Nam	Create Backup Set	Next C
	1e	Next C
Cite Back	te ent Run Office 365 Backup Set	Next
Cite Back	te ent Run Office 365 Backup Set kup set type	Next Ca
Cile Back User	ne ent Run Office 365 Backup Set kup set type Office 365 Backup 💉 mame	Next C
Cile Back User	ent Run Office 365 Backup Set kup set type Office 365 Backup v	Next C
Back User Acco	ne ent Run Office 365 Backup Set kup set type Office 365 Backup 👒 rname Calissay onmicrosoft.com	Next C
Back User Acco	ne ent Run Office 365 Backup Set kup set type Office 365 Backup e Office 365 Backup e	Next
Back User Acco App (Req Regi	ne ent Run Office 365 Backup Set kup set type Office 365 Backup e Office 365 Backup e	Next C
Cilia Back User Acco App (Req Cilo	ne ent Run Office 365 Backup Set kup set type Office 365 Backup v Office 365 Backup v	Next

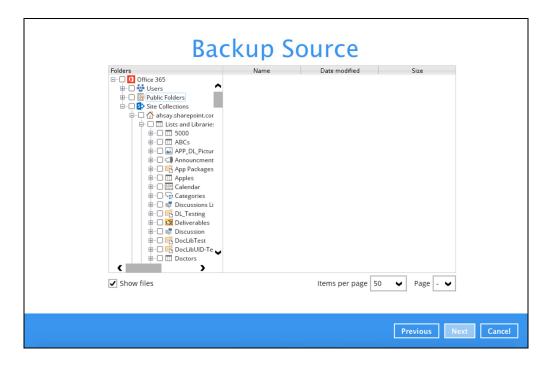
www.ahsay.com

Create Back	up Set
Name Client Run Office 365 Backup Set Backup set type Office 365 Backup v Username	
Account password Please wait	
App password (Required if Multi-Factor Authentication is enforced)	
Region Global 🛩	
✓ Test completed successfully	

4. In the **Backup Source** menu, select the desired Outlook, OneDrive, Personal Site, Public Folders or Site Collections for backup.

Backup Source				
Select the files and folders that you want to backup Image: Select the files and folders that you want to backup Image: Select the files to backup Image: Select the files to backup				
	Previous Next Cancel			

Or click **I would like to choose the files to backup** to choose the detailed files to back up. Enable the **Show files** checkbox at the bottom left corner if you would like to choose individual items for backup.

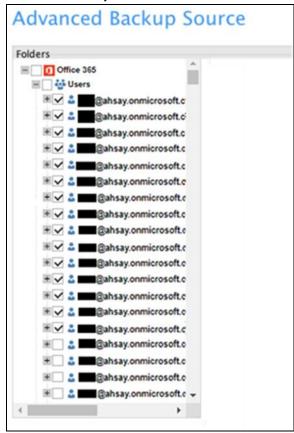


If you will select a large number of items to backup, like 1000 items, you need to click on these 1000 items to select/deselect them individually. Now there is a shortcut that you can use to lessen the burden of selecting/deselecting every 1000 item. You can select/deselect all 1000 items at once by using the Shift key. As an example, we will only show how to do this by selecting only 15 users which would fit in our screen. Follow the steps below on how to do this:

- Advanced Backup Source Folders E Office 365 🗏 🔛 👬 Users 📧 🗸 🚨 @ahsay.onmicrosoft.c * _ _ @ahsay.onmicrosoft.c * 2 @ahsay.onmicrosoft.c 🐨 📃 🚨 💽 @ahsay.onmicrosoft.c 🕷 🔜 🚨 @ahsay.onmicrosoft.c 🖷 🔄 🍰 🔤 @ahsay.onmicrosoft.c 🛞 📑 @ahsay.onmicrosoft.c * 3 ahsay.onmicrosoft.c 🛨 🔄 🚨 @ahsay.onmicrosoft.c 🕷 🔄 🚨 @ahsay.onmicrosoft.c * ____@ahsay.onmicrosoft.c * _ @ahsay.onmicrosoft.c 🟽 📃 🚨 🔤 @ahsay.onmicrosoft.c ahsay.onmicrosoft.c **H** * . @ahsay.onmicrosoft.c * 3 ahsay.onmicrosoft.c * 3 ahsay.onmicrosoft.c 🕷 🔄 🚨 @ahsay.onmicrosoft.c 🛞 🔜 💼 @ahsay.onmicrosoft.c 🖕 4.11 ۶.
- i. Select the first user.

ii. Scroll down to the 15th user.





iii. Hold the Shift key then click the 15th user. All the 15 users are now selected.

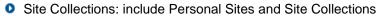
Below are example screenshots for the Users, Public Folders, and Site Collections.

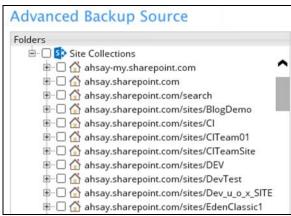
Users: include Outlook, OneDrive and Personal Sites



Public Folders: include public folders

Advance	d Backup Source
Folders	
🖃 🗌 🚺 Offic	ce 365
🖢 🗖 🐝 🛛	Jsers
🖕 🗆 🔁 🛙	Public Folders
€…□	😞 OBC Public Folder
	😞 OBC Public Folder 04
	😞 OBC public folder 02
•••••	😞 OBC public folder 03
	Rub-Test
• • • • • • • • • • • • • • • • • • •	😞 Public Folder ends with space
Ē□	Ŗ QA Public Folder 01
	Special Folders created in Outlook





 In the Schedule menu, configure a backup schedule for backup job to run automatically at your specified time interval. Slide the on/off button to turn on this feature, then click Add new schedule to add a new schedule, then click Next to proceed afterward.

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

New Backup Schedule Name Daily-1 Type Daily • Start backup at • 10 •: 06 • tevery ackup completed • Run Retention Policy after backup		
	ок	Cancel
Previou	is Next	Cancel

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

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

Backup Schedule		
Name		
Daily-1		
Type Daily •		
Start backup at v 18 v : 00 v		
Stop		
until full backup completed 🔻		
Run Retention Policy after backup		

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

Backup Schedule	
Name	
Weekly-1	
Type Weekly v	
Backup on these days of the week	Sat
Start backup at v 19 v : 00 v	
Stop	
until full backup completed 🔻	
Run Retention Policy after backup	

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

Backup Schedule		
Name		
Monthly-1		
Type Monthly Backup on the following day every month Day 1 Last Sunday V		
Start backup at		
Stop until full backup completed 🔻		
Run Retention Policy after backup		

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

Backup Schedule		
Name		
Custom-1		
Type Custom •		
Backup on the following day once		
Start backup at		
Stop		
until full backup completed 🔻		
Run Retention Policy after backup		

- Start backup the start time of the backup job.
 - at this option will start a backup job at a specific time.

every – this option will start a backup job in intervals of minutes or hours.

Start backup		Start backup			
every 🖌	1 minute	~	every 🖌	1 minute	~
Stop	1 minute	^	Stop	30 minutes	^
until full ba	2 minutes		until full ba	1 hour	
✔ Run Rete	3 minutes		🖌 Run Rete	2 hours	
	4 minutes			3 hours	
	5 minutes			4 hours	
	6 minutes			6 hours	
	10 minutes			8 hours	
	12 minutes	¥		12 hours	~

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

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

Figure 1.1

Figure 1.2

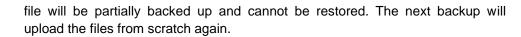
Figure 1.1 - Periodic scheduled every 4 hours Monday - Friday for business hours

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

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

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

For example, if a backup set has 100GB file size which will take approximately 15 hours to complete on your environment, but you set the "stop" after 10 hours, the



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.

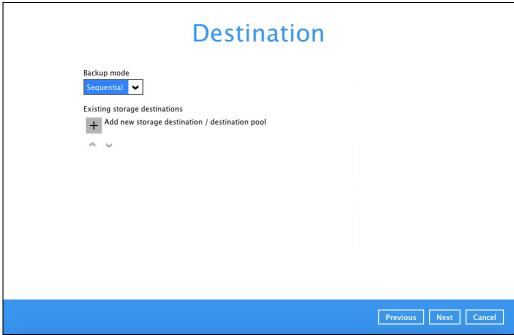
 Run Retention Policy after backup – if enabled, the AhsayOBM will run a retention policy job to remove files from the backup destination(s) which have exceeded the retention policy after performing a backup job.

Click the **[OK]** button to save the configured backup schedule settings.

Click the [Save] button to save settings and multiple backup schedules can be created.

Schedule
Run scheduled backup for this backup set On Daily-1 Daily-1 Daily (Every 4 hours) Weekly - 1 Weekly - Saturday (Every 6 hours) Monthly - The Last Weekday (Every month at 20:00) Custom -1 Custom -1 Custom -1 Add
Previous Next Cancel

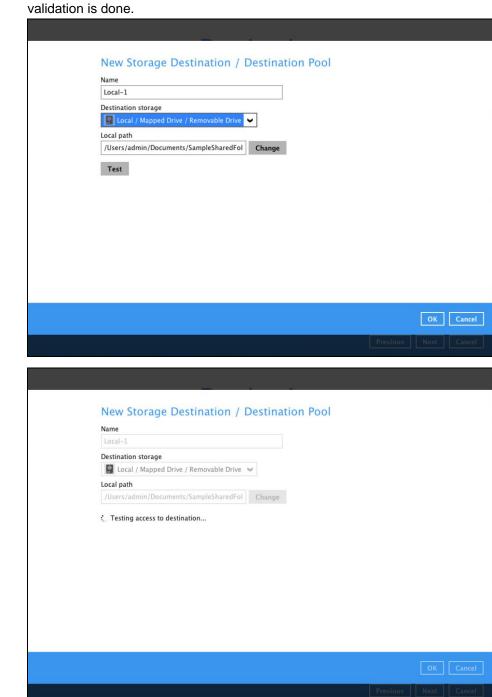
6. In the **Destination** menu, select a backup destination where the backup data will be stored. Click the "+" icon next to **Add new storage destination / destination pool**.



	N	DTE	
	e details on Backup Destination, refer id=public:800	-	
Select st	orage destinations.		
	New Storage Destination / D Name AhsayCBS Destination storage AhsayCBS AbsayCBS Wasabi-1 Local / Mapped Drive / Removable Drive AWS S3 Compatible Cloud Storage Coogle Drive	estination Pool	
			OK Cancel
			Previous Next Cancel

You can choose a storage combination of the Local/Mapped drive/Removable Drive or Cloud storage. Click **OK** to proceed when you are done with the settings.

If you have chosen the Local / Mapped Drive / Removable Drive option, click Change to browse to a directory path where backup data will be stored, then



click **Test** to validate the path. **Test completed successfully** shows when the validation is done.

Name Local-1
Destination storage
📓 Local / Mapped Drive / Removable Drive 🖌
Local path
/Users/admin/Documents/SampleSharedFol Change

If you have chosen the AWS S3 Compatible Cloud Storage, select from the destination storage then click OK. Enter the required details and click Test to validate. Test completed successfully shows when the validation is done.

Name AWSCompatible-1
Destination storage
Host Port
Access Key ID
Secret Access Key
Bucket Name (please create this bucket manually first)
Connect with SSL/TLS Access the Internet through proxy Test

New Storage Destination / Destination Pool Name AWSCompatible-1 Destination storage AWS S3 Compatible Cloud Storage V Host S3.us-west-1.wasabisys.com 443 Access Key ID N8QKJZ39ELCJ9C3CINBW Secret Access Key
Bucket Name (please create this bucket manually first) kmtmanila
Connect with SSL/TLS Access the Internet through proxy Test
OK Cancel
Previous Next Cancel
New Storage Destination / Destination Pool Name AWSCompatible-1

AWSCompatible-1				
Destination storage				
AWS S3 Compatible Cloud Storage	V			
Host		Port		
s3.us-west-1.wasabisys.com		443		
Access Key ID				
N8QKJZ39ELCJ9C3CINBW				
Secret Access Key				
00000				
Bucket Name (please create this bucket man	ually f	irst)		
kmtmanila				
Connect with SSL/TLS				
Access the Internet through proxy				
Testing access to destination				

Name AWSCompatible-1		1	
-			
Destination storage	~		
Host	Port		
s3.us-west-1.wasabisys.com	443]	
Access Key ID		7	
N8QKJZ39ELCJ9C3CINBW			
Secret Access Key		7	
•••••			
Bucket Name (please create this bucket manua	lly first)	-	
kmtmanila			
 Connect with SSL/TLS 			
Access the Internet through proxy			
 Test completed successfully 			
- Test completed successionly			

You can add multiple storage destinations. The backup data will be uploaded to all the destinations you have selected in the order you added them. Press the icon to alter the order. Click **Next** to proceed when you are done with the selection.

Destination
Backup mode Sequential Sequential Sequential Secuential
Previous Next Cancel



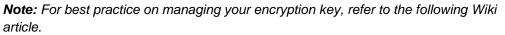
7. In the Encryption window, the default **Encrypt Backup Data** option is enabled with an encryption key preset by the system which provides the most secure protection.

	Encryption	
Encrypt Backup Data On		
Encryption Type		
Default V Default		
User password Custom		

You can choose from one of the following 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 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
Encrypt Backup Data On Encryption Type Custom Algorithm	
AES Encryption key	
Re-enter encryption key	
Method ECB CBC Key length 128-bit © 256-bit	



<u>http://wiki.ahsay.com/doku.php?id=public:5034_best_practices_for_managing_encryptio</u> <u>n_key</u>

Click Next when you are done setting.



8. If you have enabled the Encryption Key feature in the previous step, the following pop-up window shows, no matter which encryption key you have selected.

Encryption	
Encrypt Backup Data On Encryption Type Default	
You are advised to write this encryption key down on paper and in a safe place. You will need it when you need to restore your file Please confirm that you have done so.	keep it s later.
Unmask encryption key	Copy to clipboard Confirm

The pop-up window has the following three options to choose from:

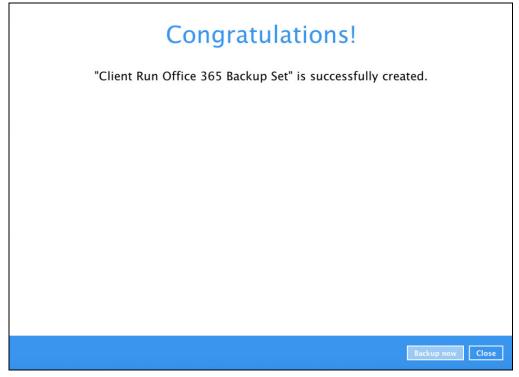
Unmask encryption key – The encryption key is masked by default. Click this option to show the encryption key.

d Confirm
•

- Copy to clipboard Click to copy the encryption key, then you can paste it in another location of your choice.
- > **Confirm** Click to exit this pop-up window and proceed to the next step.

Click **Next** to create the backup set.

9. The following screen is displayed when the new Office 365 backup set is created successfully. Click Close to go back to main screen.



10. Based on <u>Best Practices and Recommendations</u>, it is highly recommended to change the <u>Temporary Directory</u>. Select another location with sufficient free disk space other than /Users/admin//temp.

Client Run Office	Temporary Directory Temporary directory for storing backup files	
General	/Users/admin/temp	Change
Source	62.1GB free out of total 79.8GB space in /Users/admin/temp Remove temporary files after backup	
Backup Schedule	Compressions	
Destination	Select compression type	
In-File Delta	Fast with optimization for local	
Retention Policy	Encryption	
Command Line Tool	Encryption key Copy to clipboard Unmask encryption key	
Bandwidth Control	Algorithm AES Method CBC	
Others	Key length 256 bits	
Hide advanced settings		
Delete this backup set		Save Cancel

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

11. Optional: Select your preferred **Compression** type. By default, the compression is Fast with optimization for local.

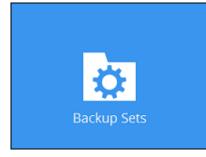
Go to Others > Compressions. Select from the following list:

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

Backup Schedule	Compressions		
Destination	Select compression type		
In-File Delta Retention Policy	Fast with optimization for No Compression Normal Fast (Compressed size lar Fast with optimization for	rger than normal)	
Command Line Tool	Algorithm AES	local	
Bandwidth Control	Method CBC		
Others Hide advanced settings	Key length 256 bi	ts	
Delete this backup set			Save Cancel

4.2 Hybrid Authentication

1. In the AhsayOBM main interface, click **Backup Sets**.



2. Click the "+" icon next to Add new backup set.

Backup Sets	Sort by Creation Time
Add new backup set	
	Close

3. Enter a **Name** for your backup set and select **Office 365 Backup** as the **Backup set type**.

Create Backup Set
Name
Client Run Office 365 Backup Set
Backup set type
🗋 File Backup 🖌
File Backup
Cloud File Backup
NySQL Backup
Office 365 Backup
😰 VMware Backup

 If MFA is not enforced, enter the Username and Account password. Select the Region and click Test.

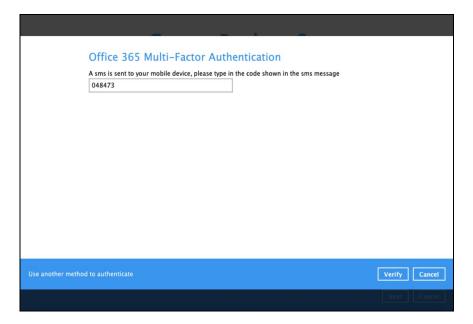


iforced)	
	nforced)

• If MFA is enforced, enter the Username, Account password and App password then click **Test**.

Create Backup Se	et
Name Client Run Offfice 365 Backup Set Backup set type Office 365 Backup 🗸	
Username @ahsay.onmicrosoft.com Account password ••••••	
App password (Required if Multi-Factor Authentication is enforced)	
Region Global Clobal Cl	
Test	Next Cance

Enter the code sent to your mobile device and click Verify.



or

If you click Use another method to authenticate link, select between Text or Call.

Office 365 Multi-Factor Authentication
Select an authentication method
Text +XX XXXXXXXXX15
Call +XX XXXXXXX15
0
Cancel
Next Cancel

• If Text is selected, enter the code sent to your mobile device and click **Verify** to proceed.

Office 365 Multi-Factor Authentication	
A sms is sent to your mobile device, please type in the code shown in the sms message 048473	
Use another method to authenticate	Verify Cancel
	Next Cancel

 If Call is selected, you will receive a call from a third-party app. From there, follow the instructions to proceed with the authentication.

Office 365 Multi-Factor Authentication	
Please answer the phone call to continue	
" Waiting for response	
Use another method to authenticate	Cancel
	Next Cancel

NOTE

- The App password is only required if the MFA status of an Office 365 account is enforced.
- If the MFA of the Office 365 user account will be enabled later on, it is highly advisable to login to AhsayOBM and re-authenticate the Office 365 user account's credential using the MFA App password. Otherwise the scheduled backups of the Office 365 backup set will stop working.

Click Authorize to start the authentication process.

Click [Authorize] and in the pop-up browser window, sign in your Microsoft account and authorize the backup application (if necessary), copy and paste the authorization code to the textbox and hit [OK] to complete the authentication.

Authorize Cancel



Sign in t	o your	Microsoft	account.
-----------	--------	-----------	----------

Microsoft		
Sign in		
@ahsay.or	nmicrosoft.com	
No account? Create one)]	
Can't access your accou	nt?	
Sign-in options		
	Back	Next
Microsoft		
_		
← @ahsay	onmicrosoft.co	om
Enter passwoi	rd	
•••••		
Forgot my password		
		Sign in

If MFA is enforced for the Office 365 user account used to authenticate the backup set, enter the code and click **Verify**.

Enter code	
We texted your phone +XX XXXXXX enter the code to sign in.	XXX23. Please
083116	
Don't ask again for 14 days	
Having trouble? Sign in another way	
More information	

NOTE

The verification code is only required if the MFA status of an Office 365 account is enforced.

Copy the authorization code.



Go back to AhsayOBM and paste the authorization code. Click OK to proceed.

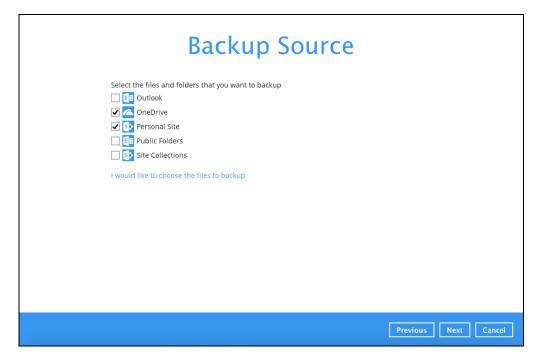


Test completed successfully shows when the validation is successful. Click **Next** to proceed to the next step.

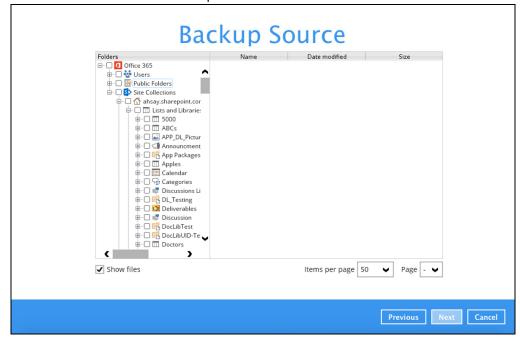
Name Client Run Offfice 365 Ba	ckup Set	
Backup set type Office 365 Backup	•	
Username @ahsay.onmicro	soft.com	
Account password		
App password (Required if Multi-Factor /	Authentication is enforced)	
Region Global 🗸		
Access the Internet thr	ough proxy	

Create Backup Set	
Name Client Run Office 365 Backup Set Backup set type Control 365 Backup Username Client Backup countercosoft coin Account password Verifying	Î
App password (Required if Multi-Factor Authentication is enforced) Region Colobal • Access the Internet through proxy • Test completed successfully	
	Next
Create Backup Set	
Name Client Run Office 365 Batkup Set Backup set type Office 365 Backup	î

4. In the **Backup Source** menu, select the desired Outlook, OneDrive, Personal Site, Public Folders or Site Collections for backup.



