

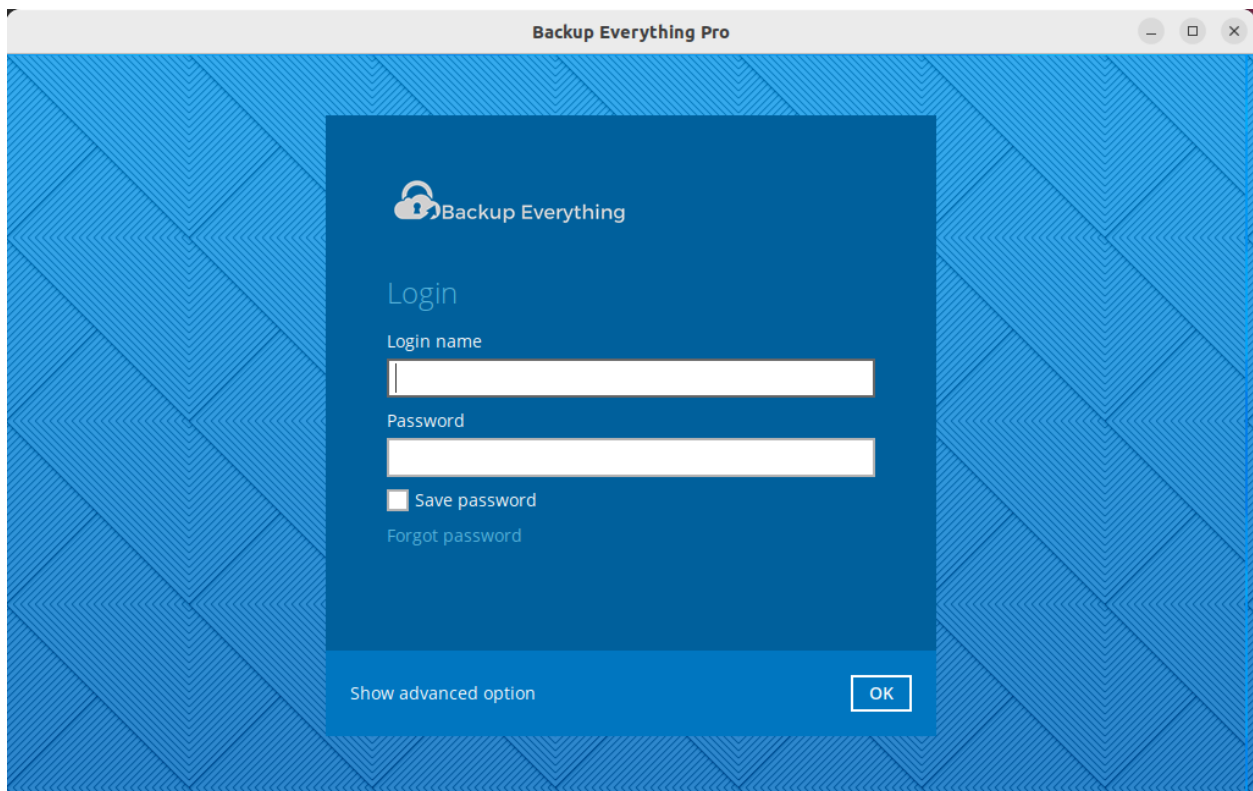
Microsoft Hyper-V Backup and Restore Guide

Backup Process

This guide provides step-by-step instructions to **back up and restore your Microsoft Hyper-V virtual machines** . Follow each section carefully to ensure your data is fully protected and recoverable.

