

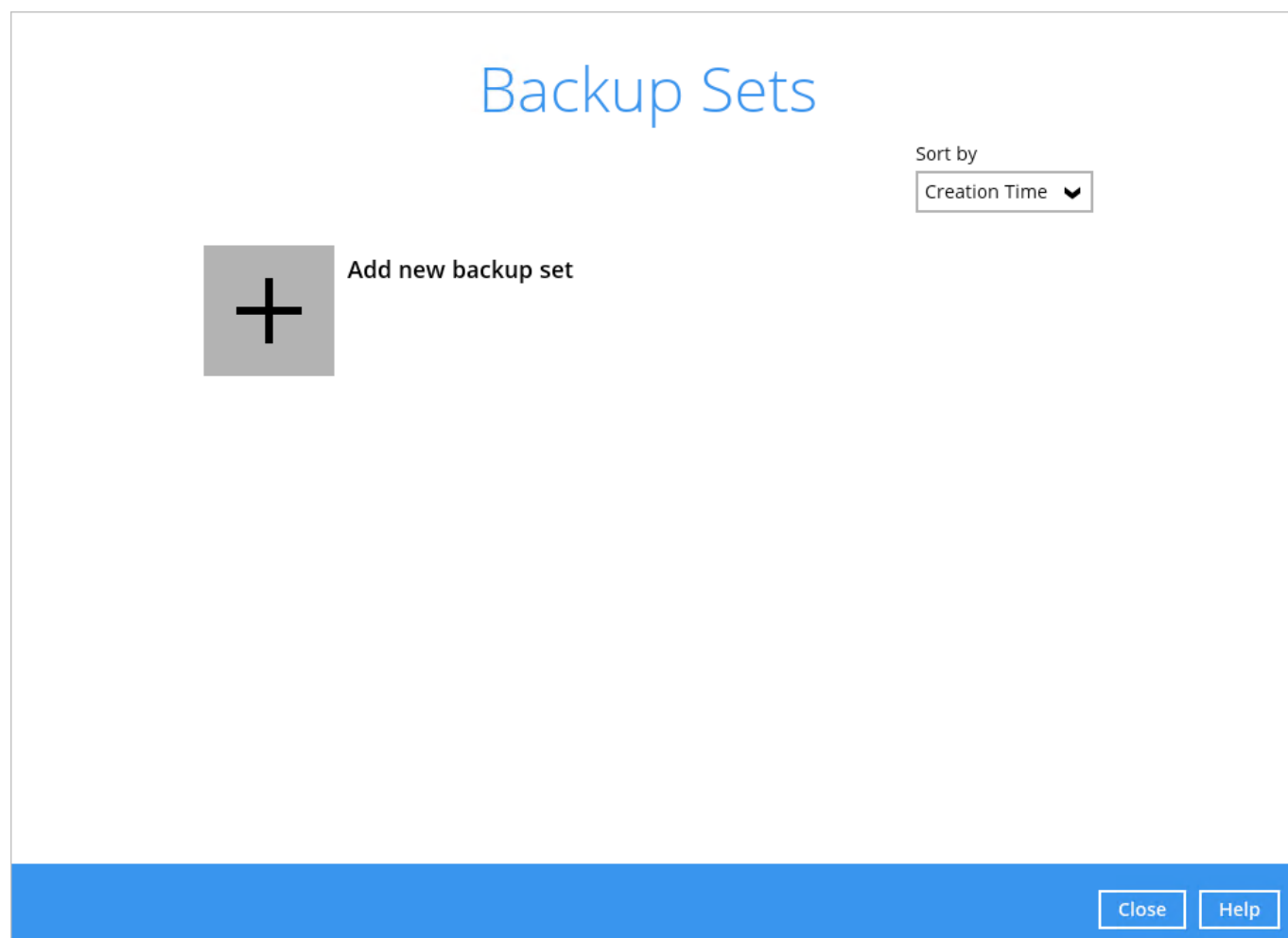
## 4.2 Mail-Level Backup and Restore On Exchange Server Database Availability Group (DAG)