Or click **I would like to choose the files to backup** to choose the detailed files to backup. Enable the **Show files** checkbox at the bottom left corner if you would like to choose individual items for backup.



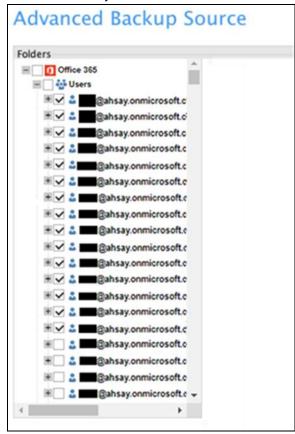
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If you will select a large number of items to backup, like 1000 items, you need to click on these 1000 items to select/deselect them individually. Now there is a shortcut that you can use to lessen the burden of selecting/deselecting every 1000 item. You can select/deselect all 1000 items at once by using the Shift key. As an example, we will only show how to do this by selecting only 15 users which would fit in our screen. Follow the steps below on how to do this:

ers	
Office	365
Use	rs
* 🗸 🕹	@ahsay.onmicrosoft.c
* 🗌 🕹	@ahsay.onmicrosoft.c
H .	@ahsay.onmicrosoft.c
± 🗆 🗉	@ahsay.onmicrosoft.c
H .	@ahsay.onmicrosoft.c
H .	@ahsay.onmicrosoft.c
* 🗆 🕹	@ahsay.onmicrosoft.c
8	@ahsay.onmicrosoft.c
*	@ahsay.onmicrosoft.c
* L 1	@ahsay.onmicrosoft.c
· ·	@ahsay.onmicrosoft.c
H	@ahsay.onmicrosoft.c
·	@ahsay.onmicrosoft.c
*	@ahsay.onmicrosoft.c
* A	@ahsay.onmicrosoft.c
H .	@ahsay.onmicrosoft.c

i. Select the first user.

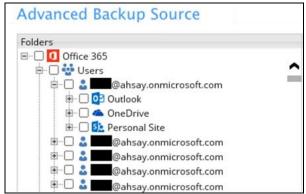
ii. Scroll down to the 15th user.



iii. Hold the Shift key then click the 15th user. All the 15 users are now selected.

Below are example screenshots for the Users, Public Folders, and Site Collections.

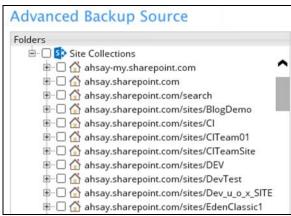
Users: include Outlook, OneDrive and Personal Sites



Public Folders: include public folders

Adva	nced Backup Source
Folders	
E 🗌 🚺	Office 365
€-C	🛛 🈳 Users
	🗌 🔠 Public Folders
E	🗄 🗆 🗔 🗾 OBC Public Folder
E	🗉 🗆 🗾 🙀 OBC Public Folder 04
E	🗄 🗆 🔜 OBC public folder 02
E	🗉 🗆 🗾 🙀 OBC public folder 03
E	🗄 🗆 🗾 🗾 Pub-Test
	🗄 🗆 🗔 醇 Public Folder ends with space
E	🗉 🗆 🗾 🙀 QA Public Folder 01
E	🗄 🗆 🗔 🞼 Special Folders created in Outlook





 In the Schedule menu, configure a backup schedule for backup job to run automatically at your specified time interval. Slide the on/off button to turn on this feature, then click Add new schedule to add a new schedule, then click Next to proceed afterward.

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

New Backup Schedule Name Daily-1 Type Daily • Start backup at • 10 •: 06 • at every ackup completed •	
	OK Cancel

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

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

Name			
Daily-1			
Type Daily •			
Start backup			
at 🔹 1	8 • : 00 •		
Stop			
until full bad	kup completed •	,	

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

Backup Schedule	
Name	
Weekly-1	
Type Weekly v	
Backup on these days of the week	Sat
Start backup at v 19 v : 00 v	
Stop	
until full backup completed 🔻	
Run Retention Policy after backup	

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

Backup Schedule
Name
Monthly-1
Type Monthly Backup on the following day every month Day 1 Last Sunday V
Start backup at
Stop until full backup completed 🔻
Run Retention Policy after backup

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

Backup Schedule
Name
Custom-1
Type Custom v
Backup on the following day once
Start backup at 21 ▼ : 00 ▼
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)			Start backup)	
every 🖌	1 minute	~		every 🖌	1 minute	~
Stop	1 minute	^		Stop	30 minutes	^
until full ba	2 minutes			until full ba	1 hour	
🖌 Run Rete	3 minutes		🖌 Run Rete	2 hours		
	4 minutes			3 hours		
	5 minutes				4 hours	
	6 minutes				6 hours	
	10 minutes				8 hours	
	12 minutes	~			12 hours	~

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

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

Figure 1.1

Figure 1.2

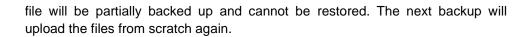
Figure 1.1 - Periodic scheduled every 4 hours Monday - Friday for business hours

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

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

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

For example, if a backup set has 100GB file size which will take approximately 15 hours to complete on your environment, but you set the "stop" after 10 hours, the



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.

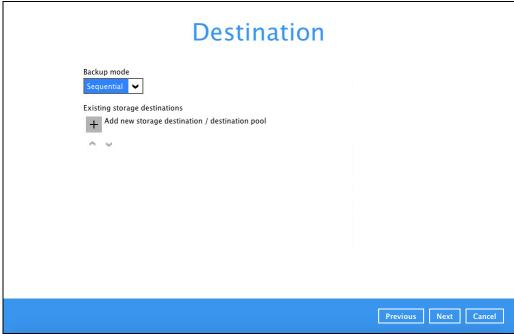
 Run Retention Policy after backup – if enabled, the AhsayOBM will run a retention policy job to remove files from the backup destination(s) which have exceeded the retention policy after performing a backup job.

Click the [OK] button to save the configured backup schedule settings.

Click the [Save] button to save settings and multiple backup schedules can be created.

Schedule
Run scheduled backup for this backup set On Daily-1 Daily-1 Daily (Every 4 hours) Weekly - 1 Weekly - Saturday (Every 6 hours) Monthly - The Last Weekday (Every month at 20:00) Custom -1 Custom -1 Custom -1 Add
Previous Next Cancel

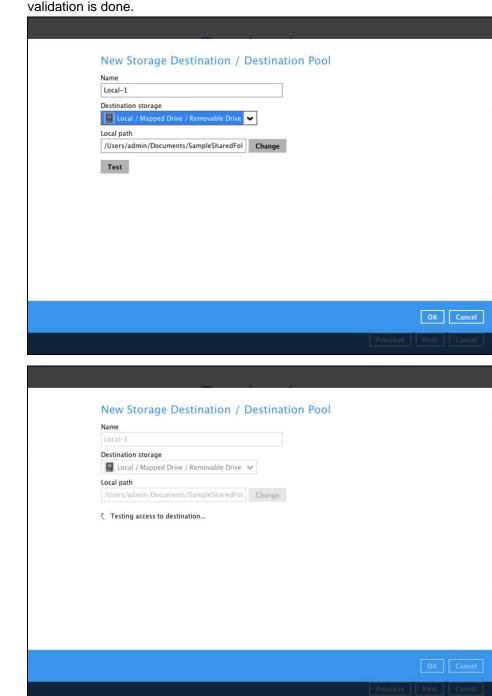
6. In the **Destination** menu, select a backup destination where the backup data will be stored. Click the "+" icon next to **Add new storage destination / destination pool**.



	NOTE	
	details on Backup Destination, refer to the following Wiki article for details: i.ahsay.com/doku.php?id=public:8002_faq:faq_on_backup_destination	
Select s	prage destinations.	
	Name AnsayCBS Contraction storage C AnsayCBS AWS S3 Compatible Cloud Storage C AnsayCBS C AnsayCBS C AnsayCBS AWS S3 Compatible Cloud Storage C AnsayCBS C AnsayCBS C AnsayCBS AWS S3 Compatible Cloud Storage C AnsayCBS C AnsayCBS </td <td></td>	
	OK Cancel	
	Previous Next Cancel	

You can choose a storage combination of the Local/Mapped drive/Removable Drive or Cloud storage. Click **OK** to proceed when you are done with the settings.

If you have chosen the Local / Mapped Drive / Removable Drive option, click Change to browse to a directory path where backup data will be stored, then



click **Test** to validate the path. **Test completed successfully** shows when the validation is done.

Name
Local-1
Destination storage
Local / Mapped Drive / Removable Drive
Local path
/Users/admin/Documents/SampleSharedFol Change

If you have chosen the AWS S3 Compatible Cloud Storage, select from the destination storage then click OK. Enter the required details and click Test to validate. Test completed successfully shows when the validation is done.

Name AWSCompatible-1
Destination storage
Host Port
Access Key ID
Secret Access Key
Bucket Name (please create this bucket manually first)
Connect with SSL/TLS Access the Internet through proxy Test

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	New Storage Destination / Destination Pool
	Name
	AWSCompatible-1
	Destination storage
	🔐 AWS S3 Compatible Cloud Storage 🗸 🗸
	Host Port
[s3.us-west-1.wasabisys.com 443
	Access Key ID
	N8QKJZ39ELCJ9C3CINBW
	Secret Access Key
	••••••
	Bucket Name (please create this bucket manually first)
	kmtmanila
[Connect with SSL/TLS
ſ	Access the Internet through proxy
	Test
	OK Cancel
	Previous Next Cancel
1	New Storage Destination / Destination Pool
Ν	Name
	AWSCompatible-1

AWSCompatible-1			
Destination storage AWS S3 Compatible Cloud Storage	~		
Host	Port		
s3.us-west-1.wasabisys.com	443		
Access Key ID			
N8QKJZ39ELCJ9C3CINBW			
Secret Access Key			

Bucket Name (please create this bucket manual	y first)		
kmtmanila			
Connect with SSL/TLS			
Access the Internet through proxy			
Testing access to destination			

ompatible-1 tion storage WS S3 Compatible Cloud Storage Port west-1.wasabisys.com Key ID Z39ELCJ9C3CINBW
WS S3 Compatible Cloud Storage Port west-1.wasabisys.com 443 Key ID
west-1.wasabisys.com 443 Key ID
Key ID
Z39ELCJ9C3CINBW
Access Key
•
Name (please create this bucket manually first)
anila
nect with SSL/TLS
ess the Internet through proxy

You can add multiple storage destinations. The backup data will be uploaded to all the destinations you have selected in the order you added them. Press the icon to alter the order. Click **Next** to proceed when you are done with the selection.

Destination	
Backup mode Sequential ♥ Existing storage destinations CBS Host: 10.23.6.69:60080 PestinationPool-1 Add	
	Previous Next Cancel

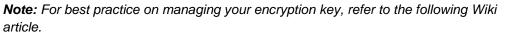
7. In the Encryption window, the default **Encrypt Backup Data** option is enabled with an encryption key preset by the system which provides the most secure protection.

	Encryption	
Encrypt Backup Data On		
Encryption Type		
Default V Default		
User password Custom		

You can choose from one of the following 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 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
Encrypt Backup Data On Encryption Type Custom Algorithm	
AES Encryption key	
Re-enter encryption key	
Method ECB CBC Key length 128-bit © 256-bit	



<u>http://wiki.ahsay.com/doku.php?id=public:5034_best_practices_for_managing_encryptio</u> <u>n_key</u>

Click Next when you are done setting.



8. If you have enabled the Encryption Key feature in the previous step, the following pop-up window shows, no matter which encryption key you have selected.

Encryption	
Encrypt Backup Data On Encryption Type Default	
You are advised to write this encryption key down on pape in a safe place. You will need it when you need to restore yo Please confirm that you have done so.	r and keep it ur files later.
Unmask encryption key	Copy to clipboard Confirm

The pop-up window has the following three options to choose from:

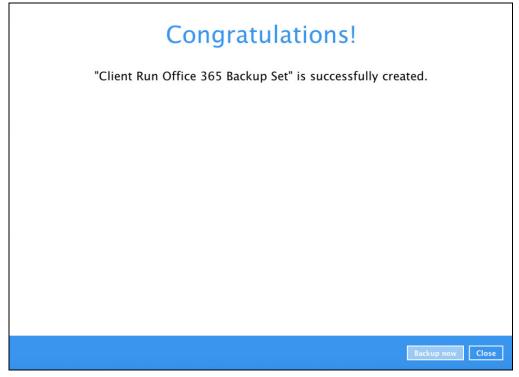
Unmask encryption key – The encryption key is masked by default. Click this option to show the encryption key.

d Confirm
•

- Copy to clipboard Click to copy the encryption key, then you can paste it in another location of your choice.
- **Confirm** Click to exit this pop-up window and proceed to the next step.

Click Next to create the backup set.

9. The following screen is displayed when the new Office 365 backup set is created successfully. Click Close to go back to main screen.



10. Based on <u>Best Practices and Recommendations</u>, it is highly recommended to change the <u>Temporary Directory</u>. Select another location with sufficient free disk space other than /Users/admin//temp.

Client Run Office	Temporary Directory Temporary directory for storing backup files			
General	/Users/admin/temp	Change		
Source	62.1GB free out of total 79.8GB space in /Users/admin/temp Remove temporary files after backup			
Backup Schedule	Compressions			
Destination	Select compression type			
In-File Delta	Fast with optimization for local			
Retention Policy	Encryption			
Command Line Tool	Encryption key Copy to clipboard Unmask encryption key			
Bandwidth Control	Algorithm AES Method CBC			
Others	Key length 256 bits			
Hide advanced settings				
Delete this backup set		Save Cancel		

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

11. Optional: Select your preferred **Compression** type. By default, the compression is Fast with optimization for local.

Go to Others > Compressions. Select from the following list:

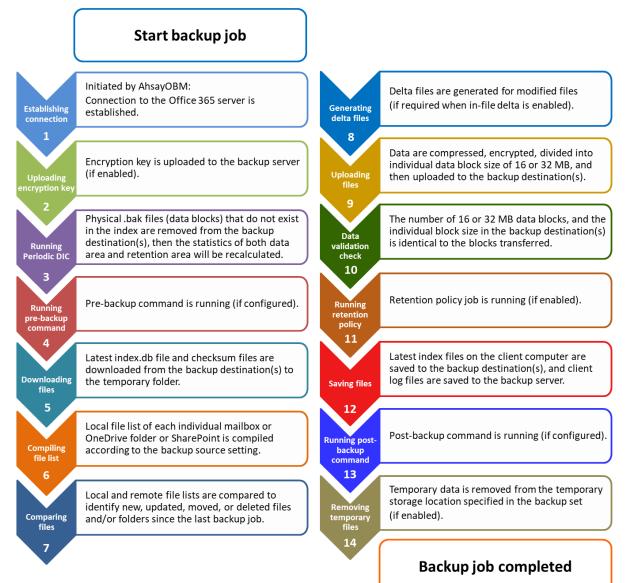
- No Compression
- Normal
- Fast (Compressed size larger than normal)
- Fast with optimization for local

Backup Schedule	Compres	sions			
Destination	Select compression type				
In-File Delta	Fast with optim	nization for local	~		
Retention Policy	Normal	sed size larger than normal)			
Command Line Tool		nization for local			
Bandwidth Control	Algorithm Method	AES CBC			
Others	Key length	256 bits			
Hide advanced settings					
Delete this backup set					Save Cancel

5 Overview of Office 365 Backup Process

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

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



5.1 Periodic Data Integrity Check (PDIC) Process

For AhsayOBM v8.3.6.0 (or above), the PDIC will run on the first backup job that falls on the corresponding day of the week from **Monday to Friday**.

To minimize the impact of the potential load of large number of PDIC jobs running at the same time on the AhsayCBS server, the schedule of a PDIC job for each backup set is automatically determined by the result of the following formula:

PDIC schedule = %BackupSetID% modulo 5 or %BackupSetID% mod 5

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

0	Monday
1	Tuesday
2	Wednesday
3	Thursday
4	Friday

NOTE: The PDIC schedule cannot be changed.

Example:

Backup set ID: 1594627447932

Calculation: 1594627447932 mod 5 = 2

2 Wednesday

In this example:

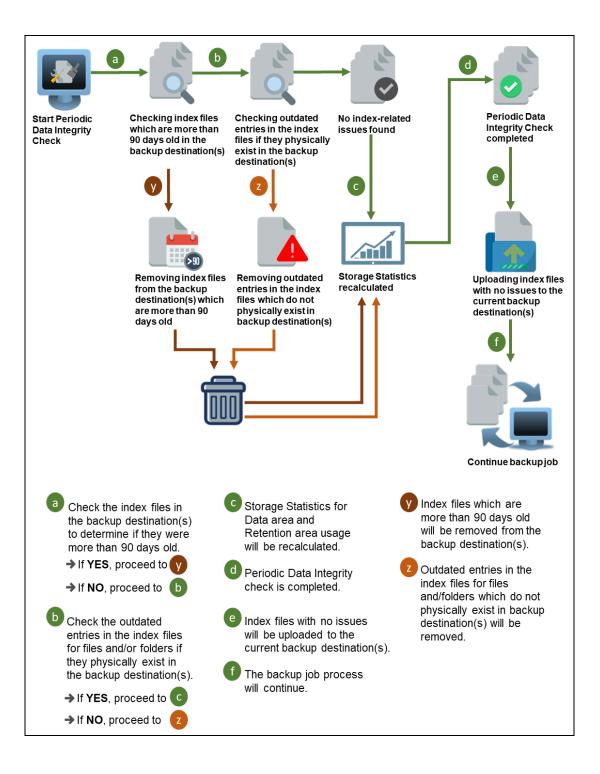
- the PDIC will run on the first backup job that falls on Wednesday; or
- if there is no active backup job(s) running from Monday to Friday, then the PDIC will run on the next available backup job.

NOTE

Although according to the PDIC formula for determining the schedule is **%BackupSetID% mod 5**, this schedule only applies if the previous PDIC job was actually run more than 7 days prior. Under certain conditions, the PDIC may not run strictly according to this formula. For example:

- 1. If AhsayOBM was upgraded to v8.5 (or above) from an older version v6, v7, or pre-8.3.6.0 version. In this case, the PDIC job will run on the first backup job after upgrade.
- 2. If backup jobs for a backup set are not run on a regular daily backup schedule (for example: on a weekly or monthly schedule), then the PDIC job will run if it detects that the previous PDIC job was run more than 7 days ago.