### 4.2.1 Create Mail Level Backup Set

4.2.1.1. Click the **Backup Sets** icon on the main interface of AhsayOBM.

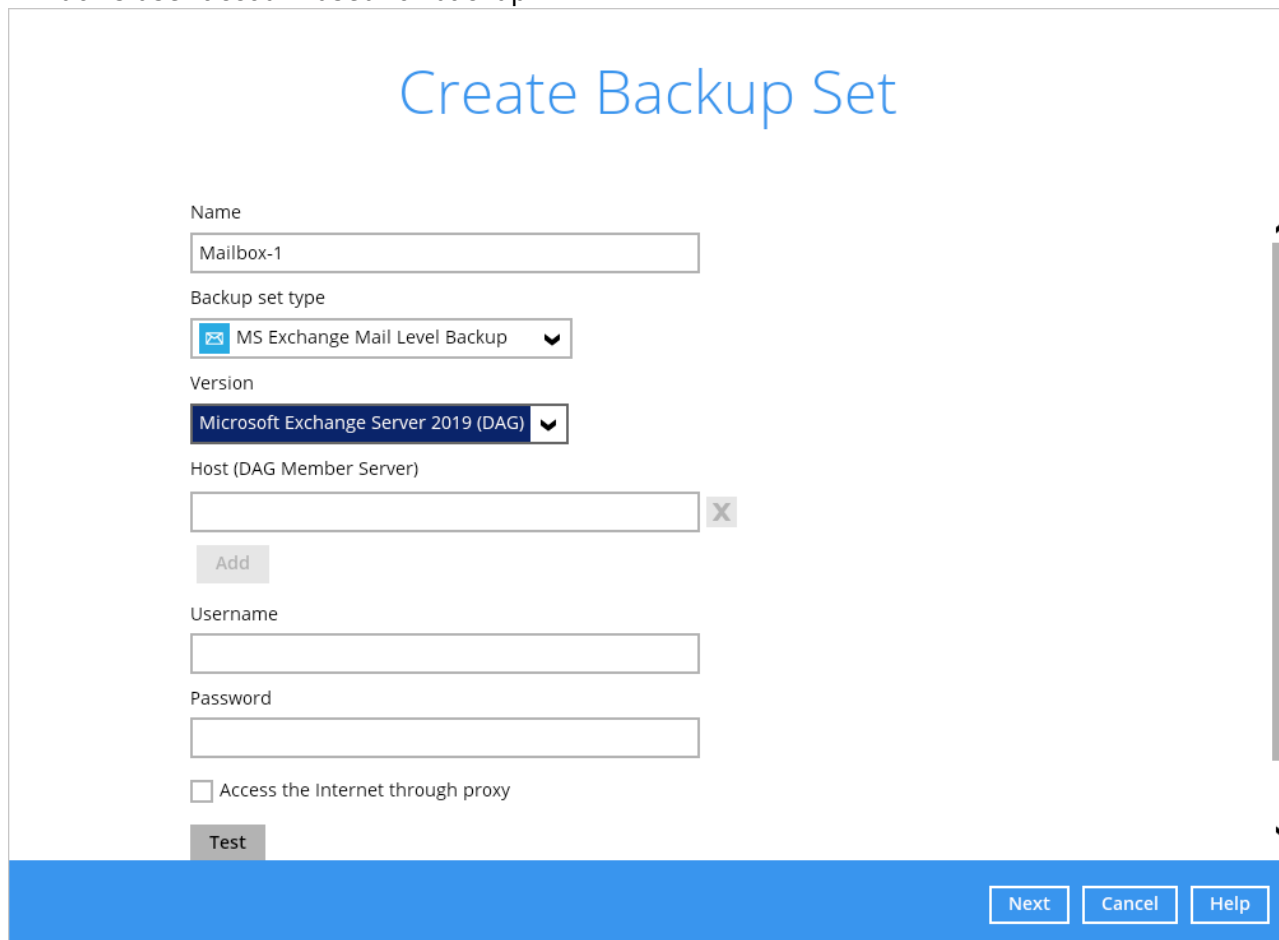


4.2.1.2. Create a new backup set by clicking the "+" icon next to Add new backup set.



4.2.1.3. Select the Backup set type as **MS Exchange Mail Level Backup**. The system will automatically detect and select the Exchange Server DAG version, make sure the version selected is correct.