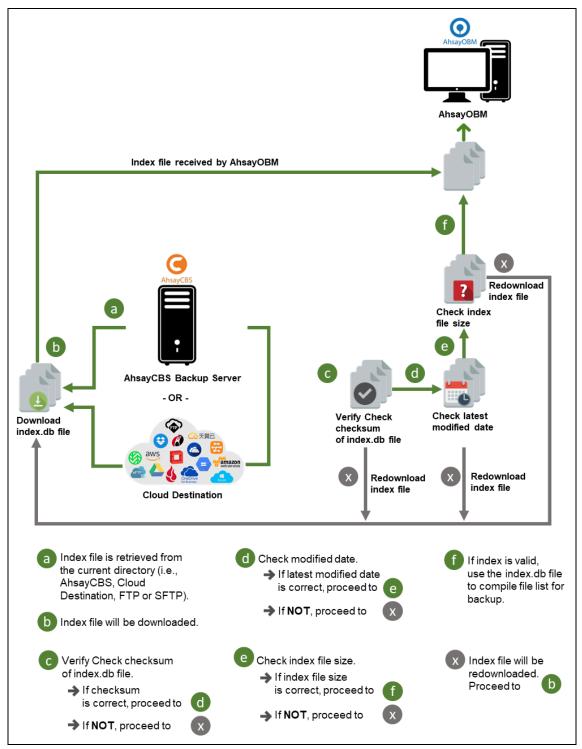
www.ahsay.com



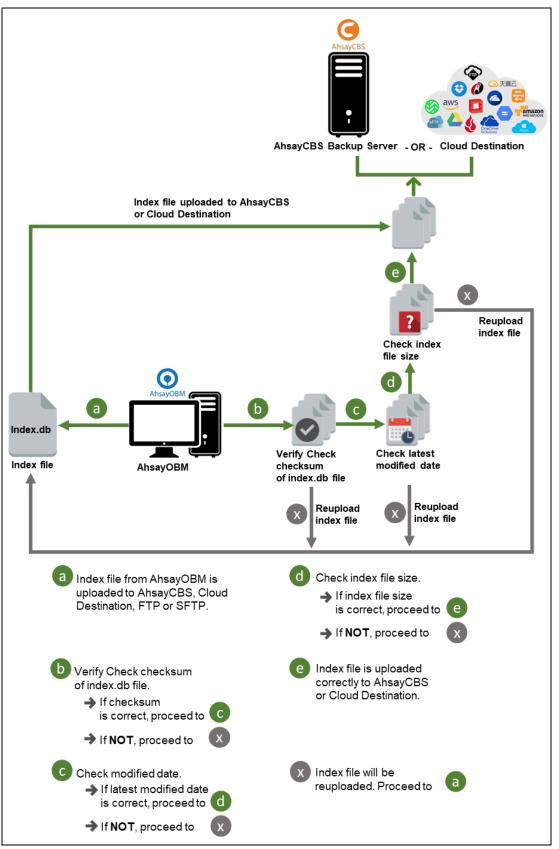
5.2 Backup Set Index Handling Process

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

5.2.1 Start Backup Job

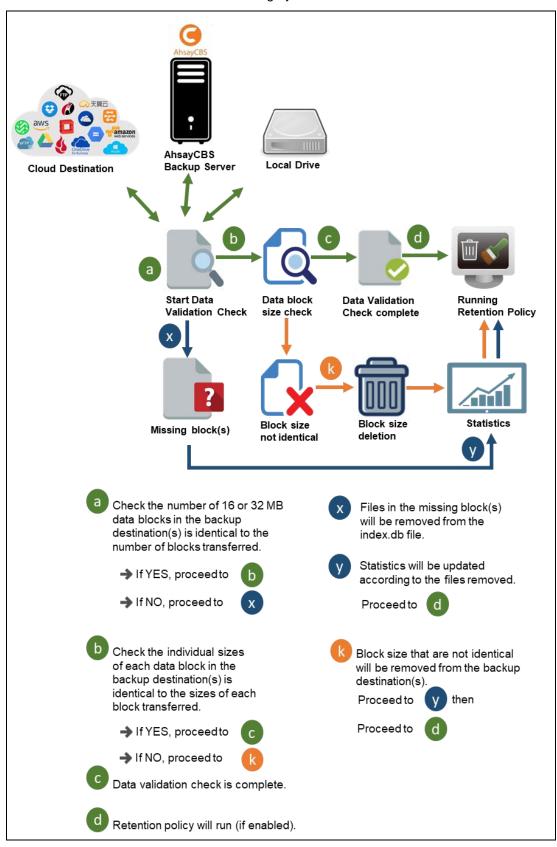


5.2.2 Completed Backup Job



5.3 Data Validation Check Process

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

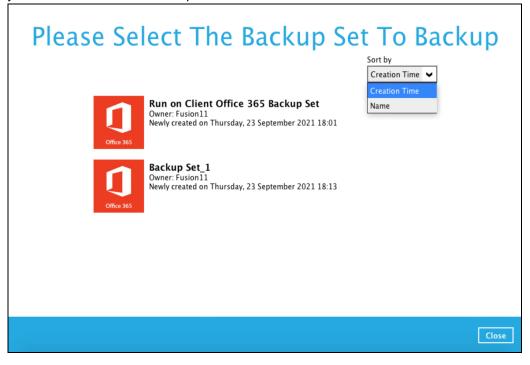


6 Running Backup Job

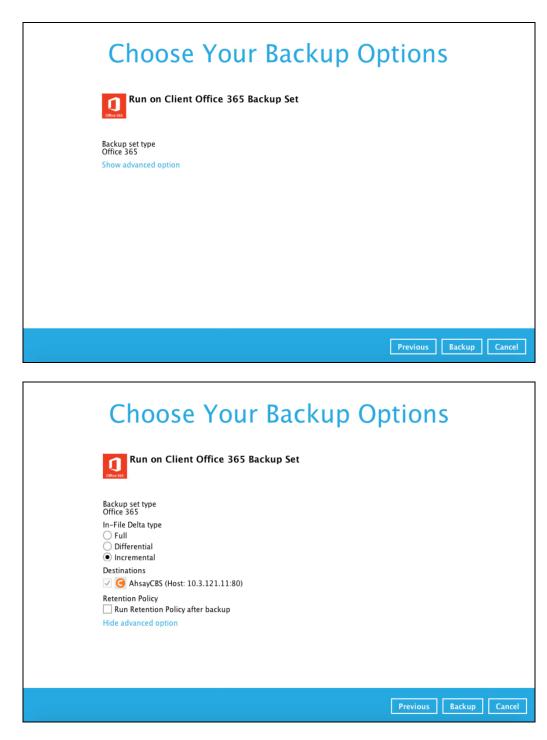
- 1. Log in to AhsayOBM according to the instructions in Logging in to AhsayOBM.
- 2. Click the **Backup** icon on the main interface of AhsayOBM.



3. Backup sets can be sorted by Name or by Creation Time. Select the backup set which you would like to start a backup for.



4. If you would like to modify the In-File Delta type, Destinations and Retention Policy Settings, click **Show advanced option**. Click **Backup** to start the backup job.



5. Wait until the backup is finished.

AhsayOBM supports Office 365 backup of individual account(s) which is not authenticated with Office 365 Admin account or without Admin permissions. To change the settings, follow the instructions below:

1. Click the Backup Sets icon on the AhsayOBM main interface.



2. Select the backup set which you would like to update.

	Backup Sets	Sort by Creation Time
Office 365	Run on Client Office 365 Backup Set Owner: OSX-1010-IP154 Newly created on Monday, 20 September 2021 11:33	
Office 365	BackupSet_1 Owner: 05X-1010-IP154 Newly created on Monday, 20 September 2021 15:11	
Add		
		Close

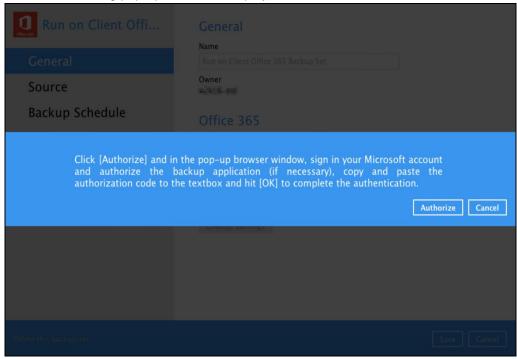
3. Click the **Change settings** button.

Run on Client Offi	General
General	Name Run on Client Office 365 Backup Set
Source Backup Schedule Destination Show advanced settings	Owner OSX-1010-IP154 Office 365 Username Image: Ima
Delete this backup set	Save

4. "This Office 365 user only" is the configured backup scope by default. Select from the two (2) options, then click **Next** to proceed.

ahsay.onn@ahsay.onn	nicrosoft.com
Account password	
•••••	
App password (Required if Office 365 Multi–	Factor Authentication is enforce
Backup scope O Entire organization This Office 365 user only	

5. When the following pop-up window is displayed, click **Authorize**.



6. Copy and paste the following authorization code to AhsayOBM, then click **OK** to continue.

AH M
Authorization Code for Microsoft 365
0.ASsA_IShkza7uEGrYiY1I1VMXiGl8nVBhARCgjmGnR;
Please copy and paste the above Authorization Code into Ahsay's product to complete the setup.

Run on Client Offi		
General	Name Run on Client Office 365 Backup Set	
Source	Owner milt blimmt	
Backup Schedule	Office 365	
authorize authorizati authentica	p-up browser window, sign in your Microsoft account and the backup application (if necessary), copy and paste the on code to the textbox and hit [OK] to complete the tion. GYYY111VMXIGI8nVBhARCgjmGnRalODtyAAA.AQABAAIAAAD	ОК Сапсеі
Delete this backup set		

7. Click **Save** to apply the settings.

Run on Client Offi	General Name
General	Run on Client Office 365 Backup Set
Source Backup Schedule	Owner
Destination Show advanced settings	Username @ahsay.onmicrosoft.com
	Region Global 💗
	Change settings
Delete this backup set	Save

7 Restoring Office 365 Backup Set

Follow the instructions below to restore the Office 365 backup to either the original location where you back them up or other users' accounts under the same Office 365 account.

7.1 Restore Backup with AhsayOBM

- 1. Login to AhsayOBM according to the instructions in Logging in to AhsayOBM.
- 2. Click the **Restore** icon on the main interface of AhsayOBM.



3. Select the backup set that you would like to restore

from.
AhsayOBM
Please Select The Backup Set To Restore
Office 365 Backup set Owner: w7-pro Lat Backup: Monday, January 07, 2019 13:31
Close

4. Select the backup destination that you would like to restore mail items to.



- 5. Select to restore from Users or Site Collections. Click Next to continue.
 - 7.1.1 From Users:

For the backup data from Users.		
AhsayOBM		
Choose Where The Items To Be Restored From	η	
Restore items from Users Site Collections		
Previous Next Cancel Help		

Select the item(s) you would like to restore. You can also choose to restore backed up file from a specific backup job of your choice using the **Select what to restore** drop-down menu at the top. Click **Next** to proceed when you are done

with the selection.

	AhsayOBM	
1	Select Your Items To Be Restored	
	Folders Name Date modified Size □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
	□ Restore to local computer Items per page 50 V Page - V Search	
	Previous Next Cancel Help	

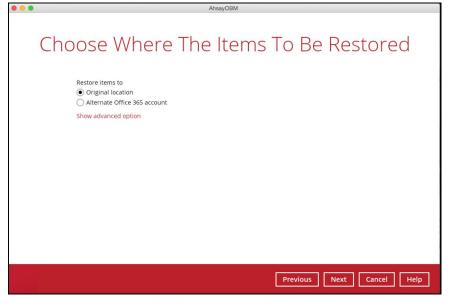
7.1.1.1 Local machine

You can also check the box of Restore to local computer to restore the items to local computer.

Select the destination you would like the mail objects to be restored.

7.1.1.2 Original location

Restore items to the original location where you backed them up.



7.1.1.3. Alternate Office 365 Account

Germany

restore items to another Office 365 account. Input the Username and Password and choose the region for the other Office 365 account and press **Test** to validate the account.

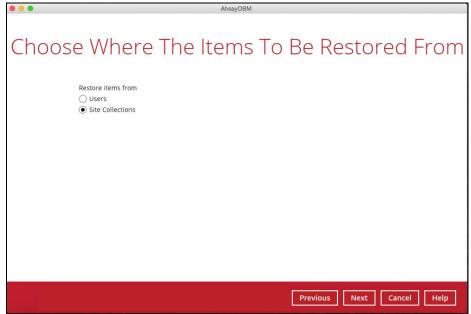
🕒 🕘 AhsayOBM	
Choose Where The Items To Be Restored	
Restore items to Original location Alternate location Alternate Office 365 account Username Bassword Password Region Global V Access the Internet through proxy Test Show advanced option	
Previous Next Cancel Help]
Region Global V Global China	

Test completed successfully shows when the validation is successful, then click **Next** to continue.

Username
@ahsay.onmicrosofLcom
Password
•••••
Region
Global 🖌
Access the Internet through proxy
 Test completed successfully

7.1.2 From Site Collections:

For the backup data from Site Collections.



Select the item(s) you would like to restore. You can also choose to restore backed up file from a specific backup job of your choice using the **Select what to restore** drop-down menu at the top. Click **Next** to proceed when you are done with the selection.

•••		AhsayOBM
Select Your Items To Be Restored		
	Folders Er O AhsayCBS L B Office 365	Name Date modified Size
	Restore to local computer	er Items per page 50 🗸 Page - 🗸
		Previous Next Cancel Help

7.1.2.1. Local machine

You can also check the box of Restore to local computer to restore the items to local computer.

Select the destination you would like the mail objects to be restored.

7.1.2.2. Original location

Restore items to the original location where you backed them up.

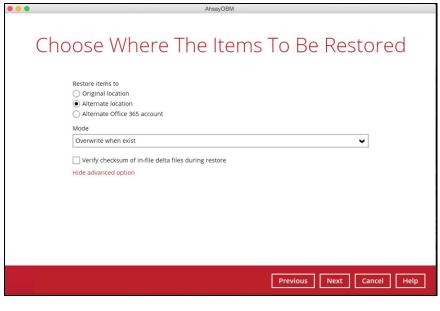
red
cel Help

Choose the restore mode and click **Next** to continue.

Mode	
Overwrite when exist	~
Overwrite when exist	
Skip when exist	

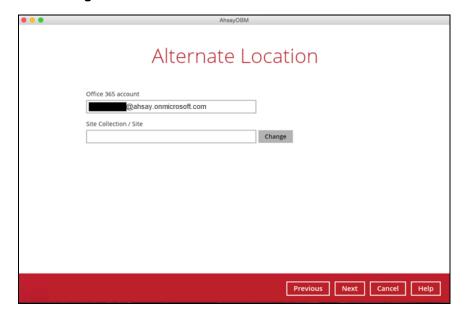
7.1.2.3. Alternate location

Restore items to other site collection or site under the same Office 365 account.



Choose the restore mode and click Next to continue.

Mode	
Overwrite when exist	~
Overwrite when exist	
Skip when exist	



Click Change to select the alternate Site Collection/ Site.

After choosing the alternate Site Collection/ Site, click **Next** to continue.

7.1.2.4. Alternate Office 365 Account

Restore items to another Office 365 account. Input the Username and Password and choose the region for the other Office 365 account and press **Test** to validate the account.

Choose Where The Items To Be Restored original location Alternate Office 365 account
Original location Alternate location
Alternate location
Alternate Office 365 account
Username
@ahsay.onmicrosoft.com
Password
•••••
Region
Global 🗸
Access the Internet through proxy
✓ Test completed successfully
Mode
Overwrite when exist
Verify checksum of in-file delta files during restore
Hide advanced option
Previous Next Cancel Help
legion Global V



Test completed successfully shows when the validation is successful, then choose the restore mode and click **Next** to continue.

Mode	
Overwrite when exist	~
Overwrite when exist	
Skip when exist	

Click **Change** to select the alternate Site Collection/ Site.

• • •	AhsayOBM
	Alternate Location
	Office 365 account @ahsay.onmicrosoft.com
	Site Collection / Site
	Change
	Previous Next Cancel Help

After choosing the alternate Site Collection/ Site, click **Next** to continue.

6. Select the temporary directory for storing temporary files, such as delta files when they are being merged, click **Restore** to start the restoration.

AhsayOBM	
Temporary Director	\checkmark
remporen y bineccor.	<i>y</i>
Temporary directory for storing restore files	
C:\Users\Administrator\temp	Browse
Previo	us Restore Cancel Help

7.2 Restore Filter with AhsayOBM

This search feature allows you to search directories, files, folders, and mails. For Office 365, these items can be search from **Users** and **Site Collections**.

- For Users, you can search **Files**, **Folders**, and **Mails**.
- For Site Collections, you can search **Directories** and **Files**.

To make it more flexible, the search feature offers filtering. You can add additional pattern upon searching. Pattern includes the following criteria:

Contains

These are Directories, Files, Folders, and Mails with the name **<u>containing</u>** the specific letter or word.

Exact

These are Directories, Files, Folders, and Mails with the exact or accurate name.

Start With

These are Directories, Files, Folders, and Mails with the name **<u>starting</u>** with a specific letter or word.

Ends With

These are Directories, Files, Folders, and Mails with the name **<u>ending</u>** with a specific letter or word.

It also has the **Match Case** function, which serves as an additional accuracy when searching for any specific directories, files, folders, and mails.

For more detailed examples using the restore filter on AhsayOBM, refer to <u>Appendix C: Example</u> <u>Scenarios for Restore Filter using AhsayOBM</u>.

- 1. Login to AhsayOBM according to the instructions in Login to AhsayOBM.
- 2. Click the Restore icon on the main interface of AhsayOBM.
- 3. Select the backup set that you would like to restore.
- 4. Select the backup destination that you would like to restore backed-up items to.
- 5. Select to restore from Users or Site Collections. Click Next to continue.

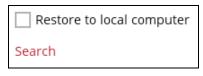
7.2.1 From Users

Choose Where The Items To Be Restored Fr	rom
Restore items from Users Site Collections 	
Previous Next Cancel	Help

Select the item(s) you would like to restore. You can also choose to restore backedup file from a specific backup job of your choice using the Select what to restore dropdown menu at the top. Click Next to proceed.

Select You	ır Items	To Be Re	estored	
Choose from files as of job	✔ 03/05/2020 ✔ La	atest 🖌		
Show filter				
Folders - O AhsayCBS - O Office 365 - O Off	Name	Date modified	Size	
Restore to local computer		Items per page 50	♥ Page - ♥	
Search				
		Prev	vious Next C	ancel Help

Click the Search located below the Restore to local computer checkbox.



Change the path if you want to restore items from other location. Click the Change button then click OK to proceed.

	Search			
1	Look in			Channer
l	Search subfolders			Change
1	Kind	Туре	Pattern	
	Files and Folders	✔ contains ✔		Match case
	Search	In Folder	Size	Date modified



Change Path ■ Backup Serveri ■ Office 365 ■ ♥ Users		
● 😳 Users ⊞- Public Folders		
	OK Can	
		icel
		icel
Change Path	Frevious Next Cancel H	eel Ole
Change Path Backup Server Backup Server Office 365 Users Backup Server Office 365 Users Backup Server Office 365 Users Backup Server Office 365 Defice 365 Defic		
Backup Server Backup Server Control 265 Backup Server Backup S		
Backup Server Backup Server Control 265 Backup Server Backup S		
Backup Server Backup Server Control 265 Backup Server Backup S		ncel

If you are going to search for specific mails, then click the Outlook to expand for more selection. In our example below, **Inbox** of **abc@ahsay.onmicrosoft.com** is selected.

Change Path
Backup Server Image: Distribution I
OK Cancel
Search
Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change
Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change Search subfolders
Office 365/Users/ Change @ahsay.onmicrosoft.com/Outlook/Inbox Change Search subfolders Kind Type Pattern
Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change Search subfolders Kind Type Pattern Mail - Subject Contains Image Match case

OR

Items per page 50

~

If you are going to search for specific files and/or folders, then click the OneDrive to expand for more selection. In our example below, **testBigFile-backup** folder in **OneDrive** is selected.

Page - 🗸

OK Cancel Help

Change Path	
Backup Server G Office 365 Users OneDrive C OnoDrive C OneDrive C OneDri	
	OK Cancel

Search				
Look in				
Office 365/Users/	@ahsay.onmicrosoft	.com/OneDrive/D913_testBigFile-back	kup Change	
Search subfolders				
Kind	Type Patt	tern		
Files and Folders 🛛 👻	contains 🖌		Match case	
Search				
Name	In Folder	Size	Date modified	
Items per page 50 V			Page - 🖌	
			ОК Са	ncel Help
		Pi	revious Next Ca	ncel Help

Tick the Search subfolders checkbox if you want to include available subfolders upon searching.

Look in	
Office 365/Users/ @ahsay.onmicrosoft.com/OneDrive/D913_testBigFile-backup	Change
Search subfolders	

ſ	Look in		
	Office 365/Users/	@ahsay.onmicrosoft.com/OneDrive/D913_testBigFile-backup	Change
	 Search subfolders 		

Select from the following kind of files you want to search.

- Files and Folders
- Files only
- Folders only
- Mail Subject
- Mail From
- Mail To
- Mail CC
- Mail BCC
- Mail Received Date
- Mail Sent Date

Look in Office 365/Users/ Search subfolde		@ahsay.onm	iicrosoft.com/Ou	tlook/Inbox		Change	
Kind Mail - Subject	~	Type contains 🗸	Pattern			Match case	
Files and Folders Files only Folders only	^	In Folder		Size	Date mod	lified	
Mail - Subject Mail - From Mail - To Mail - CC Mail - BCC	=						
Items per page 50	~				P	age - 🗸	

Select from the following type of filtering you want to search.

- Contains
- Exact
- Starts With
- Ends With

Search			
Look in			
Office 365/Users/	@ahsay.onn	nicrosoft.com/Outlook/Inbox	Change
Search subfolders			
Kind	Туре	Pattern	
Mail - Subject 🛛 👻	contains 🗸 🗸		Match case
Search	contains		
Search	exact		
Name	starts with	Size	Date modified
	ends with		
Items per page 50 🗸			Page - 🗸
			OK Cancel Help
		Previ	ous Next Cancel Help

Enter a pattern you want and Tick the Match Case checkbox if you want to accurately search for a specific file.

Kind	Туре	Pattern	
Mail - Subject	✓ contains	✔ Office 365 changes	Match case
Kind	Туре	Pattern	
Mail - Subject	✓ contains	 Office 365 changes 	✓ Match case

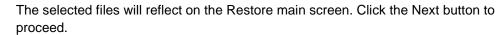
Click the Search button and the result will be displayed.

Search				
Look in				
Office 365/Users			Change	
 Search subfolders 				
Kind	Type Patter	'n		
Files and Folders	contains 🖌 arch		✓ Match cas	ie .
Search				
Name	In Folder	Size	Date modified	
Items per page 50 👻]		Page - 🖌	1
				Cancel
		L	OK Previous Next	Cancel
Search Look in	@abeay opmirg		Previous Next	
Look in Office 365/Users/	@ahsay.onmicr	osoft.com/Outlook/Inbox		
Look in	@ahsay.onmicr Type Patter	osoft.com/Outlook/Inbox	Previous Next	
Look in Office 365/Users/	Type Patter	osoft.com/Outlook/Inbox	Previous Next	Cancel
Look in Office 365/Users/ Search subfolders Kind Mail - Subject	Type Patter	osoft.com/Outlook/Inbox n	Previous Next Change	(
Look in Office 365/Users/ Search subfolders Kind	Type Patter	osoft.com/Outlook/Inbox n	Previous Next Change	Cancel

Office 365/Users/	@ahsav.o	onmicrosoft.com/Outlook/Inbox		Chan	ge
Search subfolders					
Kind	Type	Pattern			
Mail - Subject	contains V	Office 365 changes		✓ Match	cas
Weekly digest: Office 365 ch	anges Office 365/Users	@ahsay.onmicrosoft.com/Outlo	77k	05/07/2018 12:05	^
Search		In Folder	Size	Date modified	_
					^
Weekly digest: Office 365 ch					
Weekly digest: Office 365 ch					
Weekly digest: Office 365 ch			63k		
Weekly digest: Office 365 ch				07/09/2018 04:14	
Weekly digest: Office 365 ch				07/16/2018 03:44	
Weekly digest: Office 365 ch			68k		
Weekly digest: Office 365 ch					~
Weekly digest: Office 365 ch	anges Office 365/Users	@ahsay.onmicrosoft.com/Outlo	66k	05/11/2018 10:52	_
	1			Page 1/2	

Choose files by ticking each checkbox that you wanted to restore and click the OK button.

Office 365/Users/	a	ahsay.onmic	rosoft.com/Outlook/Inbox		Chan	ge
Search subfolder	s					
Kind	Тур	be	Pattern			
Mail - Subject	✓ co	ntains 🗸	Office 365 changes		✓ Match	case
Name Name Name Name Name Name Name			@ahsay.onmicrosoft.com/Outlo		Date modified 05/07/2018 12:05 05/07/2018 12:05	~
	e 365 changes	Office 365/Users/				
Weekly digest: Office			0		05/07/2018 12:05	^
Veekly digest: Office					05/07/2018 12:12 05/07/2018 12:12	
Weekly digest: Office					05/07/2018 12:06	
Weekly digest: Office					07/09/2018 04:14	
Weekly digest: Office				74k	07/16/2018 03:44	
Weekly digest: Office					05/07/2018 12:04	
U E Weekly digest: Office					05/11/2018 10:52	~
Weekly digest: Office	e 365 changes	Giffice 365/Users/	@ahsay.onmicrosoft.com/Outlo	66k	05/11/2018 10:52	
and the second se	~				Page 1/2	

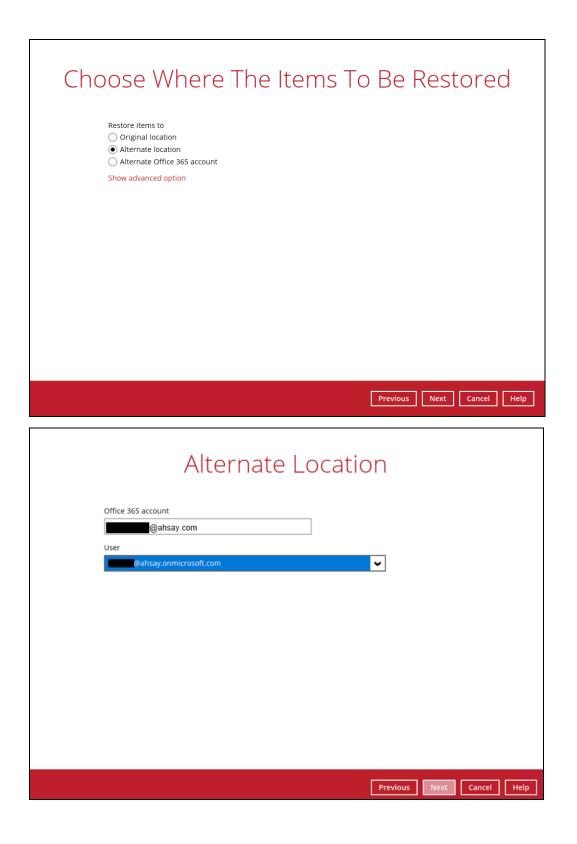


Select what to restore Choose from files as of jo) ③/05/202 Latest Show filter The second sec	Select Your It	ems To Be Restored
From Subject Received Size Folders From Streamline yo	Select what to restore	
Folders. From Subject Received Size Image: Stream in the s	Choose from files as of job 💙 03/05/2	2020 🗸 Latest 🗸
Folders From Subject Received Size ● A hasyCBS ● Microsoft Onlin 您的用银方案 03/29/2018 08 75k ● Office 365 Ø Office 365 Mess Weekly digest 04/02/2018 03 71k ● Office 365 Ø Office 365 Mess Weekly digest 04/02/2018 03 71k ● Office 365 Mess Weekly digest 04/02/2018 04 77k ● Office 365 Mess Weekly digest 04/04/2018 15 58k ● Office 365 Mess Weekly digest 04/04/2018 04 77k ● Dinbox ● Microsoft Office Your Office 36 03/09/2018 111 83k ● Dinbox ● Office 365 Mess Weekly digest 03/19/2018 03 62k ● Dinbox ● Office 365 Mess Weekly digest		
● AhsayCBS ○ Microsoft Onlin 您的月租方素 03/29/2018 08 75k ● ① Office 365 ○ Office 365 Mess Weekly digest 04/04/2018 03 71k ● ② Outlook ○ Office 365 Mess Weekly digest 04/04/2018 15 56k ● ③ Outlook ○ Office 365 Mess Weekly digest 04/04/2018 12 66k ● ③ Outlook ○ Office 365 Mess Weekly digest 04/04/2018 12 66k ● ③ Outlook ○ Office 365 Mess Weekly digest 03/09/2018 11 83k ● ③ Dutlook ○ Office 365 Mess Weekly digest 03/19/2018 04 77k ● ③ Back-up ○ Microsoft Office Your Office 36 03/09/2018 11 83k ● ③ new ④ Office 365 Mess Weekly digest 03/12/2018 03 62k ● ③ test/lefe_000 ④ Office 365 Mess Weekly digest 03/12/2018 03 67k ● ③ testing ○ Microsoft Onlin New or modifi 07/10/2018 02 63k ● ● test/123/2356 ○ Microsoft Onlin New or modifi 07/11/2018 06 64k ○ ● □ test/123/2356 ○ Microsoft Onlin New or modifi 07/11/2018 06 64k ○ ● □ Melic Folder S ○ Office 365 Mess Weekly digest 07/16/2018 20 65k ● ○ ● Public Folder S ○ Microsoft Onlin New or modifi 07/11	Show filter	
Image: Control of the set of the s	Folders	From Subject Received Size
Stramline yo 04/04/2018 15 58k Stramline yo 04/04/2018 15 66k Stramline yo 04/04/2018 15 66k Stramline yo 04/04/2018 15 66k Stramline yo 04/04/2018 11 83k Stramline yo 04/09/2018 01 7k Stramline yo 04/09/2018 01 83k Stramline yo 04/09/2018 01 62k Stramline yo 04/09/2018 01 62k Stramline yo 04/09/2018 02 63k Stramline yo 04/09/2018 02 63k Stramline yo 04/04/2018 02 63k Stramline yo 04/04/2018 02 63k Stramline yo 04/04/2018 02 62k Stramline yo 04/04/2018 02 62k Stramline yo 04/04/2018 02 62k Stramline	- G AhsayCBS	
• • • • • • • • • • • • • • •	🖮 🔲 🧕 Office 365	✓
• ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	🖮 🔲 🐝 Users	□ 🖃 Streamline yo 04/04/2018 15: 58k
• ● ● ● Outlook • ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	😑 🔲 🕹 🔤 🖉 @ahsay.onmicro	s 🗌 🖃 Office 365 Mess Message Cent 04/04/2018 22: 66k
■ = = >		
	🖨 🔲 🧾 Inbox	Microsoft Office Your Office 36 03/09/2018 11: 83k
	Back-up	Microsoft Office Your Office 36 03/09/2018 11: 83k
		C 🔄 Office 365 Mess Weekly digest: 03/12/2018 03: 62k
		C I Office 365 Mess Weekly digest: 03/19/2018 03: 67k
Image: State Stat	E-	C C Office 365 Mess Weekly digest: 03/26/2018 02: 63k
		Microsoft Onlin New or modifi 07/05/2018 02: 62k
Image: State of the state		Grice 365 Mess Weekly digest: 07/09/2018 04: 72k
□ Update Alert! 07/11/2018 15: 56k □ Office 365 Mess Weekly digest 07/16/2018 03: 74k □ Microsoft Tech 5tay connecte 07/16/2018 20: 65k □ Restore to local computer Items per page 50 ▼ 1/10+	€- 🗌 🛑 test/123/2356	
□ □ Office 365 Mess Weekly digest 07/16/2018 03 74k ↓ □ □ Microsoft Tech Stay connecte 07/16/2018 20 65k □ Restore to local computer Items per page 50 ↓ Page 1 / 10+ ↓	D Public Folders	Microsoft Onlin New or modifi 07/11/2018 06: 64k
Restore to local computer Items per page 50 Page 1 / 10+		Update Alert! 07/11/2018 15: 56k
Restore to local computer Items per page 50 Page 1 / 10+		
Restore to local computer Items per page 50 V Page 1 / 10+ V		
Search	Restore to local computer	Items per page 50 🗸 Page 1 / 10+ 🖌
Search		
	Search	

Select which location the items will be restored. Choose from the following options:

- Local machine this option is located on the Restore main screen, lower left part.
- Original location
- Alternate location
- Alternate Office 365 account

Click the Next button to proceed.

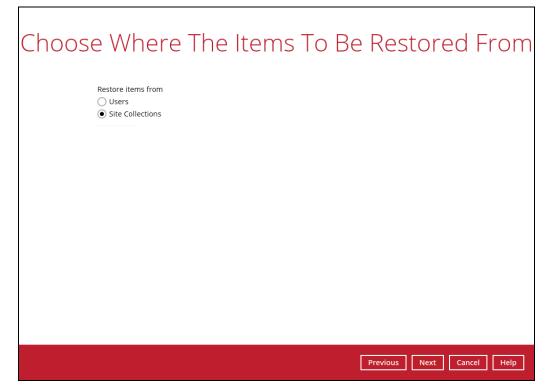


Input the temporary directory or click the Browse button to browse for the path. Click the Restore button to start.

If restore is completed, the status of the activity should be, <u>Restore Completed</u> <u>Successfully</u>.

Restore	
Client Run Office 365 Backup Set	
AbsayCBS (Host: 125.) Restore Completed Successfully Restored 203.41k (5 files) Elapsed time 1 min 47 sec Transfer rate 15.49kbit/s	۵
	Close Help



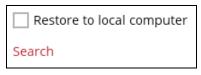


Select the item(s) you would like to restore. You can also choose to restore backedup file from a specific backup job of your choice using the Select what to restore dropdown menu at the top. Click Next to proceed.

Select You	r Items T	o Be F	Restored	
Select what to restore				
Choose from files as of job 🖌	03/05/2020 V Latest	~		
Show filter				
Folders G AhsayCBS G Office 365 ⊕-□ S Site Collections	Name	Date modified	Size	
Restore to local computer		Items per page	50 🖌 Page - 🖌	
			Previous Next	Cancel He

Click the Search located below the Restore to local computer checkbox.





Change the path if you want to restore items from other location. Click the Change button then click OK to proceed.

Search				
Look in				
			Change	1
Search subfolders				
Kind	Type Pattern			-
Files and Folders 👻	contains 🖌		Match cas	e
Search				
Name	In Folder	Size	Date modified	
			-]
Items per page 50 🗸			Page - 🗸	
			ок	Cancel Help
Change Path				
🖃 🗐 Backup Server				7
Office 365 Site Collections				

Tick the Search subfolders checkbox check if you want to include available subfolders upon searching.



OK Cancel

Search	
Look in	
Office 365/Site Collections	Change
Search subfolders	
Search	
Look in	
Office 365/Site Collections	Change
✔ Search subfolders	

Select from the following kind of files you want to search.

- Files and Directories
- Files Only
- Directories Only

Search						
Look in						
Office 365/Site Collections					Change	
Search subfolders						
Kind	Туре	Pattern				
Files and Directories 🗸	contains 🗸 🗸				Match case	
Files and Directories						
Files only						
Directories only	In Folder		Size	Date m	nodified	
Items per page 50 👻					Page - 🗸	
					OK Cancel	Help
				Previous	Next Cancel	Help

Select from the following type of filtering you want to search.

- Contains
- Exact
- Starts With
- Ends With

Search		
Look in		
Office 365/Site Collections		Change
Search subfolders		
Kind	Type Pattern	
Files and Directories 🖌	contains 🗸	Match case
Search	contains exact	
Name Items per page 50 🗸	starts with Size ends with	Date modified
		OK Cancel Help
	Pres	vious Next Cancel Help

Enter a pattern you want and Tick the Match Case checkbox if you want to accurately search for a specific file.

Kind	Туре	Pattern	
Files and Directories 🖌	contains 🗸	Documents	Match case
Kind	Туре	Pattern	
Files and Directories 🖌	contains 🖌	Documents	✓ Match case

Click the Search button and the result will be displayed.

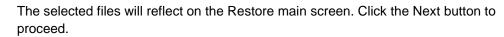
Searc	ch						
Look in							
Office	365/Site Collections	5				Change	
✓ Sear	ch subfolders						
Kind		Туре	Pattern				
Files an	nd Directories 👻	contains 🗸	Documents			 Match case 	
Searc	h						
	Name	In Folder		Size	Date r	nodified	
ltems p	er page 50 🗸					Page - 🖌	
						OK Cancel	Help
Searc	ch						
Sear	ch						
Look in	Ch 365/Site Collections	5				Change	
Look in Office		5				Change	
Look in Office	365/Site Collections ch subfolders	туре	Pattern				
Look in Office Sear Kind	365/Site Collections ch subfolders		Pattern Documents			Change	
Look in Office Sear Kind	365/Site Collections ch subfolders nd Directories ♥	Туре					
Look in Office Sear Kind Files a	365/Site Collections ch subfolders nd Directories ♥	Type contains 🖌		Size			
Look in Office Sear Kind Files an	365/Site Collections ch subfolders nd Directories ♥	Type contains V Stop		Size		Match case	
Look in Office Sear Kind Files au Searchin	365/Site Collections ch subfolders nd Directories ♥	Type contains V Stop		Size		Match case	
Look in Office Sear Kind Files au Searchin	365/Site Collections ch subfolders nd Directories V ng Name	Type contains V Stop		Size		Match case	Help

Search			
Look in			
Office 365/Site Collec	ctions		Change
 Search subfolders 			
Kind	Туре	Pattern	
Files and Directories	✓ contains ✓	Documents	✓ Match case
Search			
Name Name Name Name Notements Notem	Office 365/Site Collections/D Office 365/Site Collections/D	In Folder Size 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 901_ahasy.sharepoint.com%2/fsites%2/ftest 17M 901_ahasy.sharepoint.com%2/fsites%2/ftest 17M	05/02/2019 07:24 05/02/2019 07:24 05/02/2019 07:24 05/02/2019 07:24 05/02/2019 07:24 05/02/2019 07:24
			ОК

Choose files by ticking each checkbox that you wanted to restore and click the OK button.

Look in					
Office 365/Site Colle	ctions	5			Change
Search subfolder	s				
Kind		Туре	Pattern		
Files and Directories	• •	contains 🖌	Documents		✓ Match case
Search					
Name	Offic	e 365/Site Collections/D9	In Folder 01_ahsay.sharepoint.com%2fsites%2ftes	Size	Date modified
My Documents			01 ahsay.sharepoint.com%2fsites%2ftes		^
Ocuments01.pdf			01_ahsay.sharepoint.com%2fsites%2ftes		05/02/2019 07:24
Documents02.pdf	Offic	e 365/Site Collections/D9	01_ahsay.sharepoint.com%2fsites%2ftes	17M	05/02/2019 07:24
🗹 💿 Documents03.pdf	Offic	e 365/Site Collections/D9	01_ahsay.sharepoint.com%2fsites%2ftes	17M	05/02/2019 07:24
🗹 💿 Documents04.pdf	Offic	e 365/Site Collections/D9	01_ahsay.sharepoint.com%2fsites%2ftes	17M	05/02/2019 07:24
🗹 💿 Documents05.pdf			01_ahsay.sharepoint.com%2fsites%2ftes		05/02/2019 07:24
🗌 💿 Documents06.pdf			01_ahsay.sharepoint.com%2fsites%2ftes		05/02/2019 07:24
Documents07.pdf			01_ahsay.sharepoint.com%2fsites%2ftes		05/02/2019 07:24
Occuments08.pdf	Offic	e 365/Site Collections/D9	01_ahsay.sharepoint.com%2fsites%2ftes	17M	05/02/2019 07:24
Items per page 50	~				Page 1/2 🗸

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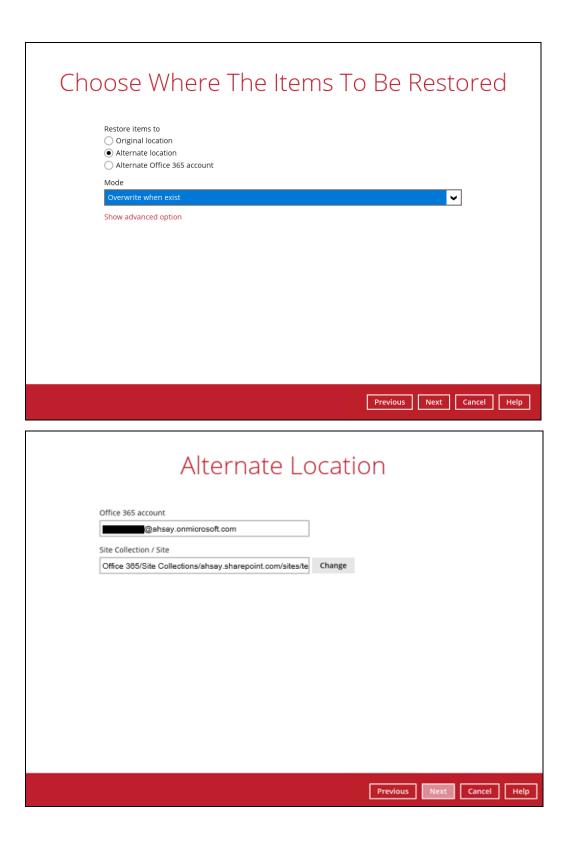


			tored
Select what to restore			
Choose from files as of job V 03/05/2020) 🗸 Latest 🗸		
Show filter			
Folders	Name	Date modified	Size
⊡ G AhsayCBS	🗹 🏮 Documents01.pdf	05/02/2019 07:24	17M
🖮 🔲 💶 Office 365	🗹 🌍 Documents02.pdf	05/02/2019 07:24	17M 🔦
🗄 🔲 🚯 Site Collections	🗹 🏮 Documents03.pdf	05/02/2019 07:24	17M
🖮 🔲 斺 ahsay.sharepoint.com/sites/test	🗹 🏮 Documents04.pdf	05/02/2019 07:24	17M
🖻 🔲 🛄 Lists and Libraries	🗹 🏮 Documents05.pdf	05/02/2019 07:24	17M
🖮 🔲 🖪 Documents	🗌 🏮 Documents06.pdf	05/02/2019 07:24	17M
🖨 🔲 🛑 Testing files	🗌 💿 Documents07.pdf	05/02/2019 07:24	17M
🔲 📕 My Documents	🗌 💿 Documents08.pdf	05/02/2019 07:24	17M
👜 🗆 🥅 Photos	🗌 💿 Documents09.pdf	05/02/2019 07:24	17M
	Ocuments10.pdf	05/02/2019 07:24	17M
	Ocuments11.pdf	05/02/2019 07:24	17M
	Ocuments12.pdf Ocuments12.pdf	05/02/2019 07:24	17M
	Occuments13.pdf Occuments14.pdf	05/02/2019 07:25 05/02/2019 07:25	17M 17M
	Occuments14.pdf Occuments15.pdf	05/02/2019 07:25	17M
	Occuments15.pdf Occuments16.pdf	05/02/2019 07:25	17M
	Occuments17.pdf	05/02/2019 07:25	17M ¥
Restore to local computer	Items per	page 50 🗸	Page 1/2 ▼

Select which location the items will be restored. Choose from the following options:

- Local machine this option is located on the Restore main screen, lower left part.
- Original location
- Alternate location
- Alternate Office 365 account

Click the Next button to proceed.



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Input the temporary directory or click the Browse button to browse for the path. Click the Restore button to start.

If restore is completed, the status of the activity should be, <u>Restore Completed</u> <u>Successfully</u>.

Restore	
Client Run Office 365 Backup Set	
AbsayCBS (Host: 125. Restore Completed Successfully Restored 74.44M (17 files) Elapsed time 7 min 6 sec Transfer rate 1.49Mbit/s	
	Cancel Help

8 Contacting Ahsay

8.1 Technical Assistance

To contact Ahsay support representatives for technical assistance, visit the following website: https://www.ahsay.com/jsp/en/contact/kbQuestion.jsp

Also use the Ahsay Wiki for resource such as Hardware Compatibility List, Software Compatibility List, and other product information: <u>http://wiki.ahsay.com/doku.php?id=public:home</u>

8.2 Documentation

Documentations for all Ahsay products are available at: https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documen tation_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: Example Scenarios for Office 365 License Requirement and Usage

Scenario No. 1: Backing up Office 365 user accounts in multiple backup sets

The required Office 365 licenses are calculated by the number of Office 365 user accounts that you want to backup.

Example No. 1: To back up one (1) Office 365 user account on multiple backup sets, only one Office 365 license is needed.

Backup Set Name	Office 365 User Account
Backup Set A	user01@company-office365.com
Backup Set B	user01@company-office365.com
Backup Set C	user01@company-office365.com

Example No. 2: To back up two (2) Office 365 user accounts on multiple backup sets, two Office 365 licenses are needed.

Backup Set Name	Office 365 User Account
Backup Set A	user01@company-office365.com
	user02@company-office365.com
Backup Set B	user01@company-office365.com
Backup Set C	user02@company-office365.com

Example No. 3: To back up three (3) Office 365 user accounts on multiple backup sets, two Office 365 licenses are needed.

Backup Set Name	Office 365 User Account
Backup Set A	user01@company-office365.com
	user02@company-office365.com
	user03@company-office365.com
Backup Set B	user01@company-office365.com
	user02@company-office365.com
Backup Set C	user03@company-office365.com

Scenario No. 2: Backing up SharePoint Sites under Site collections in multiple backup sets.

The required Office 365 license is only one.

Example No. 1: To back up one (1) SharePoint site under Site Collection, only one Office 365 license is needed.

Backup Set Name	SharePoint Site
Backup Set A	companyoffice365.sharepoint.com/user01
Backup Set B	companyoffice365.sharepoint.com/user01
Backup Set C	companyoffice365.sharepoint.com/user01

Example No. 2: To back up one (1) or two (2) SharePoint sites under Site Collection, only one Office 365 license is needed.

Backup Set Name	SharePoint Site
Backup Set A	companyoffice365.sharepoint.com/user01
	companyoffice365.sharepoint.com/user02
Backup Set B	companyoffice365.sharepoint.com/user01
Backup Set C	companyoffice365.sharepoint.com/user01
	companyoffice365.sharepoint.com/user02

Example No. 3: To back up three (3) or more SharePoint sites under Site Collection, only one Office 365 license is needed.