- Enter the hostname of all the DAG Member Server, and the username and password of the Windows user account used for backup.



Create Backup Set

Name  
Mailbox-1

Backup set type  
MS Exchange Mail Level Backup

Version  
Microsoft Exchange Server 2019 (DAG)

Host (DAG Member Server)  
 X

Add

Username

Password

☐ Access the Internet through proxy

Test

Next Cancel Help

- Check the “Access the Internet through proxy” if required.

4.2.1.4. In the Backup Source menu, select the mailboxes or public folders for backup. You can click to expand the mailbox or public folder to select which mail folder to back up. You can also click Show mails to select individual mail to back up. Click Next to proceed when you are done.



4.2.1.5. In the Schedule menu, you can configure a backup schedule for backup job to run automatically at your specified time interval. By default, the Run scheduled backup for this backup set option is disabled. Enable it then click the “+” icon next to Add new schedule. Click Next to proceed when you are done setting.

# Schedule

Run scheduled backup for this backup set

off ☐

Previous Next Cancel Help

4.2.1.6. In the Destination menu, select a backup destination where the backup mail will be stored. Click the “+” icon next to **Add new storage destination / destination pool**.

# Destination

Backup mode

Sequential ▼

Existing storage destinations

+ Add new storage destination / destination pool

^ v

Previous Next Cancel Help

4.2.1.7. Select the destination storage, then click OK to proceed.

## New Storage Destination / Destination Pool

Name

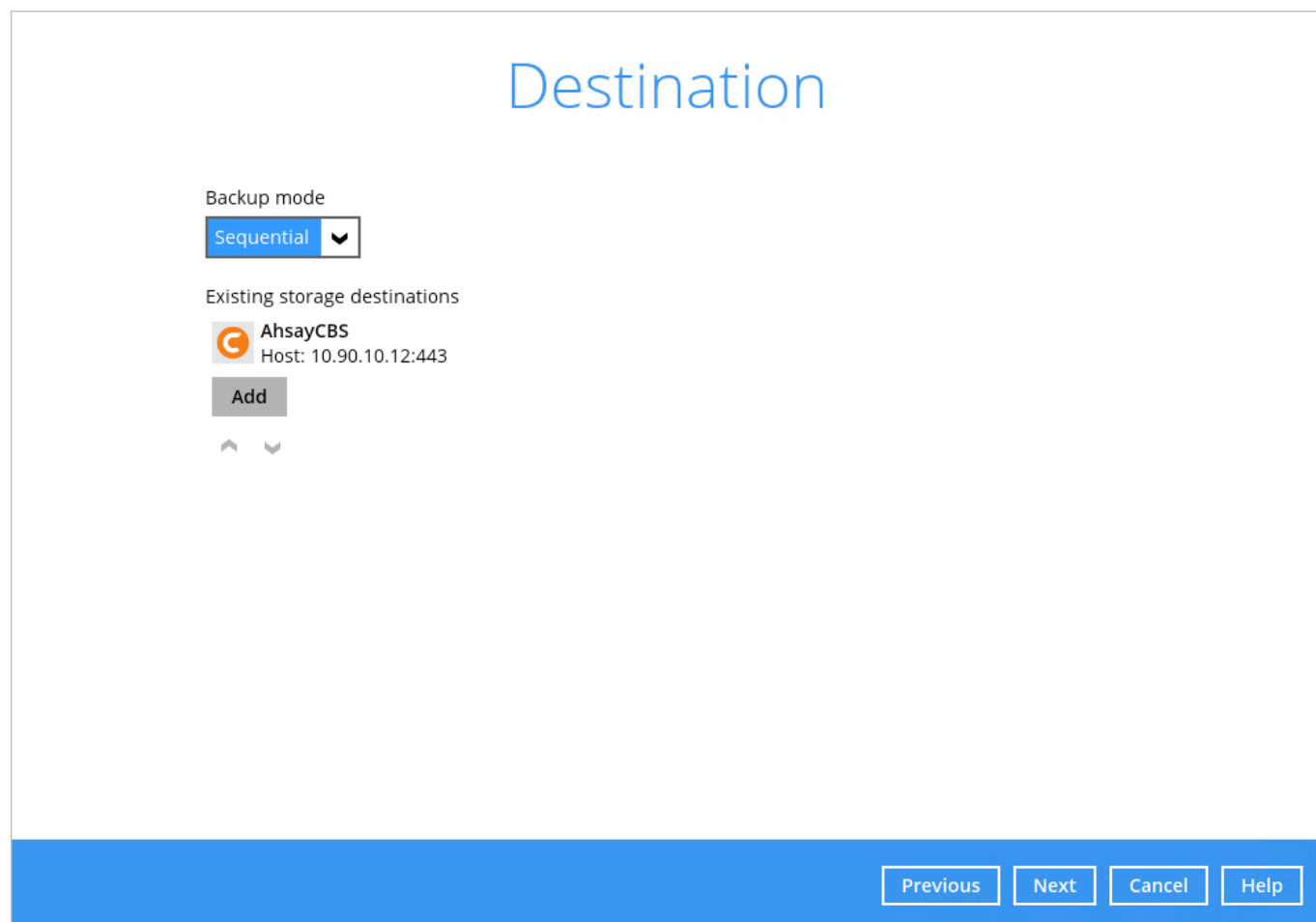
AhsayCBS

Destination storage

AhsayCBS ▼

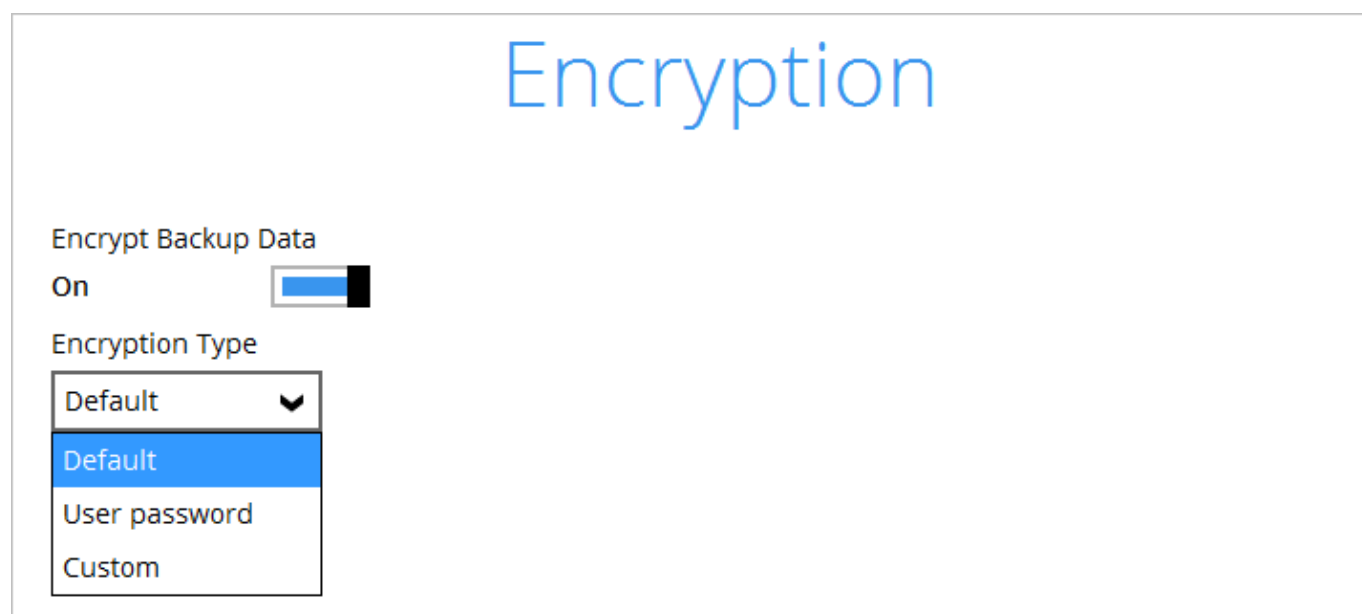
OK Cancel Help

4.2.1.8. Click Next on the Destination menu page to proceed.