Backup Set Name	SharePoint Site
Backup Set A	companyoffice365.sharepoint.com/user01
	companyoffice365.sharepoint.com/user02
	companyoffice365.sharepoint.com/user03
Backup Set B	companyoffice365.sharepoint.com/user01
Backup Set C	companyoffice365.sharepoint.com/user01
	companyoffice365.sharepoint.com/user02
	companyoffice365.sharepoint.com/user03

Scenario No. 3: Backing up files and/or folders under Public Folder in multiple backup sets.

The required Office 365 license is only one.

Backup Set Name	Files and/or Folders
Backup Set A	Folder01
	 microsoftword01.docx
	 powerpointpresentation01.pptx
	 spreadsheet01.xls
	 notepad01.txt
	 picture01.jpg
	 picture02.jpg
Backup Set B	Folder01
	 microsoftword01.docx
	 powerpointpresentation01.pptx
	 spreadsheet01.xls
	 notepad01.txt
	 picture01.jpg
	 picture02.jpg
	Folder02
	Folder03
Backup Set C	Folder01
	 microsoftword01.docx
	 powerpointpresentation01.pptx
	 spreadsheet01.xls
	 notepad01.txt
	 picture01.jpg
	 picture02.jpg
	Folder02
	Folder03
	 microsoftword02.docx
	 powerpointpresentation02.pptx
	 spreadsheet02.xls
	 notepad02txt
	 picture05.jpg

Example No. 1: To back up files and/or folders under Public Folder, only one (1) Office 365 license is needed.

Scenario No. 4: Backing up Office 365 User Accounts, files and/or folders under Public Folder, and SharePoint sites under Site Collections in multiple backup sets.

The required Office 365 license will depend on the number of unique Office 365 accounts.

Example No. 1: To back up one (1) Office 365 user account, files and/or folders under Public Folder, and SharePoint sites under Site Collections on multiple backup sets, three (3) Office 365 licenses are needed.

Backup Set Name	Office 365 User Account, SharePoint Site, and Files and/or Folders
Backup Set A	user01@company-office365.com
Backup Set B	user01@company-office365.com
	user02@company-office365.com
	companyoffice365.sharepoint.com/user01
	companyoffice365.sharepoint.com/user02
Backup Set C	user01@company-office365.com
	user02@company-office365.com
	Folder01
	 microsoftword01.docx
	 powerpointpresentation01.pptx
	 spreadsheet01.xls
	 notepad01.txt
	 picture01.jpg
	o picture02.jpg
Backup Set D	user01@company-office365.com
	user02@company-office365.com
	user03@company-office365.com
	Folder01
	 microsoftword01.docx
	 powerpointpresentation01.pptx
	 spreadsheet01.xls
	 notepad01.txt
	 picture01.jpg
	o picture02.jpg
	companyoffice365.sharepoint.com/user01
	companyoffice365.sharepoint.com/user02

Scenario No. 5: Backing up Office 365 User Accounts and Share Mailbox Accounts.

The required Office 365 license will depend on the number of unique Office 365 accounts.

Backup Set Name	Office 365 User Account and Shared Mailbox Accounts
Backup Set A	user01@company-office365.com
	user02@company-office365.com
	user03@company-office365.com
	sharedmailbox01@test-office365.com
	sharedmailbox02@test-office365.com
	sharedmailbox03@test-office365.com

Example No. 1: To back up three (3) Office 365 user account and three (3) Shared mailbox accounts, six (6) Office 365 licenses are needed.

Appendix B: Example for backup of large numbers of Office 365 users

Example: 10,000 Office 365 users needed to be backup. Since the maximum number of Office 365 users per backup set is 2,000, there are 2 options available. There are further options, but this will involve a large number of backup sets and maintenance of these backup sets will be practical.

- Option 1 5 Backup Sets, each has 2,000 Office 365 Users
- Option 2 10 Backup Sets, each has 1,000 Office 365 Users

Option 1 – 5 Backup Sets, each has 2,000 Office 365 Users

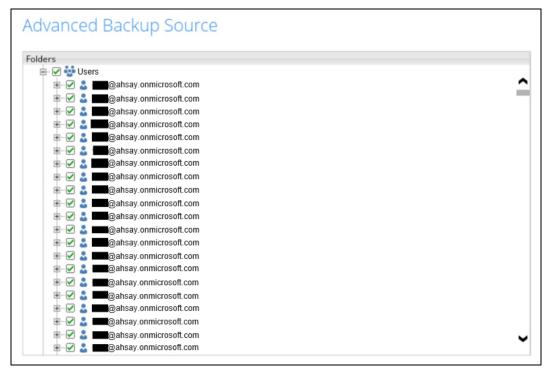
Backup Set Name	User Number
Backup -Set-1	No.1 – 2000
Backup -Set-2	No.2001 – 4000
Backup -Set-3	No. 4001 – 6000
Backup -Set-4	No. 6001 – 8000
Backup -Set-5	No. 8001 – 10000

Option 2 - 10 Backup Sets, each has 1,000 Office 365 Users

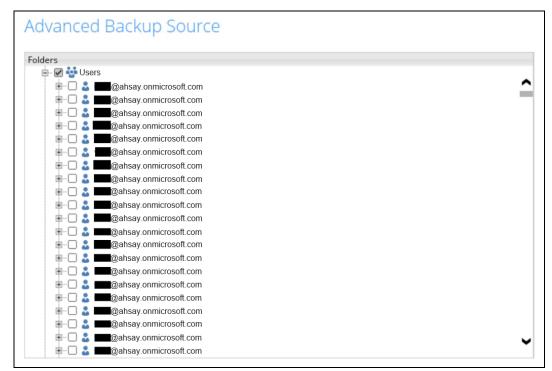
Backup Set Name	User Number
Backup -Set-1	No.1 – 1000
Backup -Set-2	No.1001 – 2000
Backup -Set-3	No. 2001 – 3000
Backup -Set-4	No. 3001 – 4000
Backup -Set-5	No. 4001 – 5000
Backup -Set-6	No. 5001 – 6000
Backup -Set-7	No. 6001 – 7000
Backup -Set-8	No. 7001 – 8000
Backup -Set-9	No. 8001 – 9000
Backup -Set-10	No. 9001 – 10000

If Option 2 was selected, for the last backup set, Backup -Set-10, follow the instructions on how to select the Office 365 users. Doing these steps will ensure that additional Office 365 users will be automatically included in the backup set.

1. On the backup source, tick the checkbox for the root selection. This will select all the Office 365 users.



2. Deselect the first 9000 Office 365 users.



Appendix C: Example Scenarios for Restore Filter using AhsayOBM

Scenarios No. 1: Items from Users

Example No. 1: Restore filter setting from an Office 365 user account's outlook inbox

Location:	Office 365/Users/abc@ahsay.onmicrosoft.com/Outlook/Inbox
Search subfolders:	True
Kind:	Mail – Subject
Туре:	Contains
Pattern:	Office 365 changes
Match Case:	True

Follow the step-by-step procedure indicated on <u>Restore Filter with AhsayOBM</u>.

Search Change Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Orgon Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Orgon Office 365 changes Ørgon Match case	ook in Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change Search subfolders Cind Type Pattern Mail - Subject Contains Office 365 changes Match case Search Name In Folder Size Date modified			
Look in Office 365/Users/@ahsay.onmicrosoft.com/Outlook/Inbox Change Search subfolders Kind Type Mail - Subject Contains Office 365 changes Search Name In Folder Size Date modified	ook in Office 365/Users/ @ahsay.onmicrosoft.com/Outlook/Inbox Change Search subfolders Ind Type Pattern Mail - Subject Contains Office 365 changes Match case Search Name In Folder Size Date modified teems per page 50 Page - V	Search		
✓ Search subfolders Kind Type Pattern Mail - Subject contains Office 365 changes ✓ Match case Search Search In Folder Size Date modified	Search subfolders Ind Type Pattern Mail - Subject Contains Office 365 changes Match case Search Name In Folder Size Date modified tems per page 50 Page -			
Kind Type Pattern Mail - Subject Office 365 changes Match case Search In Folder Size Date modified	Ind Type Pattern Mail - Subject Contains Office 365 changes Match case Search Name In Folder Size Date modified terms per page 50 Page - ♥	Office 365/Users/	@ahsay.onmicrosoft.com/Outlook/Inbox	Change
Mail - Subject Contains Office 365 changes Search Name In Folder Size Date modified	Mail - Subject Contains Contains Office 365 changes Match case Search Name In Folder Size Date modified terms per page 50 Page - V	 Search subfolders 		
Search Name In Folder Size Date modified	Search Name In Folder Size Date modified terms per page 50 ♥ Page ●	Kind	Type Pattern	
Name In Folder Size Date modified	Name In Folder Size Date modified	Mail - Subject 🗸 🗸	contains V Office 365 changes	Match case
	tems per page 50 ♥ Page - ♥	Search		
Items per page 50 V Page - V		Name	In Folder	Size Date modified
	ОК Салсеі	Items per page 50 🗸		Page - 🖌

Search					
Look in					
Office 365/Users/	@ahsay.onmic	rosoft.com/Outlook/Inbox		Change	
 Search subfolders 					
Kind	Туре	Pattern			
Mail - Subject 🗸 🗸	contains 🗸 🗸	Office 365 changes	-	Match case	
Searching	Stop				
Name		In Folder		Page - 🖌	
			Previous	OK Cancel	Help Help

Look in				
Office 365/Users/	@ahsay.onmic	rosoft.com/Outlook/Inbox		Change
 Search subfolders 				
Kind	Туре	Pattern		
Mail - Subject 🗸 🗸	contains 🗸	Office 365 changes		✓ Match ca
Search				
Name		In Folder	Size	Date modified
🕑 🖃 Weekly digest: Office 365 d	hanges Office 365/Users	@ahsay.onmicrosoft.com/	68k	10/11/2017 04:07
🕑 🖃 Weekly digest: Office 365 d	*		61k	02/13/2018 15:45
✓ ■ Weekly digest: Office 365 d			63k	10/11/2017 04:07
✓	-		66k	10/17/2017 01:14
Weekly digest: Office 365 d	-	· · · · · · · · · · · · · · · ·	60k	10/24/2017 00:58
✓ E [*] Weekly digest: Office 365 d ✓ E [*] Weekly digest: Office 365 d			58k 59k	11/01/2017 00:19 11/10/2017 02:07
Weekly digest: Office 365 d			65k	11/21/2017 00:28
✓ Weekly digest: Office 365 d			61k	11/21/2017 00:28
Weekly digest: Office 365 d			57k	02/13/2018 15:45
Items per page 50 🗸				Page 1/2
	_			
				ОК

Explanation:

All mails under <u>Office 365/Users/abc@ahsay.onmicrosoft.com/Outlook/Inbox</u> that has a subject and contains 'Office 365 changes' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the mail, Directory of the mails which are indicated In-Folder column, Size of each mails, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. This means that the filter will include all available subfolders in the Outlook Inbox upon searching. And it will strictly search only the specified pattern and case which is the 'Office 365 changes'.

Location:	Office 365/Users/abc@ahsay.onmicrosoft.com/OneDrive
Search subfolders:	True
Kind:	Files and Folders
Туре:	Exact
Pattern:	testBigFile-backup
Match Case:	True

Example No. 2: Restore filter setting from an Office 365 user account's OneDrive

Follow the step-by-step procedure indicated on Restore Filter with AhsayOBM

Search			
Look in			
Office 365/Users/	@ahsay.onmi	crosoft.com/OneDrive	Change
 Search subfolders 			
Kind	Туре	Pattern	
Files and Folders 🛛 🗸	exact 🗸	testBigFile-backup	✓ Match case
Search			
Name	In Folder	Size	Date modified
tons or pig 50 - vi	7		
Items per page 50 🗸]		Page - 🖌
Items per page 50 🗸]		Page - 🖌
Items per page 50 🗸]		Page - 🗸

Search					
Look in					
Office 365/Users/	@ahsay.onmic	rosoft.com/OneDrive		Change	
 Search subfolders 					
Kind	Туре	Pattern			
Files and Folders 🛛 👻	exact 🗸 🗸	testBigFile-backup		 Match case 	
Countries	Stop				
Searching	stop				
Name	In F	older S	ize D	ate modified	
Items per page 50 V				Page - 🗸	
Items per page 50 V				Page - 🗸	
Items per page 50 🗸				Page - 🗸	
Items per page 50 V				Page - 🗸	Help

Search					
Look in					
Office 365/Users/	@ahsay.onmic	crosoft.com/OneDrive		Change	
 Search subfolders 					
Kind	Туре	Pattern			
Files and Folders 🛛 🖌	exact 🗸 🗸	testBigFile-backup	J	Match case	
Search					
Name		n Folder @ahsay.onmicrosoft.com/OneDrive	Size Da	te modified	
Items per page 50 🗸 🗸			Pag	e 1/1 🗸	
Items per page 50 👻			Pag	e 1/1 🗸	
Items per page 50 👻			Pag	e 1/1 🗸	
tems per page 50 🗸			Pag		elp

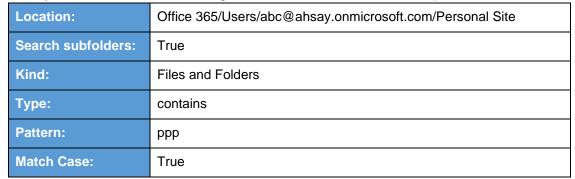
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Explanation:

All files and folders under <u>Office 365/Users/abc@ahsay.onmicrosoft.com/OneDrive</u> that has the exact pattern of 'testBigFile-backup' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the mail, Directory of the mails which are indicated In-Folder column, Size of each mails, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. This means that the filter will include all available subfolders in OneDrive upon searching. And it will strictly search only the specified pattern and case which is the 'testBigFile-backup'.



Example No. 3: Restore filter setting from an Office 365 user account's personal site

Follow the step-by-step procedure indicated on Restore Filter with AhsayOBM

Search				
Look in				
Office 365/Users/	@ahsay.onmic	crosoft.com/Personal Site		Change
Search subfolders				
Kind	Туре	Pattern		
Files and Folders	contains 🗸	ррр		✓ Match case
Search				
Name		In Folder	Size	Date modified
	7			
Items per page 50 👻				Page - 🖌
				OK Cancel Help

Search						
Look in						
Office 365/Users/	@ahsay.onmicr	rosoft.com/Personal Site		Change		
 Search subfolders 						
Kind	Туре	Pattern				
Files and Folders 🛛 👻	contains 🗸	ррр		✓ Match case		
Searching	Stop					Ì
Name		In Folder	Size	Date modified		
tems per page 50 🗸				Page - 🗸		
	li I			ок	ancel Help	ſ
		Pres	vious	- Next	ancel Help	
		Pret	vious	Next	Cancel Help	
		Pres	vious	Next	ancel Help	
		Pre	vious	Next	ancel Help	
		Pre	vious	Next	ancel Help	
Search		Pre	vious	Next	ancel Help	
Search Look in		Pre	vious	Next	ancel Help	
Look in	@ahsay.onmic	crosoft.com/Personal Site	vious	Change	ancel Help	
Look in	@ahsay.onmic		vious	Change	ancel Help	
Look in Office 365/Users/	@ahsay.onmic Type		vious	Change	ancel Help	
Look in Office 365/Users/		crosoft.com/Personal Site Pattern	vious	Change	ancel Help	
Look in Office 365/Users/ Search subfolders Kind	Туре	crosoft.com/Personal Site	vious		ancel Help	
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Look in Office 365/Users/ Search subfolders Kind Files and Folders Search Search Search Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User	Type contains alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on	Pattern Ppp In Folder microsoft.com/Personal Site/D101_Lists and Librari.	Size 35k 35k 35k 35k 35k 35k	✓ Match case Date modified 08/29/2018 15:53 08/29/2018 16:23 08/29/2018 18:28 08/29/2018 16:54 08/29/2018 17:03 08/29/2018 18:16	ancel Help	
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Look in Office 365/Users/ Search subfolders Kind Files and Folders Search Search Search Mame Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User	Type contains alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on	Pattern Ppp In Folder microsoft.com/Personal Site/D101_Lists and Librari.	Size 35k 35k 35k 35k 35k 35k	✓ Match case Date modified 08/29/2018 15:53 08/29/2018 16:23 08/29/2018 16:54 08/29/2018 17:03 08/29/2018 18:16 08/29/2018 18:19 Page 1 / 1 ✓	Cancel Help	
Look in Office 365/Users/ Search subfolders Kind Files and Folders Search Search Search Mame Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User Ppp.pptx Office 365/User	Type contains alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on alabasy.on	Pattern Ppp In Folder microsoft.com/Personal Site/D101_Lists and Librari.	Size 35k 35k 35k 35k 35k 35k	✓ Match case Date modified 08/29/2018 15:53 08/29/2018 16:23 08/29/2018 16:54 08/29/2018 18:16 08/29/2018 18:19 Page 1 / 1 ✓	Cancel Help	

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Explanation:

All personal site under Office 365/Users/abc@ahsay.onmicrosoft.com/Personal Site that has the pattern that contains with 'ppp' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the mail, Directory of the mails which are indicated In-Folder column, Size of each mails, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. This means that the filter will include all available subfolders in Personal Site upon searching. And it will strictly search only the specified pattern and case which starts with 'ppp'.

Scenarios No. 2: Items from Site Collections

Location:	Office 365/Site Collections
Search subfolders:	True
Kind:	Files and Directories
Туре:	Starts With
Pattern:	A
Match Case:	True

Follow the step-by-step procedure indicated on <u>Restore Filter with AhsayOBM</u>.

Search		
Look in		
Office 365/Site Collections		Change
Search subfolders		
Kind	Type Pattern	
Files and Directories 👻	starts with 🖌 A	✓ Match case
Search		
Name	In Folder	Size Date modified
Items per page 50 💙		Page - 🗸
		OK Cancel Help
		Previous Next Cancel Help

Search				
Look in				
Office 365/Site Collections				Change
Search subfolders				
	Туре	Pattern		
Files and Directories 🖌	starts with 🖌	A		 Match case
	Chan			
Searching	Stop			
Name		In Folder	Size	Date modified
Items per page 50 🗸				Page - 🖌
				rage - 🗸
				OK Cancel Help
Search				
Look in				channer.
Office 365/Site Collections				Change
 Search subfolders Kind 	Туре	Pattern		
Files and Directories V	starts with V	A		Match case
Search				
Name		In Folder		Date modified
🗹 🖻 AlternateMediaPlayer.xaml	Office	: 365/Site Collections/D901_ahsay.sharepoint.co : 365/Site Collections/D901_ahsay.sharepoint.co	m 35k 09	9/29/2018 17:01
🖌 💽 AudioPreview.png	Office	: 365/Site Collections/D901_ahsay.sharepoint.co	m 13k 09	9/29/2018 17:01
Items per page 50 🗸			Pa	ge 1/1 🖌
				OK Cancel Help
				cancer help

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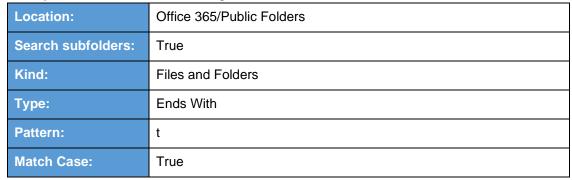
Previous Next Cancel Help

Explanation:

All SharePoint sites under <u>Office 365/Site Collections</u> that has the pattern that starts with 'A' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the mail, Directory of the mails which are indicated In-Folder column, Size of each mails, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. This means that the filter will include all available subfolders in Site Collections upon searching. And it will strictly search only the specified pattern and case which starts with 'A'.



Example No. 2: Restore filter setting from Public Folders

Follow the step-by-step procedure indicated on <u>Restore Filter with AhsayOBM</u>.

Search Office 365/Public Folders Search subfolders Kind Type Pattern Files and Folders ends with t							
Office 365/Public Folders Change Image: Search subfolders Files and Folders ends with Image: Type Files and Folders ends with Image: Type Match case Search Image: Type Date modified	Search						
Search subfolders Kind Files and Folders ends with t Search Name In Folder Size Date modified	Look in						
Kind Type Pattern Files and Folders ends with t Search Name In Folder Size Date modified	Office 365/Public F	olders				Change	
Files and Folders ends with t Search Name In Folder Size Date modified	 Search subfolde 	rs					
Search Name In Folder Size Date modified	Kind	Тур	pe	Pattern			
Name In Folder Size Date modified	Files and Folders	► er	nds with 🛛 🗸	t		 Match case 	
	Search						
Items per page 50 V Page - V	Name		In Folder	Size	Date n	nodified	
	items per page 50	~				Page - V	el

Search				
Look in				
Office 365/Public Folders				Change
 Search subfolders 				
Kind	Туре	Pattern		
Files and Folders 🛛 👻	ends with 🖌	t		✓ Match case
Searching	Stop			
Name	In Folder	Siz	e Da	ate modified
Items per page 50 🗸				Page - 🗸
				OK Cancel Help
			Previous	Next Cancel Help
Search				
Look in				Change
Office 365/Public Folders				Change
Kind	Туре	Pattern		
Files and Folders	ends with	t		✓ Match case
Search				
Name	In Folder		ize D	Date modified
🗹 🗾 Pub-Test	Office 365/Public Folders	5		
	1			
Items per page 50 🗸				Page 1/1 🗸
				OK Cancel Help
 		<u></u> _	Previou	

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Explanation:

All files and folders under <u>Office 365/Public Folders</u> that has the pattern that ends with 't' with match case set to true will be included upon performing search.

As you can see on the screen shot above, the result panel contains the Name of the mail, Directory of the mails which are indicated In-Folder column, Size of each mails, and Date Modified.

The restore filter setting includes the Search subfolder and Match case set to true. This means that the filter will include all available subfolders in Public Folder upon searching. And it will strictly search only the specified pattern and case which ends with 't'.