The screenshot shows the 'Destination' configuration window. At the top, the title 'Destination' is displayed in a large blue font. Below the title, there is a 'Backup mode' section with a dropdown menu currently set to 'Sequential'. Underneath, the 'Existing storage destinations' section lists one destination: 'AhsayCBS' with the host '10.90.10.12:443'. An 'Add' button is located below the list, and up/down arrow icons are positioned at the bottom of the list area. At the bottom of the window, a blue bar contains four buttons: 'Previous', 'Next', 'Cancel', and 'Help'.

4.2.1.9. 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.



The screenshot shows the 'Encryption' configuration window. The title 'Encryption' is at the top in a large blue font. Below the title, the 'Encrypt Backup Data' option is set to 'On', indicated by a blue slider. Underneath, the 'Encryption Type' section features a dropdown menu with 'Default' selected. The dropdown menu is open, showing four options: 'Default' (highlighted in blue), 'User password', and 'Custom'. The 'Default' option is also visible in the dropdown's header area.

4.2.1.10. 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 set is created. Please be reminded that if you change the AhsayOBM login password later, the encryption keys of the backup sets previously created with this encryption type will remain unchanged.
- **Custom** – you can customize your encryption key, where you can set your own algorithm, encryption key, method and key length.



For best practice on managing your encryption key, refer to the following article: [Best Practices for Managing Encryption Key on AhsayOBM or AhsayACB](#)

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



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

- **Unmask encryption key** – The encryption key is masked by default. Click this option to show the encryption key.
- **Copy to clipboard** – Click to copy the encryption key, then you can paste it in another location of your choice.
- **Confirm** – Click to exit this pop-up window and proceed to the next step



4.2.1.12. Enter the Windows login credentials for user authentication. Click Next to proceed. The User name should be entered in the following format “user@hostname”, i.e. administrator@ahsay.com