Appendix D: Setting Multi-Factor Authentication (MFA) in Microsoft 365 Admin Center

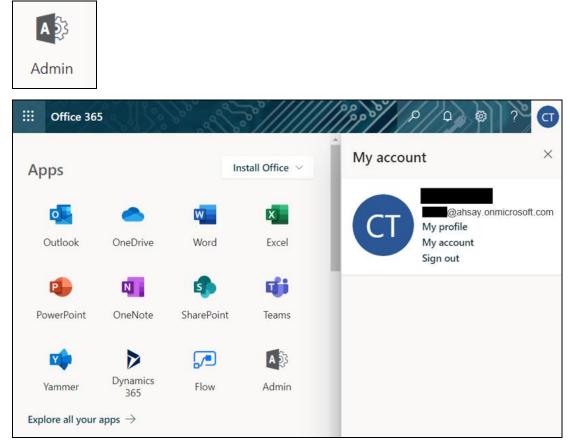
What is a Multi-Factor Authentication (MFA)? It is an authentication method wherein a user will be granted an access only after successfully presenting two or more evidences or proof of personal information or identification. It also adds second layer of security to users upon logging in.

To enable MFA to any Office 365 user accounts, follow the steps below:

1. Login using an Office 365 Administrator credentials.

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_	
oft.com	
oft	.com

2. Click the Admin Center icon.



3. Go to Users and select the Active users from the list.

Mi	rosoft 365 admin epte			\$}}} :≡	D
=			Ahsay Systems Corport	My accounts ×	
ଜ	Home		Active user		
8	Users	^			
1	Active users		م …	@ahsay.onmicrosoft.com	
	Contacts		Display name 1	My profile	
	Guest users			My account	
	Deleted users		[CI-10000-mail	Sign out	
RR	Groups	\sim	[CI-DataType]		
	Billing	\sim	[CI]		
Ø	Customize Navigation		[CSV-CSST] Ale		
	Show all		[CSV-CSST] Jo		

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4. There are two (2) modes of viewing the Active users.

Classic Mode - This is the default mode upon entering the Active users screen.



Preview Mode – This is a new feature in the Office 365 Admin Center that offers simplification to manage your Microsoft 365 and Office 365 services. It also has all the capabilities of the classic mode.

	Microsoft 365 admin	center			MM3-84111	0 @	? CT
=			Ahsay Systems Corporation Limited			Previ	ew on
ŵ	Home		Active users				
8	Users	^					
1	Active users		ର୍ଷ, Add a user ୍ର ନ୍ୟୁ Add multiple users	🕐 Refresh		∀ Filter	=
	Contacts		Display name 1	Username		1	licenses
	Guest users Deleted users		[CI-10000-mail]	: @ah	say.onmicrosoft.com	1	Office 365 E3
RR	Groups	\sim	[CI-DataType]	: @ahsay	onmicrosoft.com	1	Unlicensed
8	Billing	\sim	[CI]	(@al	nsay.onmicrosoft.com)	Microsoft Teams
0	Customize Navigation		[CSV-CSST]	; Pal	hsay.onmicrosoft.com	1	Microsoft Teams
	Show all		[CSV-CSST]	1	@ahsay.onmicrosoft.com	Ì	Microsoft Teams

 To go to the Multifactor Authentication screen, below are the steps for classic and preview mode.
 For the Classic Mode:

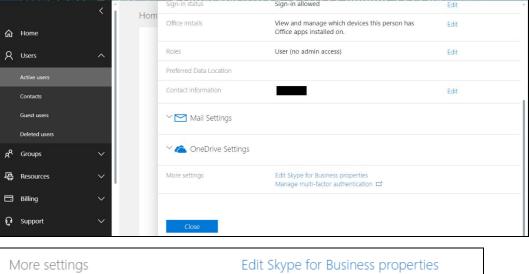
For the Classic Mode:

 Search and select an Office 365 user account. The user's information will be displayed.

	Microsoft 365 admin center			\$}{ ⁶	ه ۲ C
	<	Home > Active users	Ahsay Systems Corporation Li		Try the preview
ŵ	Home	+ Add a user More 🗸	Views All users •	×	± Export
R	Users ^	Display name 🔨	Username		Status
	Active users		@ahsa	ay.onmicrosoft.com	Office 365 E3
	Contacts				
	Guest users				I
	Deleted users	Just want to add an em	ail address?	Types of users	
ĸR	Groups 🗸 🗸	We'll help you select the righ on your needs.		of users and accounts can use 365 in distinct ways.	Learn how cre this list unde
骨	Resources 🗸 🗸	on your needs	onice	sos in alsonice najsi	the lot druce
	Billing ~				
្ច	Support 🗸				

• In the lower part of the user's information screen, look for the **Manage multi-factor authentication** link. It is in the More settings portion.

	Microsoft 365 admin center			0 @ ? C
ය	K		ihsay.onmicrosoft.com	C X
8	Users 🔿	Change 🔍 Rese	t password 🖉 🖧 Block sign-in 📋 Delete user	
	Active users	Username / Email	@ahsay.onmicrosoft.com	Edit
	Contacts	Aliases	none	
	Guest users	Product licenses	Office 365 E3	Edit
	Deleted users	Group memberships (0)	No groups for the user. Click edit to change group membership.	Edit
RR	Groups 🗸	Sign-in status	Sign-in allowed	Edit
辱	Resources V	Office installs	View and manage which devices this person has Office apps installed on.	Edit
	Billing V	Roles	User (no admin access)	Edit
ច	Support 🗸	Preferred Data Location		
	Microsoft 365 admin center	Sign-in status	Sign-in allowed	
	<	Hom	Mew and manage which devices this parson has	



Manage multi-factor authentication

For the Preview Mode:

• In the Active users screen, click the [...] ellipses.

•••

• Select Setup multifactor authentication from the list.

=			Ahsay Systems Corporation Limited			Preview on
ଜ	Home		Active users			
8	Users	^				
1	Active users		옥+ Add a user 영 Add multiple users 🕐 Ref	resh	···	∑ Filter =
	Contacts Guest users		Display name î		 ✓ Export Users Q Reset a password 	Licenses
	Deleted users		[CI-10000-mail]		Delete a user	Office 365 E3
RA	Groups	~	[CI-DataType]		Setup multifactor authentication Oirectory synchronization	Unlicensed
	Billing	\sim	[CI]		@ahsay.onmicrosoft.com	Microsoft Tea
0	Customize Navigation		[CSV-CSST]		@ahsay.onmicrosoft.com	Microsoft Tea
	Show all		[CSV-CSST]		@ahsay.onmicrosoft.com	Microsoft Tea
			[CSV-CSST]		@ahsay.onmicrosoft.com	Microsoft Tea
			[CSV-CSST]		@ahsay.onmicrosoft.co	m Microsoft Tea

6. The multi-factor authentication screen will be displayed.

• <u>89</u> /{{.]	S /////////		×3/0 6-2 C
multi-factor au users service sett			
	e Microsoft Online Services are eligible for Multi-Factor Authent It the multi-factor auth deployment guide.	tication. Learn more about how to lic	ense other users.
bulk update			
View: Sign-in allowed users	• P Multi-Factor Auth status: Any •		
DISPLAY NAME	USER NAME	MULTI-FACTOR AUTH STATUS	
	@ahsay.onmicrosoft.com	Disabled	Select a user
			Select a user
6	@ahsay.onmicrosoft.com	Disabled	
	@ahsay.onmicrosoft.com @ahsay.onmicrosoft.com	Disabled Disabled	
CI-DataType]	@ahsay.onmicrosoft.com	Disabled	
 CI-DataType] [QA-Admin account] 	@ahsay.onmicrosoft.com @ahsay.onmicrosoft.com	Disabled Disabled	
an a	@ahsay.onmicrosoft.com @ahsay.onmicrosoft.com @ahsay.onmicrosoft.com	Disabled Disabled Disabled	
[QA-Admin account]	@ahsay.onmicrosoft.com @ahsay.onmicrosoft.com @ahsay.onmicrosoft.com @ahsay.onmicrosoft.com	Disabled Disabled Disabled Disabled	

Note: The two (2) modes will go to the same screen.

7. You can search and select one or more Office 365 user accounts. There is also a drop-down list available for multi-factor authentication status namely, **Disabled**, **Enabled**, and **Enforced**.

	ji / (j			ि ा ि ि
	ulti-factor au ers service setti	uthentication ings		
		e Microsoft Online Services are eligible for Multi-Factor A t the multi-factor auth deployment guide.	uthentication. Learn more about how to lice	ense other users.
Vie	ew: Sign-in allowed users	▼ csv	Multi-Factor Auth status: Any 🔻	
	DISPLAY NAME	USER NAME	MULTI-FACTOR STATUS Enabled	
		@ahsay.onmicrosoft.com	Disabled Enforced	
		@ahsay.onmicrosoft.com	Disabled	
		@ahsay.onmicrosoft.com	Disabled	@ahsay.onmicrosoft.com
		@ahsay.onmicrosoft.com	Disabled	quick steps
		@ahsay.onmicrosoft.com	Disabled	Enable
	[CSV]	@ahsay.onmicrosoft.com	Disabled	Manage user settings