The Windows User Authentication interface will show only if scheduled backup is enabled and set successfully.

4.2.1.13. The following screen shows when the new backup set is created successfully.

# Congratulations!

"MS Backup 2016 Mail Level BAcup (DAG)" is successfully creat...

[Backup now](#)[Close](#)

4.2.1.14. Click Backup now to start a backup immediately, or run a backup job later by following the instructions in Run Mail Level Backup Job.

## 4.2.2 Run Mail Level Backup Job

As mentioned in the [Requirement](#) section of this guide, if you choose to back up an Exchange DAG setup by installing AhsayOBM on each DAG members, only a scheduled backup that is performed on all DAG members at the scheduled time, will be considered a complete backup. AhsayOBM on all DAG members will start a backup, based on the scheduled time of the backup set at the same time.

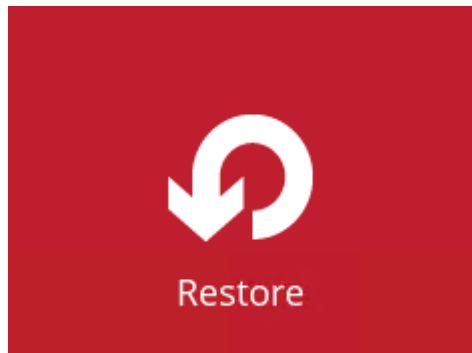
A manual backup performed only on individual DAG member will not be considered complete.

Please refer to the [Scheduled Backup for Exchange Server in Data Availability Group \(DAG\) Option](#) for details.

## 4.2.3 Restore Mail Level Backup

Below are the steps of the restore process for mail-level backup in DAG.


4.2.3.1. In the AhsayOBM main interface, click the Restore icon.



4.2.3.2. Select the backup set that you would like to restore mail from.

## Please Select The Backup Set To Restore

Sort by  
Creation Time ▼



**MS Backup 2016 Mail Level BACKup (DAG)**  
Owner: XCH2016Mbx02  
Newly created on Tuesday, March 05, 2019 14:12

[Close](#) [Help](#)

4.2.3.3. Select the backup destination that contains the mail(s) that you would like to restore.



# Select The Destination From Which To Restor...



MS Backup 2016 Mail Level BAckup (DAG)



AhsayCBS

Host: 10.90.10.12:443

Previous

Cancel

Help

4.2.3.4. Click to expand the menu tree to select which mailbox to restore. You can also select mail item(s) from a specific backup job or all mail items that you have backed up to restore. Click Next to proceed.

# Select Your Mail Objects To Be Restored

Select what to restore

Choose from files as of job 03/05/2019 Latest

Show filter

Folders	Subject	Date modified	Size
AhsayCBS			
10.16.6.81			
Mailboxes			
backup@xch16			

Search

Items per page 50 Page -

Previous Next Cancel Help

4.2.3.5. Select to restore the mail to their Original location, Alternate location or to an Alternate host.

- **Restore to Original Location** - Select the **Original location** option. If you would like to modify the Verify checksum of in-file delta files setting, click **Show advanced option**. Then press **Next** to proceed.

## Choose Where The Mail Objects To Be Restor...

Restore mail objects to

- ☒ Original location  
☐ Alternate location  
☐ Alternate host

[Show advanced option](#)

[Previous](#)[Next](#)[Cancel](#)[Help](#)

## Choose Where The Mail Objects To Be Restor...

Restore mail objects to

- ☒ Original location  
☐ Alternate location  
☐ Alternate host

☐ Verify checksum of in-file delta files during restore

[Hide advanced option](#)

[Previous](#)[Next](#)[Cancel](#)[Help](#)

- **Restore to Alternate Mailbox** - You can choose to restore mailbox item(s) to another mailbox in the same Exchange server. Select the **Alternate location** option. If you would like to modify the Verify checksum of in-file delta files setting, click **Show advanced option** then press **Next**. Select the desired mailbox destination, then press Next to proceed.

# Choose Where The Mail Objects To Be Restor...

Restore mail objects to

- ☐ Original location  
☒ Alternate location  
☐ Alternate host

[Show advanced option](#)

Previous

Next

Cancel

Help

## Alternate Location

Host

10.16.6.81

10.16.6.82

User

Administrator@xch16dag.ahsay.com

Administrator@xch16dag.ahsay.com

backup@xch16dag.ahsay.com

user01@xch16dag.ahsay.com

user02@xch16dag.ahsay.com

user03@xch16dag.ahsay.com

Previous

Next

Cancel

Help

- **Restore to Alternate Host** - You can also choose to restore mailbox item(s) to another mailbox in another Exchange server of the same version. Select the **Alternate host** option. Enter the host, username and password of the alternate Exchange server. If you will access the internet through proxy, check the box beside it and set the configuration for the proxy server

and click Save. If you would like to modify the Verify checksum of in-file delta files setting, click **Show advanced option**.

## Choose Where The Mail Objects To Be Restor...

Restore mail objects to

- ☐ Original location  
☐ Alternate location  
☒ Alternate host

Host

10.16.6.81

Username

backup

Password

•••••

☐ Access the Internet through proxy

Test

Show advanced option

Previous

Next

Cancel

Help

### Proxy (HTTP)

IP address

Port

Login ID

Password

Test connection

Save

Cancel

Select the desired mailbox destination then press Next proceed.

# Alternate Location

Host

User

Administrator@xch16dag.ahsay.com ▼

Administrator@xch16dag.ahsay.com

backup@xch16dag.ahsay.com

user01@xch16dag.ahsay.com

user02@xch16dag.ahsay.com

user03@xch16dag.ahsay.com

Previous

Next

Cancel

Help

Please refer to the [Limitation](#) part to check for the limitation of the restore process.

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

# Temporary Directory

Temporary directory for storing restore files

4.2.3.7. The following screen with the text Restore Completed Successfully shows when the restoration is completed.

# Restore



## MS Backup 2016 Mail Level Backup (DAG)



AhsayCBS (Host: 10.90.10.12:443)

✓ Restore Completed Successfully

Estimated time left 0 sec

Restored 0 (0 file)

Elapsed time 11 sec

Transfer rate 0bit/s



Close

Help

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