- Disabled This status refers to the users who are not yet enrolled in the MFA. This is the default status.
- Enabled This status refers to the users who are enrolled in the MFA, but changes have not yet taken effect.
- Enforced This status refers to the users who are enrolled in the MFA has completed the registration process.
- 8. Upon selecting a user, on the right side of the screen it will show you a link to enable the MFA. Click the **Enable** link to proceed.

	~~~.!S			З 0 _ ? _ СТ
	ulti-factor auth ers service setting			
		crosoft Online Services are eligible for Multi e multi-factor auth deployment guide.	-Factor Authentication. Learn more about how to licen	se other users.
Vi	ew: Sign-in allowed users	▼ csv-ivy	X Multi-Factor Auth status: Any V	
۲	DISPLAY NAME	USER NAME	MULTI-FACTOR AUTH STATUS	
		@ahsay.onmicrosoft.com	Disabled	
				@ahsay.onmicrosoft.com
				quick steps
				Enable
				Manage user settings
	@ahsay.onmicroso	oft.com		
qu	ick steps			
Enal				
Mar	nage user settings			

9. A warning message will be displayed. Click the **enable multi-factor auth** button to proceed. Otherwise, click the **cancel** button to abort.

		0 - 2 ст
multi-factor a users service set	authentication ttings	
	use Microsoft Online Services are eligible for Multi-Factor Authentication. Learn more about how to license o k at the multi-factor auth deployment guide.	ther users.
DISPLAY NAME	About enabling multi-factor auth Please read the deployment guide if you haven't already. If your users do not regularly sign in through the browser, you can send them to this link to register for mu auth: https://aka.ms/MFASetup	/ <b>r</b> y.onmicrosoft.com
		DS Enable Manage user settings

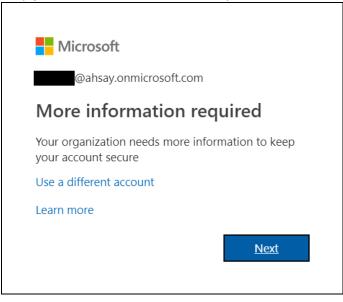
10. If you select enable multi-factor auth, the screen below shows the successful enabling of MFA for the Office 365 user account that you selected.

multi-factor a	uthentication	9 - @ - <u>?</u>
Note: only users licensed to u	se Microsoft Online Services are eligible for Multi-Factor Authentication. Learn more about how to license other user at the multi-factor auth deployment guide.	
	Multi-factor auth is now enabled for the selected accounts.	a user

11. To finish the setup for the MFA, login using the MFA enabled Office 365 user account.

Sign in		
-	microsoft.com	
@ansay.on	microsoft.com	
No account? Create o	ne!	
Can't access your acco	ount?	
Sign-in options		
	Back	Next
Microsoft		
_	v.onmicrosoft.com	
← @ahsay	v.onmicrosoft.com	
_		
← @ahsay		
← <b>a</b> ahsay Enter passw		

12. Upon logging in, there will be a message that will require you to provide more information to keep your account safe. Click **Next** to proceed.



13. The Additional security verification screen will be displayed. Select one (1) option you want for the security of your account. You can choose from the three (3) options, Authentication phone, Office phone, and Mobile app.

Microsoft	
Additional security verification	
Secure your account by adding phone verification to your password. View video to know how to secure your account	int
Step 1: How should we contact you?	
Authentication phone	
Select your country or region	
Phone number can contain only the digits 0-9, dash, space, period and parentheses.	
<ul> <li>Method</li> <li>Send me a code by text message</li> </ul>	
Call me	
	Next
Your phone numbers will only be used for account security. Standard telephone and SMS charges will apply.	
©2019 Microsoft Legal   Privacy	

- Authentication phone
  - Enter valid mobile number.
  - Select a method
    - Send me a code by text message

licrosoft								
dditional security	verifi	cation	n					
ure your account by adding phone verif	ication to yo	our password.	View vid	eo to kno	w how to	secure you	ir account	
tep 1: How should we contac	t you?							
Authentication phone								
Philippines (+63)								
-Method	]							
Send me a code by text message								
Call me								
								Next
our phone numbers will only be used fo	r account se	ecurity. Standa	urd teleph	one and	SMS char	ies will apr	alv.	
our priorie numbers will only be used to	, account se	.carriyi Standa	ind teleph	one unu	Sins churg	,05 mil up)		

• Office phone – This option is disabled. Please ask your administrator if you need to update your office phone number.

Microsoft
Additional security verification
Secure your account by adding phone verification to your password. View video to know how to secure your account Step 1: How should we contact you?
Office phone         Select your country or region         Extension
Contact your admin if you need to update your office number. Do not use a Lync phone.
Next
Your phone numbers will only be used for account security. Standard telephone and SMS charges will apply.
©2019 Microsoft Legal   Privacy

- Mobile app
  - $\circ$   $\,$  Select which option you like upon using the mobile app  $\,$ 
    - Receive notifications for verification • .
      - Use verification code
- 14. If you have selected the first option which is the Authentication phone with a method of Send me a code by text, you will receive a text message containing the verification code. Ensure that you have indicated a valid mobile number.

<	Microsoft			De	lete
	<u>290128</u>	Thursday, May 1	6, 2019		
		e for Microsoft v	verification	2 5:11 PM	
Microsoft					
Secure you Step 2:	tional securit	erification to your password.	View video to know	how to secure your a	ccount
©2019 Mit	rosoft Legal   Privacy			Cancel	Verify



Microsoft
Additional security verification
Secure your account by adding phone verification to your password. View video to know how to secure your account
Step 3: Keep using your existing applications
In some apps, like Outlook, Apple Mail, and Microsoft Office, you can't use a phone to secure your account. To use these apps, you'll need to create a new "app password" to use in place of your work or school account password. Learn more
Get started with this app password:
xhfzrztfhjgqflbg
Done
©2019 Microsoft Legal   Privacy

15. To verify if it's working, login using the MFA enabled Office 365 user account.

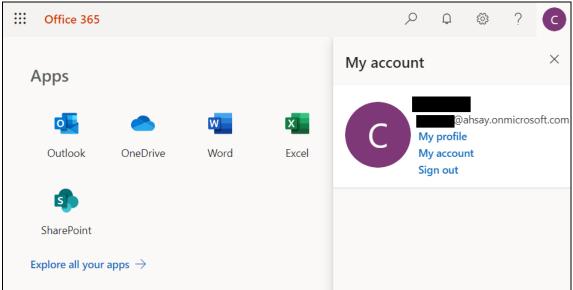
Microsoft			
Sign in			
@ahsay.onn	nicrosoft.com		
No account? Create on	e!		
Can't access your acco	n't access your account?		
Sign-in options			

16. Upon logging in, there will be a message that will require you to provide the code that have been sent to your personal mobile number. Click **Verify** to proceed.

Microsoft
@ahsay.onmicrosoft.com
Enter code
↓ We texted your phone +XX XXXXXXX79. Please enter the code to sign in.
Code
Having trouble? Sign in another way
More information
Verify
✓ Microsoft Delete
Thursday, May 16, 2019
<u>501311</u>
Lies this and for Migrapoft varification
Use this code for Microsoft verification 2 5:23 PM
Lies this and for Migrapoft varification
Lies this and for Migrapoft varification
Use this code for Microsoft verification 2 5:23 PM
Use this code for Microsoft verification 2 5:23 PM
Use this code for Microsoft verification 2 5:23 PM Microsoft @ahsay.onmicrosoft.com
Use this code for Microsoft verification 2 5:23 PM Microsoft @ahsay.onmicrosoft.com Enter code Use texted your phone +XX XXXXXXX79. Please
<ul> <li>Use this code for Microsoft verification</li> <li>2 5:23 PM</li> <li>Microsoft</li> <li>@ahsay.onmicrosoft.com</li> <li>Enter code</li> <li>We texted your phone +XX XXXXXXX79. Please enter the code to sign in.</li> </ul>
Use this code for Microsoft verification  Solution  Sol
Set this code for Microsoft verification 2 5:23 PM Content of the provided state of the prov

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17. After the verification process, the screen will be automatically redirected to the Office 365 Main screen.



# Appendix E: Setting "Need help logging in" using AhsayOBM

The Need help logging in feature will assist you on the steps needed in case an enrolled phone number is not available in the list.

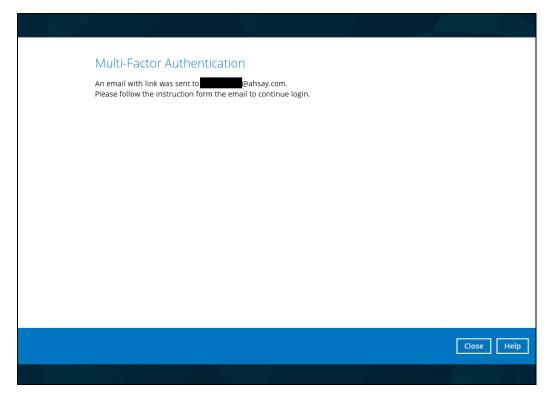
- 1. Log in to AhsayOBM according to the instructions in Login to AhsayOBM.
- 2. If Multi-Factor Authentication (MFA) is enabled, the following screen will appear. Click the **Need** help logging in? located in the lower left corner of the screen.

M	ulti-Factor Authentica	ation		
Plea	se select phone number to rece Hong Kong (+852) - ****5678		ge to continue login.	
٩	United States, Canada (+1) - *			
٩	Philippines (+63) - ******447	9		
Need help logging in?				Cancel Help

3. Enter a valid e-mail address then click **Send**. It should be the same with the e-mail address indicated in the contact information in the backup set. Please contact your service provider for more details.

Multi-Factor Authentication Please enter contact email address to receive email with login instruction.	
	Send Cancel Help
Multi-Factor Authentication         Please enter contact email address to receive email with login instruction.         @ahsay.com	
Please enter contact email address to receive email with login instruction.	Send Cancel Help

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4. Check the email as there will be login instructions. Click the link to proceed.

G AhsayCBS
Dear Win0365_01,
Please click the following link to register your phone number. The link will be expired at 06/07/2019 12:02:40:
http://10.90.10.12:80/cbs/RecoverPhoneNumber.do? uid=1559005657772&token=4CC2C065278B4A898BE33C2DA25CC49FB89172C760D64515A3BE4E3588CBACBE
Sincerely Ahsay Support Team

5. Select a Country Code and enter the mobile number. Click the V button.

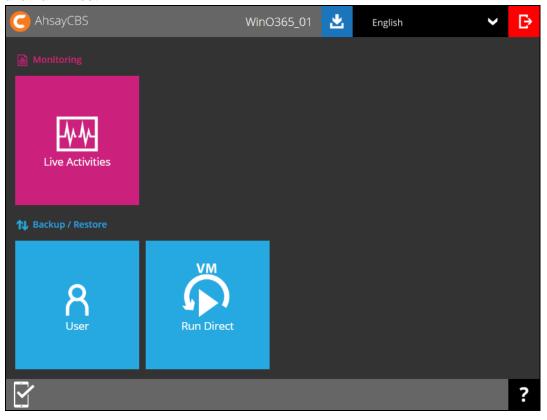
Multi-Factor Authentication	
You will receive a passcode in the SMS message Country Code	
Multi-Factor Authentication	
You will receive a passcode in the SMS message	
Philippines (+63)	

6. Enter the passcode and click  $\checkmark$  button.

Resend passcode

Mul	ti-Factor Authentication
SMS mess	age with a passcode was already sent to the phone number +63-*****9795 Please enter the passcode to continue login.
RSHI -	(00:00:30)
	ti-Factor Authentication
RSHI - 14	

7. The main menu will be displayed. This consist of the following modules: Live Activities, User, and Run Direct.



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## Appendix F: Example Scenario for Backup Set Maintenance

Scenario: Office 365 user account does not exist warning message

This is the sample warning message if the user does not exist. If a user is removed from the domain and the Admin did not manually unselect the user from the backup source, then during backup job there will be a warning that the user does not exist. The warning will appear on the backup log.

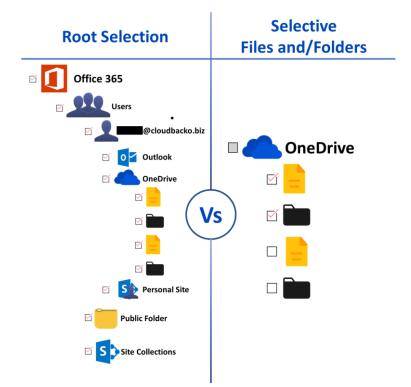
Backup job is completed with warning(s). Check the backup log for the warning message.

Run Office 365 Backup Set	
35 (Host: 125.	B
up completed with warning(s)	لم
up 452.27KB (1 file, 0 directory, 0 link)	
time 59 sec	
rate 12.80Kbit/s	
	S (Host: 125. (Hos

Backup log contains a warning message.

ype	Log	Time
0	Start [ AhsayOBM v8.3.4.0 ]	10/07/2020 09:08:56
0	Saving encrypted backup set encryption keys to server	10/07/2020 09:08:56
0	Start Backup [In-File Delta: Full]	10/07/2020 09:08:57
0	Using Temporary Directory /Users/admin/temp/1593790007940/OBS@1593790373096	10/07/2020 09:08:57
0	Start running pre-commands	10/07/2020 09:09:38
	Finished running pre-commands	10/07/2020 09:09:38
	Downloading server file list (Office 365)	10/07/2020 09:09:38
	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	10/07/2020 09:09:47
	Downloading server file list (Office 365) Completed	10/07/2020 09:09:47
	Office 365 Data Synchronization Check is disabled (Debug option – Office 365, DSCInterval = $-1$ )	10/07/2020 09:09:51
	Backup source "Office 365/Users/@@ahsay.onmicrosoft.com" does not exist !	10/07/2020 09:09:54
	Downloading server menistrie @cloudbacko.biz)	10/07/2020 09:09:54
	Downloading server file list (Office 365/Site Collections/D901_ahsay-my.sharepoint.com%2fpersona%2fyuk_support_cl	10/07/2020 09:10:06
	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	10/07/2020 09:10:17
	Downloading server file list ( @cloudbacko.biz) Completed	10/07/2020 09:10:17
D	Reading backup source from @cloudbacko.biz	10/07/2020 09:10:18
	Reading backup source from @cloudbacko.biz Completed	10/07/2020 09:10:18
	Start validation the presence and size of hackup data in destination "AhsavCRS"	10/07/2020 09-10-18

# Appendix G: Example Scenario for Data Synchronization Check (DSC) with sample backup logs



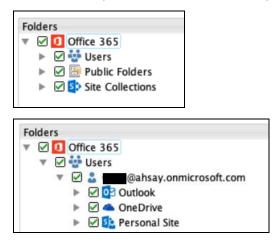
## Selection of root folder vs Selective files and/folders

## **Root Selection**

Selecting the root folder automatically selects all the files and/or folders under all Office 365 user accounts including the Public Folder and Site Collections. On the comparison image above, the checkbox for the root folder "Office 365" is ticked.

Data synchronization check is not required when using root selection backed up. As during a backup job any deleted files in the backup source will be automatically move to retention area.

Below is a sample screenshot of the backup source with root selection.



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## **Selective Files and/or Folders**

When the root folder is not selected, and the files and/or folders are selected individually. If the files and/or folders are subsequently un-selected from the backup source. The backup job will not pick up the changes of the de-selected files and/or folders, they will not be moved the retention area but remain in the data area. In the long run this could result in a build-up of data in the backup destinations(s).

On the comparison image above, the "OneDrive" checkbox is greyed out because there are only one file and one folder selected.

Data synchronization check is highly recommended to perform to synchronize de-selected files and/folders in the backup source with the backup destination(s). This will ensure that there will be no data build up on the backup destination(s).

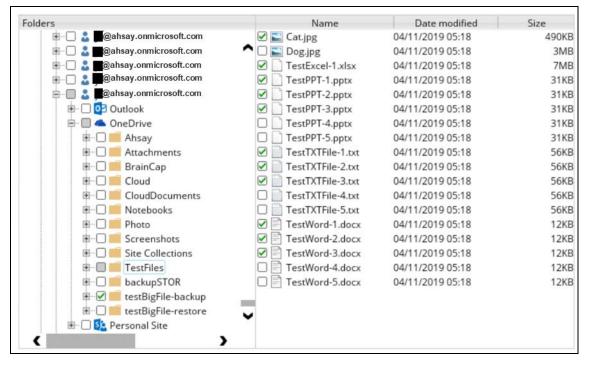
Below is the sample screenshot of the backup source with selective files and/or folders.

Folders		Name	Date modified	Size
►	🗋 🍰 🗾 @ahsay.onmicrosoft.com	🗹 👼 Cat.jpg	11/04/2019 04:18	490KB
	🔲 🍰 🚛 🦛 @ahsay.onmicrosoft.com	🔨 🛃 Dog.jpg	11/04/2019 04:18	3 MB
v	ahsay.onmicrosoft.com 🔒 💼	TestExcel-1.xlsx	11/04/2019 04:18	7 M B
	Outlook	TestPPT-1.pptx	11/04/2019 04:18	31KB
	🔻 🔲 📥 OneDrive	TestPPT-2.pptx	11/04/2019 04:18	31KB
	Ahsay	🗹 🗋 TestPPT-3.pptx	11/04/2019 04:18	31KB
	Attachments	TestPPT-4.pptx	11/04/2019 04:18	31KB
	BrainCap	TestPPT-5.pptx	11/04/2019 04:18	31KB
	Cloud	TestTXTFile-1.txt	11/04/2019 04:18	56KB
	CloudDocuments	TestTXTFile-2.txt	11/04/2019 04:18	56KB
	Notebooks	🗹 📄 TestTXTFile-3.txt	11/04/2019 04:18	56KB
	🕨 🗌 🛑 Photo	🗹 📄 TestTXTFile-4.txt	11/04/2019 04:18	56KB
	Screenshots	🗹 📄 TestTXTFile-5.txt	11/04/2019 04:18	56KB
	Site Collections	TestWord-1.docx	11/04/2019 04:18	12KB
	TestFiles	☑ 🗋 TestWord-2.docx	11/04/2019 04:18	12KB
	Discrete backupSTOR	TestWord-3.docx	11/04/2019 04:18	12KB
	Image:	TestWord-4.docx	11/04/2019 04:18	12KB
	Image:	TestWord-5.docx	11/04/2019 04:18	12KB
<	>			

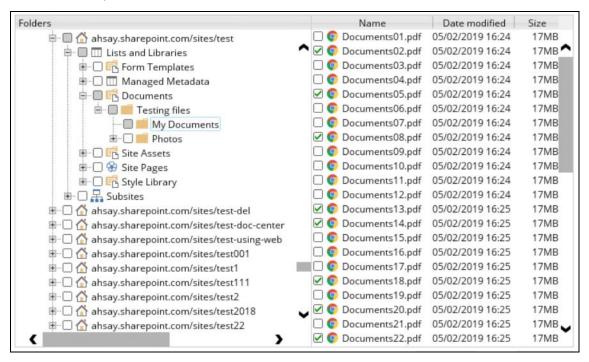
Only selected files and/or folders are selected in OneDrive. Also, the Office 365 user account is greyed out as this indicates that not all items are selected.

**NOTE:** Selective Files and/or Folders only applies to files and/or folders under Outlook, OneDrive, Personal Site, Public Folders, and Site Collections. This is **NOT** applicable for <u>User Level</u>.

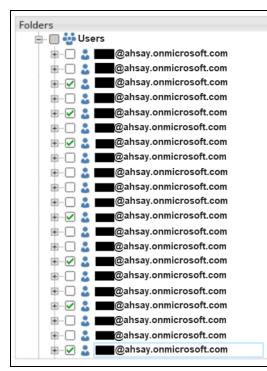
This is an example of selective files and/folders from OneDrive.



This is an example of selective files and/folders from Site Collections.



This is an example of a selective files and/or folders per user level which is not applicable as Data Synchronization Check only works for deselected files and/or folders that will be moved to retention area.



This is also an example of selective files and/or folders per Site Collections.

Folders
🕸 🗆 🗋 ahsay.sharepoint.com/sites/test001
🖭 🗹 斺 ahsay.sharepoint.com/sites/test1
🕮 🗔 斺 ahsay.sharepoint.com/sites/test111
🖲 🗹 斺 ahsay.sharepoint.com/sites/test2
🕮 🗔 斺 ahsay.sharepoint.com/sites/test2018
🖲 🗔 斺 ahsay.sharepoint.com/sites/test22
🗊 🗹 斺 ahsay.sharepoint.com/sites/test23752
🕮 🗔 斺 ahsay.sharepoint.com/sites/test29
🗊 🗹 斺 ahsay.sharepoint.com/sites/test5
🐵 🗔 斺 ahsay.sharepoint.com/sites/testGroup1233
💷 🗌 斺 ahsay.sharepoint.com/sites/testOwner
🗉 🗹 斺 ahsay.sharepoint.com/sites/testOwner123
🕮 🗔 斺 ahsay.sharepoint.com/sites/testOwner1234
🕮 🗔 斺 ahsay.sharepoint.com/sites/testOwner12345
💷 🗔 🏠 ahsay.sharepoint.com/sites/testQuota
🗉 🗹 斺 ahsay.sharepoint.com/sites/testQuota123
💷 🗌 斺 ahsay.sharepoint.com/sites/testTeamSite
💷 🗔 斺 ahsay.sharepoint.com/sites/testVeeamCreation
💷 🗹 🏠 ahsay.sharepoint.com/sites/test_addwebpart
🗉 🗹 斺 ahsay.sharepoint.com/sites/test_license
🕮 🗔 🟠 ahsay.sharepoint.com/sites/test_site_002_2
🗊 🗹 斺 ahsay.sharepoint.com/sites/test_site_1

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On the sample backup log, it shows that data synchronization check is enabled and runs for the first time.

Type	Log	Time	
0	Start [ AhsayOBM v8.3.4.0 ]	05/07/2020 14:11:42	
0	Saving encrypted backup set encryption keys to server	05/07/2020 14:11:42	^
0	Start Backup [In-File Delta: Full]	05/07/2020 14:11:44	
0	Using Temporary Directory /Users/admin/temp/1593790007940/OBS@1593790373096	05/07/2020 14:11:44	
0	Start running pre-commands	05/07/2020 14:11:47	
0	Finished running pre-commands	05/07/2020 14:11:47	
0	Downloading server file list (Office 365)	05/07/2020 14:11:47	
	Downloading server file list (Office 365) Completed	05/07/2020 14:11:58	
0	Run Office 365 Data Synchronization Check (1st time)	05/07/2020 14:12:03	
0	[New Directory] Office 365	05/07/2020 14:12:03	
0	[New Directory] Office 365/Site Collections	05/07/2020 14:12:03	
0	[New Directory] Office 365/Site Collections/D901_ahsay-my.sharepoint.com%2fpersonal%2fyuk_support_cloudbacko	05/07/2020 14:12:04	
0	[New Directory] Office 365/Users	05/07/2020 14:12:05	
0	[New Directory] Office 365/Users/ @ahsay.onmicrosoft.com	05/07/2020 14:12:05	
0	Downloading server file list (@@ahsay.onmicrosoft.com	05/07/2020 14:12:06	
0	Downloading server file list ( @@ahsay.onmicrosoft.con) Completed	05/07/2020 14:12:07	
0	Reading backup source from @ahsay.onmicrosoft.com	05/07/2020 14:12:08	~

On the sample backup log, it shows the countdown until the next data synchronization check which is in two (2) days. The interval set is three (3) days.

Туре	Log	Time	
0	Data integrity check on backup set= "Client Run Office 365 Backup Set" destination= "AhsayCBS" is completed	06/07/2020 16:53:35	
0	Finished data integrity check on backup set "Client Run Office 365 Backup Set(1593790007940)", "AhsayCBS(159379	06/07/2020 16:53:35	^
0	Completed data integrity check on backup set "Client Run Office 365 Backup Set(1593790007940)", "AhsayCBS(1593	06/07/2020 16:53:35	
0	Start running pre-commands	06/07/2020 16:53:35	
0	Finished running pre-commands	06/07/2020 16:53:35	
0	Downloading server file list (Office 365)	06/07/2020 16:53:35	
0	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	06/07/2020 16:53:43	
	Downloading capter file list (Office 365) Completed	06/07/2020 16:53:43	
0	Office 365 Data Synchronization Check will be run after 2 day(s)	06/07/2020 16:53:48	
•	Downloading server file list i and gainsay on initroson.com	06/07/2020 16:53:52	
0	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	06/07/2020 16:54:00	
0	Downloading server file list ( @@ahsay.onmicrosoft.com) Completed	06/07/2020 16:54:00	
0	Reading backup source from @ahsay.onmicrosoft.com	06/07/2020 16:54:01	
0	Reading backup source from @ahsay.onmicrosoft.com Completed	06/07/2020 16:54:01	
0	Start validating the presence and size of backup data in destination "AhsayCBS"	06/07/2020 16:54:02	
0	Finished validating the presence and size of backup data in destination "AhsayCBS"	06/07/2020 16:54:02	
0	Downloading server file list (Office 365/Site Collections/D901_ahsay-my.sharepoint.com%2fpersona%2fyuk_support_cl	06/07/2020 16:54:02	~
A	Saving encrypted backun file index to 1593790007940/blocks/subindex/cc13cf62-567f-3023-b83d-cf00fd0c91ff	06/07/2020 16:54:02	

On the sample backup log, it shows the countdown is done and data synchronization check is running.

Туре	Log	Time	
0	Start [ AhsayOBM v8.3.4.0 ]	08/07/2020 18:35:24	
0	Saving encrypted backup set encryption keys to server	08/07/2020 18:35:25	^
0	Start Backup [In-File Delta: Full]	08/07/2020 18:35:26	
0	Using Temporary Directory /Users/admin/temp/1593790007940/OBS@1593790373096	08/07/2020 18:35:26	
0	Start running pre-commands	08/07/2020 18:35:44	
0	Finished running pre-commands	08/07/2020 18:35:44	
0	Downloading server file list (Office 365)	08/07/2020 18:35:44	
0	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	08/07/2020 18:35:53	
	Downloading capter file list (Office 365) Completed	08/07/2020 18:35:53	
0	Run Office 365 Data Synchronization Check	08/07/2020 18:35:57	
0	Downloading server nie list a generation microsoft.com	08/07/2020 18:36:01	
0	Downloading server file list (Office 365/Site Collections/D901_ahsay-my.sharepoint.com%2fpersonal%2fyuk_support_cl	08/07/2020 18:36:11	
0	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	08/07/2020 18:36:27	
0	Downloading server file list @@ahsay.onmicrosoft.com) Completed	08/07/2020 18:36:27	
0	Reading backup source from @ahsay.onmicrosoft.com	08/07/2020 18:36:28	
0	Reading backup source from @ahsay.onmicrosoft.com Completed	08/07/2020 18:36:28	
0	Start validating the presence and size of backup data in destination "AhsayCBS"	08/07/2020 18:36:28	V
•	Finished validating the presence and size of backup data in destination "AbsavCBS"	08/07/2020 18:36:28	

#### On the sample backup log, it shows that data synchronization check is disabled.

Type	Log	Time	
0	Start [ AhsayOBM v8.3.4.0 ]	09/07/2020 18:59:10	
0	Saving encrypted backup set encryption keys to server	09/07/2020 18:59:10	^
0	Start Backup [In-File Delta: Full]	09/07/2020 18:59:11	
0	Using Temporary Directory /Users/admin/temp/1593790007940/OBS@1593790373096	09/07/2020 18:59:11	
0	Start running pre-commands	09/07/2020 18:59:44	
0	Finished running pre-commands	09/07/2020 18:59:44	
0	Downloading server file list (Office 365)	09/07/2020 18:59:44	
0	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	09/07/2020 18:59:53	
	Downloading server file list (Office 365) Completed	09/07/2020 18:59:53	
0	Office 365 Data Synchronization Check is disabled (Debug option - Office365.DSCInterval = -1)	09/07/2020 18:59:58	
U	Downloading server file list and a management of the server file list and the server file list a	09/07/2020 19:00:01	
0	Downloading server file list (Office 365/Site Collections/D901_ahsay-my.sharepoint.com%2fpersonal%2fyuk_support_cl	09/07/2020 19:00:11	
0	Download valid index files from backup job "Current" to "/Users/admin/temp/1593790007940/OBS@15937903730	09/07/2020 19:00:25	
0	Downloading server file list @@ahsay.onmicrosoft.com) Completed	09/07/2020 19:00:25	
0	Reading backup source from @ahsay.onmicrosoft.com	09/07/2020 19:00:26	
0	Reading backup source from @ahsay.onmicrosoft.com Completed	09/07/2020 19:00:27	
Ð	Start validating the presence and size of backup data in destination "AhsayCBS"	09/07/2020 19:00:27	~
A	Finished validating the presence and size of backup data in destination "Ahsav("RS"	09/07/2020 19:00:27	

## Appendix H: Setting the Data Synchronization Check (DSC)

Data Synchronization Check (DSC) is enabled by default and will run every 60 days. Assumption: AhsayOBM Installation path is **/Users/admin/Applications/AhsayOBM.app** 

To disable the data synchronization check, follow the instructions below:

- 1. Make sure there are no active backup or restore job running.
- 2. Close AhsayOBM UI.
- 3. Stop the Ahsay Online Backup Manager services and check if the scheduler service has stopped running using the command highlighted in red.

```
#sudo /Applications/AhsayOBM.app/bin/StopScheduler.sh
```

```
Password:
#<mark>ps -ef|grep java</mark>
#501 5721 5705 0 9:02PM ttys000 0:00.00 grep java
```

4. Using the terminal, go to AhsayOBM installation path. Use the command highlighted in red.

#cd /Applications/AhsayOBM.app

5. Open the **cb.opt** file using the command highlighted in red. Enter the password for logging in to your Mac when prompted.

```
#sudo vim cb.opt
#Password:
```

6. The following scripts will show.

```
#Print out default values of new backup set to a XML file
# Location: [WORKING_DIR]\DefaultBkupsetProfile.xml
com.ahsay.obc.core.action.GetUserPolicyCmd.debug=
# Print out debug messages for restore/decrypt
# Location: [WORKING_DIR]\DownloadFileSetTree.log
com.ahsay.obc.core.rset.file.DownloadFileSetTree.debug=
# Print out the decrypt list from OBS to restore to a XML file
# Location:
[RESTORE_DESTINATION]\DownloadFileSetTree_[RESTORE_JOB_ID].xml
com.ahsay.obc.core.rset.file.DownloadFileSetTree.SaveXML=
```

Press I to be able to insert a new line and add this line, Office365.DSCInterval=-1.
 A value of -1 indicates data synchronization check is disabled.

```
Office365.DSCInterval=-1
-- INSERT --
```

Press **Esc** + :wq! to save the changes made.

8. To check if the new line is added, use the commands highlighted in red.

#cat cb.opt

9. Start the Ahsay Online Backup Manager services and check if the scheduler service is running using the command highlighted in red.



To check if the data synchronization check is enabled, follow the instructions below:

1. Using the terminal, go to AhsayOBM installation path. Use the command highlighted in red.

#cd /Applications/AhsayOBM.app

2. Open the **cb.opt** file using the command highlighted in red.

#cat cb.opt

3. Look for this line, Office365.DSCInterval=xx.

Note:

If xx is a positive value this indicates the data synchronization check is enabled and represents the interval number of days until the next run of data synchronization check.

-OR-

If the interval value is not -1.

To adjust the interval number of days, follow the instructions below:

- 1. Make sure there are no active backup or restore job running.
- 2. Close AhsayOBM UI.
- 3. Stop the Ahsay Online Backup Manager services and check if the scheduler service has stopped running using the command highlighted in red.

```
#sudo /Applications/AhsayOBM.app/bin/StopScheduler.sh
Password:
#ps -ef|grep java
#501 5721 5705 0 9:02PM ttys000 0:00.00 grep java
```

4. Using the terminal, go to AhsayOBM installation path. Use the command highlighted in red.

```
#cd /Applications/AhsayOBM.app
```

5. Open the **cb.opt** file using the command highlighted in red. Enter the password for logging in to your Mac when prompted.

```
#sudo vim cb.opt
```

*#Password:* 

6. The following scripts will show.

```
#Print out default values of new backup set to a XML file
# Location: [WORKING_DIR]\DefaultBkupsetProfile.xml
com.ahsay.obc.core.action.GetUserPolicyCmd.debug=
# Print out debug messages for restore/decrypt
# Location: [WORKING_DIR]\DownloadFileSetTree.log
com.ahsay.obc.core.rset.file.DownloadFileSetTree.debug=
# Print out the decrypt list from OBS to restore to a XML file
# Location:
[RESTORE_DESTINATION]\DownloadFileSetTree_[RESTORE_JOB_ID].xml
com.ahsay.obc.core.rset.file.DownloadFileSetTree.SaveXML=
```

#### Office365.DSCInterval=60

7. Change the interval number by pressing I.

For example:

Current interval: Office365.DSCInterval=60

```
Office365.DSCInterval=60
-- INSERT --
```

Updated interval: Office365.DSCInterval=10

```
Office365.DSCInterval=-10
-- INSERT --
```

```
www.ahsay.com
```

Explanation:

On the current interval, the number of days is 60. While, the updated interval, the number of days is reduced to 10.

#### WARNING!

If the interval value is 0, Office365.DSCInterval=0, then the Data Synchronization Check (DSC) will run for every backup job.

Press **Esc** + :wq! to save the changes made.

8. To check if the new line is added, use the commands highlighted in red.

#cat cb.opt

9. Start the Ahsay Online Backup Manager services and check if the scheduler service is running using the command highlighted in red.

```
#sudo /Applications/AhsayOBM.app/bin/Scheduler.sh
Password:
#ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07
/Applications/AhsayOBM.app/jvm/bin /java -Xms128m -Xmx768m -
Djava.library.path=. -cp .:./cbs.jar cbs
/Applications/AhsayOBM.app 501 5741 5705 0 9:05PM ttys000
0:00.00 grep java
```

# Appendix I: Steps on How to Increase the Number of Concurrent Backup Threads

Assumption: AhsayOBM Installation path is /Users/admin/Applications/AhsayOBM.app

To increase the number of concurrent backup threads, follow the instructions below:

- 1. Make sure there are no active backup or restore job running.
- 2. Close AhsayOBM UI.
- 3. Stop the Ahsay Online Backup Manager services and check if the scheduler service has stopped running using the command highlighted in red.

```
#sudo /Applications/AhsayOBM.app/bin/StopScheduler.sh
Password:
#ps -ef|grep java
#501 5721 5705 0 9:02PM ttys000 0:00.00 grep java
```

4. Using the terminal, go to AhsayOBM installation path. Use the command highlighted in red.

#cd /Applications/AhsayOBM.app

5. Open the **afc.opt** file using the command highlighted in red. Enter the password for logging in to your Mac when prompted.

```
#sudo vim afc.opt
#Password:
```

6. The following scripts will show.

```
#com.ahsay.afc.adt.Queue.debug=
#com.ahsay.afc.adt.Queue.info=
```

#com.ahsay.afc.bfs.AccessManager.debug=

 Press I to be able to insert a new line and add this line, obx.core.backup.file.BackupResourceManager.maxConcurrentSubCmd=xx.

A xx value indicates the number of threads. Minimum thread is 1.

obx.core.backup.file.BackupResourceManager.maxConcurrentSubCmd=8
-- INSERT --

#### NOTE

Increasing the number of concurrent backup threads does not guarantee that the overall backup speed will be faster since there will be an increased chance of throttling by Microsoft Office 365.

Press **Esc** + :wq! to save the changes made.

8. To check if the new line is added, use the commands highlighted in red.

#cat afc.opt

9. Start the Ahsay Online Backup Manager services and check if the scheduler service is running using the command highlighted in red.

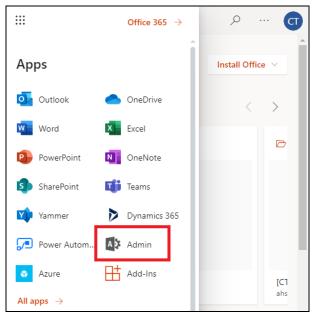
```
#sudo /Applications/AhsayOBM.app/bin/Scheduler.sh
Password:

#ps -ef|grep java
0 5735 1 0 9:05PM ttys000 0:02.07
/Applications/AhsayOBM.app/jvm/bin /java -Xms128m -Xmx768m -
Djava.library.path=. -cp .:./cbs.jar cbs
/Applications/AhsayOBM.app 501 5741 5705 0 9:05PM ttys000
0:00.00 grep java
```

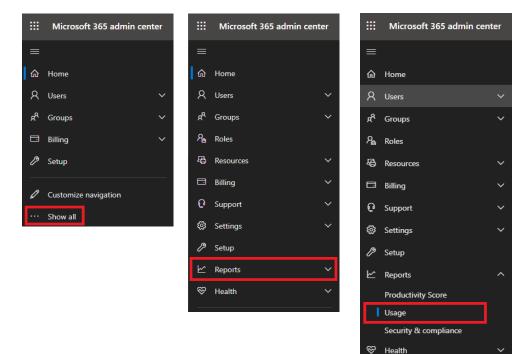
### Appendix J: Steps on How to view Item count and Storage used in Microsoft 365 Admin Center

To view the item count and storage size of Office 365 user account based on the usage for Exchange (Outlook), OneDrive, and SharePoint, follow the instructions below:

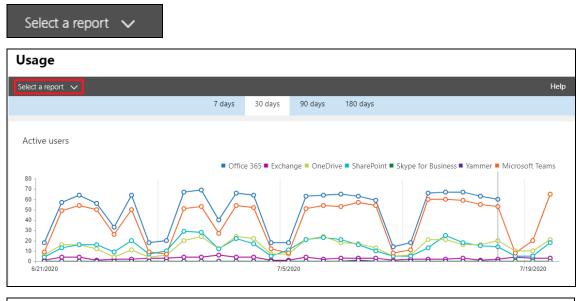
- 1. Log in to the Office 365 (https://login.microsoft.com).
- 2. Go to Microsoft 365 admin center.

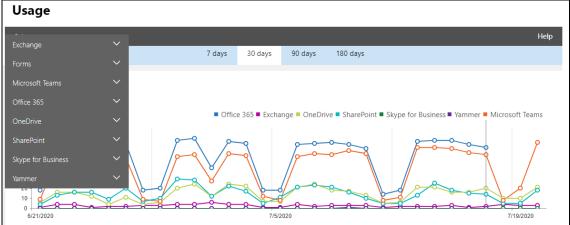


3. On the Microsoft 365 admin center, click **Show all** then click the dropdown arrow for the **Reports** and select **Usage**.



4. On the Usage screen, select a report you want to view.





5. For Exchange, go to Mailbox usage.



Highlighted columns are, Item count and Storage used (MB).

- Item count number of mailbox items in Outlook per Office 365 user account
- Storage used (MB) storage used in MB size per Office 365 user account

Details									± Export
Username	≡	Last activity date (UTC)	≡	Item count	≡	Storage used (MB)	=	Quota status	$\equiv$
@al	isay.onmicrosoft.co	m			9,597		1,383	Good (under limits)	
@ah	say.onmicrosoft.co	m			9,607		1,383	Good (under limits)	
@ah	say.onmicrosoft.co	m			9,634		1,383	Good (under limits)	
@ah	say.onmicrosoft.co	m			9,597		1,383	Good (under limits)	
@ah	say.onmicrosoft.co	m			9,597		1,383	Good (under limits)	
@ah	say.onmicrosoft.co	m			9,585		1,384	Good (under limits)	

#### 6. For **OneDrive**, go to **Usage**

OneDrive usage V 7 days 30 days 90 days 180 days Accounts Files Storage Data as of: Monday, July 20, 2020	
7 days 30 days 90 days 180 days % crosoft Teams % crosoft *	He
Minimum conserved and the serve of the serve	
Portice 355 Exchange OneDrive SharePoint Skype for Business Yammer Microsoft Activity Usage harePoint kype for Business ammer Extractor DreDrive usage Chechrice usag	
Activity Large harePoint type for Business ammer Britizzzo DreDrive usage Accounts Eless Storage Number of total and active files Detata soft Menday, July 20, 2020 Number of total and active files Detata soft Menday, July 20, 2020 Number of total and active files Detata soft Menday, July 20, 2020 Number of total and active files Detata soft Menday, July 20, 2020 Number of total and active files Detata soft Menday, July 20, 2020 Number of total and active files Detata soft Menday, July 20, 2020 Total files Active files Detata soft Menday, July 20, 2020 Total files Active files Detata soft Menday, July 20, 2020 Total files Active files	
Usage harehoint kype for Business arrimer <ul> <li></li></ul>	oft Teams
harePoint kype for Business ammer extruzed T days T days	9
OreDrive usage     7 days     30 days     90 days     180 days	00
7 days     30 days     90 days     180 days       Accounts     Image: Storage     Data as of: Monday, July 20, 2020       Number of total and active files     Image: Storage       500K 400K 300K 200K 100K 100K 100K 100K 100K     Image: Storage       200K 100K 100K 100K     Image: Storage       200K 100K 100K     Image: Storage       200K 100K     Image: Storage	19/2020
Accounts Files Storage Data sof: Monday, July 20, 2020 Number of total and active files	He
Number of total and active files       500k       400k       350k       300k       250k       100k       100k    <	
500K 450K 400K 300K 250K 200K 100K 50K 0 6/21/2020 7/5/2020 Total files Active files OneDrive usage	020 (UTC)
450K 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	± Export
0	••0
DneDrive usage 🗸	9/2020
7 days 30 days 90 days 180 days	He
Accounts Files Storage Data as of: Monday, July 20, 2020	020 (UTC)
Amount of storage used	± Export
2.8TB -	<b>~~~</b> 0
2.8TB - 2.7TB -	
27TB 26TB 26TB	
2.5TB	
	9/2020

Highlighted columns are, Files and Storage used (MB).

- Files number of files in OneDrive per Office 365 user account
- Storage used (MB) storage used in MB size per Office 365 user account

Details					± Expo
URL $\equiv$	Owner principal name 🕇 🗮	Last activity date (UTC)	Files 🗧	Active files $\blacksquare$	Storage used (MB) 🛛 🗮
https://ahsay- my.sharepoint.com/personal/	@ahsay.onmicrosoft.com	Tuesday, July 14, 2020	8	48	52
https://ahsay- my.sharepoint.com/personal/ sharepoint001	@ahsay.onmicrosoft.com	Monday, February 17, 2020	11,021	c	5,697
https://ahsay- my.sharepoint.com/personal/	@ahsay.onmicrosoft.com	Tuesday, July 14, 2020	0	29	2
https://ahsay- my.sharepoint.com/personal/	@ahsay.onmicrosoft.com	Monday, July 20, 2020	28,226	694	47,882
https://ahsay- my.sharepoint.com/personal/	@ahsay.onmicrosoft.com	Tuesday, July 07, 2020	32	226	45



7. For SharePoint, go to Site usage.



Highlighted columns are, Files and Storage used (MB).

- Files number of files in SharePoint per Office 365 user account
- Storage used (MB) storage used in MB size per Office 365 user account

Details						± Export
Site URL	Site owner principal name 🕇	Last activity date (U =	Files 🔳	Active files $\equiv$	Storage used (MB) 🔳	Page views 🔳
https://ahsay.sharepoint.c	@ahsay.onmicrosoft.com	Monday, June 15, 2020	7	0	3	0 🔶
https://ahsay.sharepoint.c	@ahsay.onmicrosoft.com	Thursday, February 13, 2020	6	0	2	0
https://ahsay.sharepoint.c	@ahsay.onmicrosoft.com	Friday, October 04, 2019	4	0	2	0
https://ahsay.sharepoint.c	@ahsay.onmicrosoft.com	Sunday, October 06, 2019	5	O	2	0
https://ahsay.sharepoint.c	@ahsay.onmicrosoft.com	Thursday, July 16, 2020	8	1	10	7
https://ahsay.sharepoint.c	@ahsay.onmicrosoft.com	Thursday, February 06, 2020	6	0	3	0



## Appendix K: Migrating Authentication of Office 365 Backup Set

Starting with AhsayOBM v8.3.6.0 or above, existing backup sets are suggested to use Modern Authentication. This will ensure that moving forward, there will be no backup and restore issues to be encountered once Microsoft implements its product roadmap for Modern Authentication. This only needs to be done once per Office 365 user account.

Existing Office 365 backup sets may have been created using an ordinary Office 365 account or an Office 365 account with the Global Admin role. The following are the required Office 365 account that must be used to authorize the migration of authentication of the existing Office 365 backup set:

- When migrating to Hybrid Authentication, any type of Office 365 account may be used to authorize the migration of authentication.
- When migrating to Modern Authentication, if the existing Office 365 backup set was created using an ordinary Office 365 account, an Office 365 Global Admin account is required to be used to login their credentials to authorize the migration of authentication.

The following are the two (2) migration scenarios:

- Basic Authentication to Hybrid Authentication
- Basic Authentication to Modern Authentication
  - using an ordinary Office 365 account
  - using an Office 365 account with Global Admin role

NOTE

Due to the current limitation with Microsoft API, Modern Authentication is currently not suitable for backup sets with Personal Sites and/or SharePoint Sites selected. As a temporary workaround, for Office 365 backup sets which require backup of Personal Sites and/or SharePoint Sites selected, these backup sets are suggested to use the Hybrid Authentication until the issue has been resolved by Microsoft.

To migrate a backup set from **Basic Authentication to Hybrid Authentication**, follow the instructions below:

- 1. Log out all Office 365 account(s) on the default browser before starting the migration of backup set.
- 2. In the AhsayOBM main interface, click Backup Sets.



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3. Select the backup set that you want to migrate to Hybrid Authentication.

	<b>Backup Sets</b>	
		Sort by Creation Time
Office 365	Run on Client Office 365 Backup Set Owner: Mac1014 Newly created on Wednesday, 16 September 2020 16:36	

#### 4. Click Continue.



#### 5. Click Authorize.

Click [Aut]	horizel and i	n the pop-up bro	wser window, sign i	in vour Microsoft	account
			ion (if necessary)		
authorizat	ion code to t	the textbox and	nit [OK] to complete	the authenticati	ion.

6. Sign in to your Microsoft account.

Microsoft		
Sign in		
@ahsay.c	onmicrosoft.com	
No account? Create or	ne!	
C 4		
Can't access your acco	ount?	
Sign-in options	ount?	
	Back	Next

www.ahsay.com

Microsoft	
← @ahsay.onmicrosoft	t.com
Enter password	
*******	
Forgot my password	
	Sign in

7. If MFA is enforced, enter the verification code sent to your mobile device and click **Verify**. Otherwise, proceed to the next step.

Microsoft	
@ahsay.onmicrosoft.com	n
Enter code	
☐ We texted your phone +XX XX enter the code to sign in.	0000000023. Please
083116	
Don't ask again for 14 days	
Having trouble? Sign in another way	
More information	
	Verify
More information	Verify

NOTE

The verification code is only required if the MFA status of an Office 365 account is enforced.

8. Copy the authorization code.



9. Go back to AhsayOBM and paste the authorization code. Click **OK** to proceed.



10. Click **Save** to finish the migration.

Run on Client Offi	General Name	
General	Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username @ahsay.onmicrosoft.com Region Global Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel

To migrate a backup set from **Basic Authentication to Modern Authentication using an ordinary Office 365 account**, follow the instructions below:

- 1. Log out all Office 365 account(s) on the default browser before starting the migration of backup set.
- 2. In the AhsayOBM main interface, click **Backup Sets**.



3. Select the backup set that will be migrated.

	<b>Backup Sets</b>		
		Sort by	
		Creation Time	~
Office 365	Run on Client Office 365 Backup Set Owner: Mac1014 Newly created on Wednesday, 16 September 2020 16:36		

#### 4. Click Continue.

5.

In order to enhance security of Office 365 backup service you update the Office 365 backup setting to use modern	
	Continue Update later
lick Authorize.	
Click [Authorize] and in the pop-up browser window, sign in and authorize the backup application (if necessary), authorization code to the textbox and hit [OK] to complete t	copy and paste the

6. Ask your administrator to sign in using an Office 365 account with Global Admin role in order to migrate the backup set.

Microsoft			
Sign in			
@ahsay.@	onmicrosoft.com		
No account? Create o	ne!		
Can't access your acco	ount?		
Sign-in options			
	Back	Next	
Microsoft			
← @ahsa	ay.onmicrosoft.co	om	
Enter passwo	ord		
Forgot my password			
		Sign in	

7. If MFA is enforced, enter the verification code sent to your mobile device and click **Verify**. Otherwise, proceed to the next step.

Microsoft
@ahsay.onmicrosoft.com
Enter code
We texted your phone +XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
083116
Don't ask again for 14 days
Having trouble? Sign in another way
More information
Verify

### **NOTE** The verification code is only required if the MFA status of an Office 365 account is enforced.

8. Copy the authorization code.



9. Go back to AhsayOBM and paste the authorization code. Click OK to proceed.



10. Click Save to finish the migration.

Run on Client Offi	General Name Run on Client Office 365 Backup Set
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username @ahsay.onmicrosoft.com Region Global V Access the Internet through proxy Change settings
Delete this backup set	Save Cancel

To migrate a backup set with **Basic Authentication to Modern Authentication using an Office 365** account with a Global Admin role, follow the steps below:

- Log out all Office 365 account(s) on the default browser before starting the migration of backup set.
- 2. In the AhsayOBM main interface, click Backup Sets.



3. Select the backup set that will be migrated.



4. Click Continue.



#### 5. Click Authorize.

		pop-up browser p application				
authorizatio	on code to the te	xtbox and hit [O	K] to complete	the authentic	ation.	
						-
					Authorize	Car

#### 6. Sign in to your account.

Microsoft		
Sign in		
@ahsay.on	microsoft.com	
No account? Create one	I	
Can't access your accou	nt?	
Sign-in options		
	Back	Next
Microsoft		
_	.onmicrosoft.co	- m
-		
Enter passwor	ď	
•••••		
Forgot my password		
		Sign in

7. If MFA is enforced, enter the verification code sent to your mobile device and click **Verify**. Otherwise, proceed to the next step.

Microsoft
@ahsay.onmicrosoft.com
Enter code
We texted your phone +XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
083116
Don't ask again for 14 days
Having trouble? Sign in another way
More information
Verify

### **NOTE** The verification code is only required if the MFA status of an Office 365 account is enforced.

8. Copy the authorization code.



9. Go back to AhsayOBM and paste the authorization code. Click OK to proceed.



10. Click **Save** to finish the migration.

Run on Client Offi	General Name	
General	Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username @ahsay.onmicrosoft.com Region Global Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel

## Appendix L: Steps on How to Change the Office 365 Authentication

After upgrading to AhsayOBM v8.3.6.0 or above, all newly created Office 365 backup sets will automatically start using Modern Authentication. However, if the user has selected Personal Sites and/or SharePoint Sites for Office 365 backup, this will not be possible on an Office 365 backup set using Modern Authentication due to limitations with Microsoft API. To resolve this issue, a change from Modern Authentication to Hybrid Authentication is needed. Please refer to Chapters <u>2.16.1</u> and <u>2.16.2</u> for the complete list of backup and restore limitations using Modern Authentication.

Once the backup and restore of SharePoint Web Parts and Metadata is fully supported using Modern Authentication, Office 365 backup sets using Hybrid Authentication can be changed back to Modern Authentication.

The following are the two (2) types of authentication change:

- Modern Authentication to Hybrid Authentication
- Hybrid Authentication to Modern Authentication

To change the authentication from **Modern Authentication to Hybrid Authentication**, follow the instructions below:

- 1. Logout all Office 365 account on the default browser before starting the authentication change of the backup set.
- 2. In the AhsayOBM main interface, click Backup Sets.



3. Select the backup set that you want to change to Hybrid Authentication.



4. In the Backup Set Settings, click **Change settings** under the Office 365 screen.

Run on Client Offi	General Name	
General	Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username @ahsay.onmicrosoft.com Region Clobal Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel

5. In the Office 365 credentials page, **input the Office 365 login account and password** then click **Next**.

	@ahsay.onmicrosoft.com
Account p	
App pass (Required Region	ord f Multi-Factor Authentication is enforced)

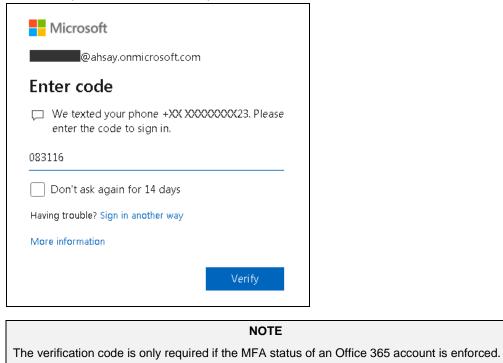
6. Click Authorize to start the authentication change process.

Click [Authorize] and in the pop-up browser window, sign in your Microsoft account and authorize the backup application (if necessary), copy and paste the authorization code to the textbox and hit [OK] to complete the authentication.
Authorize Cancel

7. Sign in to your account.

Microsoft			
Sign in			
@ahsay.or	microsoft.com		
No account? Create one	ı!		
Can't access your accou	nt?		
Sign-in options			
	Back	Next	
	Back	Next	
	Back	Next	
Microsoft	Back	Next	
←@ahsay			
← <b>@ahsay</b>	.onmicrosoft.co		
_	.onmicrosoft.co		
← <b>@ahsay</b>	.onmicrosoft.co		
← <b>@ahsay</b>	.onmicrosoft.co		
← @@ahsay Enter passwoi	.onmicrosoft.co		

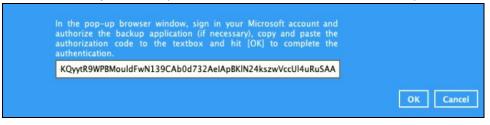
8. If MFA is enforced, enter the verification code sent to your mobile device and click **Verify**. Otherwise, proceed to the next step.



9. Copy the authorization code.



10. Go back to AhsayOBM and paste the authorization code. Click OK to proceed.



11. Click **Save** to finish the authentication change of the backup set.

Run on Client Offi	General Name	
General	Run on Client Office 365 Backup Set Owner	
Source	Mac1014	
Backup Schedule	Office 365	
Destination	Username	
Show advanced settings	Change settings	
Delete this backup set		Save Cancel

To change the authentication from **Hybrid Authentication to Modern Authentication**, follow the instructions below:

- 1. Logout all Office 365 account on the default browser before starting the authentication change of the backup set.
- 2. In the AhsayOBM main interface, click Backup Sets.



3. Select the backup set that you want to change to Modern Authentication.



4. In the Backup Set Settings, click **Change settings** under the Office 365 screen.

Run on Client Offi	General Name Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username @ahsay.onmicrosoft.com Region Clobal V Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel

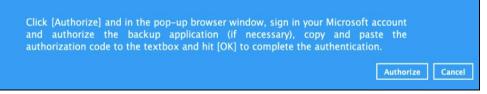
5. In the Office 365 credentials page, remove the Account password then click Next.

Usernam		
	@ahsay.onmicrosoft.com	
Account	assword	
App pass	vord	
App pass (Requirec	vord if Multi-Factor Authentication is enford	ced)
		ced)

6. Click I understand the limitation and confirm to proceed.



7. Click Authorize to start the authentication change process.



8. Sign in to your account.

Sign in		
@ahsay.	onmicrosoft.com	
No account? Create o	ne!	
No account? Create o Can't access your acco Sign-in options		
Can't access your accc		

Microsoft	
eahsay.onmicros	oft.com
Enter password	
•••••	
Forgot my password	
	Sign in

9. If MFA is enforced, enter the verification code sent to your mobile device and click **Verify**. Otherwise, proceed to the next step.

Microsoft	
@ahsay.onmicrosoft.com	n
Enter code	
We texted your phone +XX XX enter the code to sign in.	000000023. Please
083116	
Don't ask again for 14 days	
Having trouble? Sign in another way	
More information	
	Verify

NOTE

The verification code is only required if the MFA status of an Office 365 account is enforced.

10. Copy the authorization code.





11. Go back to AhsayOBM and paste the authorization code. Click **OK** to proceed.



12. Click **Save** to finish the authentication change of the backup set.

Run on Client Offi	General Name Run on Client Office 365 Backup Set	
Source Backup Schedule Destination Show advanced settings	Owner Mac1014 Office 365 Username Sahsay.onmicrosoft.com Region Global Access the Internet through proxy Change settings	
Delete this backup set		Save Cancel