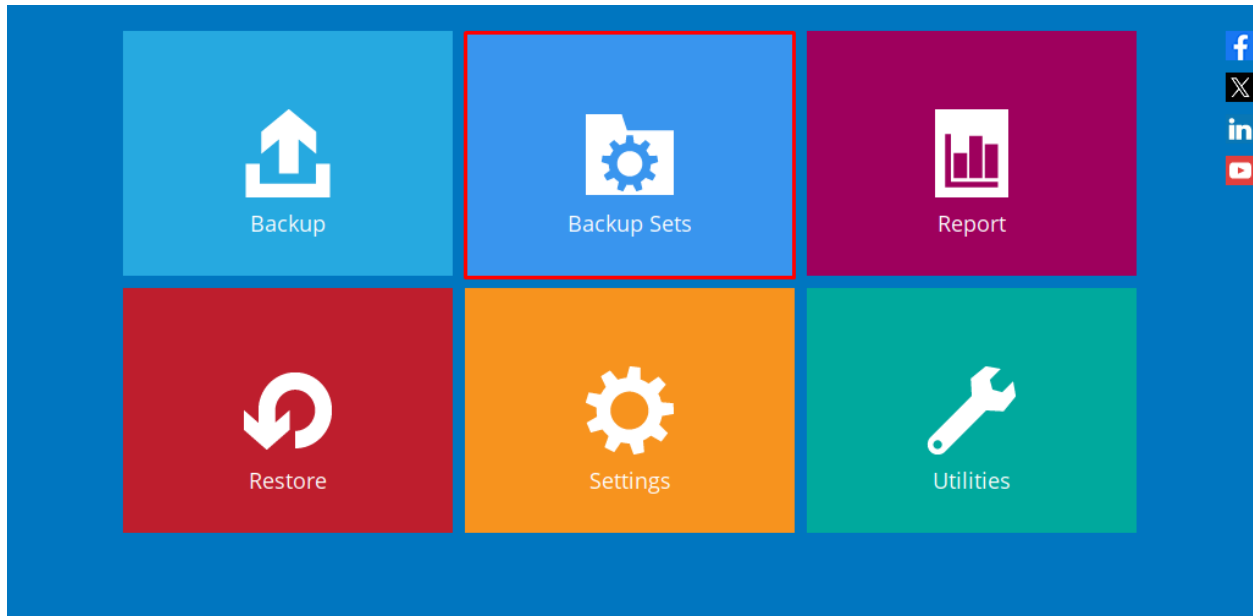
Step 1: Log In

1. Open the application.
2. Enter your **username** and **password** to log in.

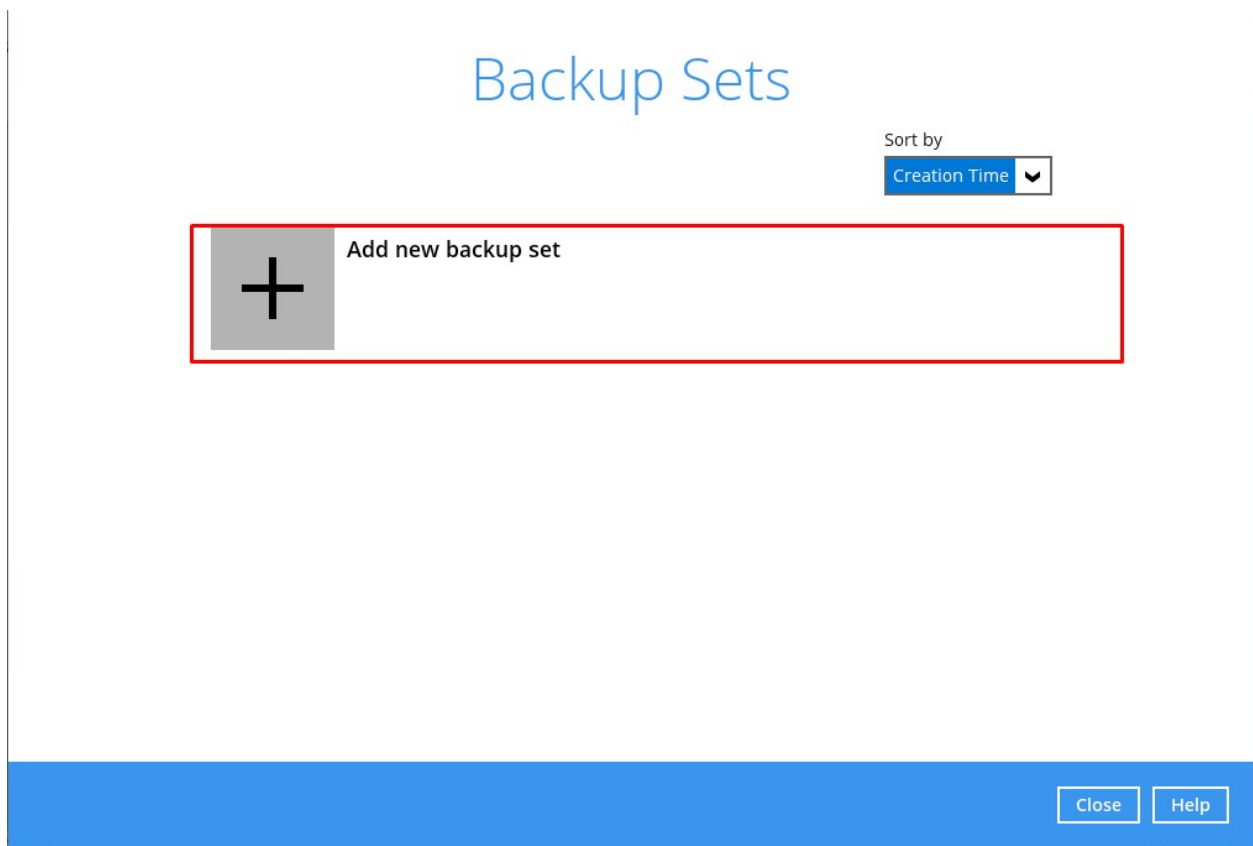


Step 2: Create a New Backup Set

1. Navigate to the "**Backup Sets**" menu.

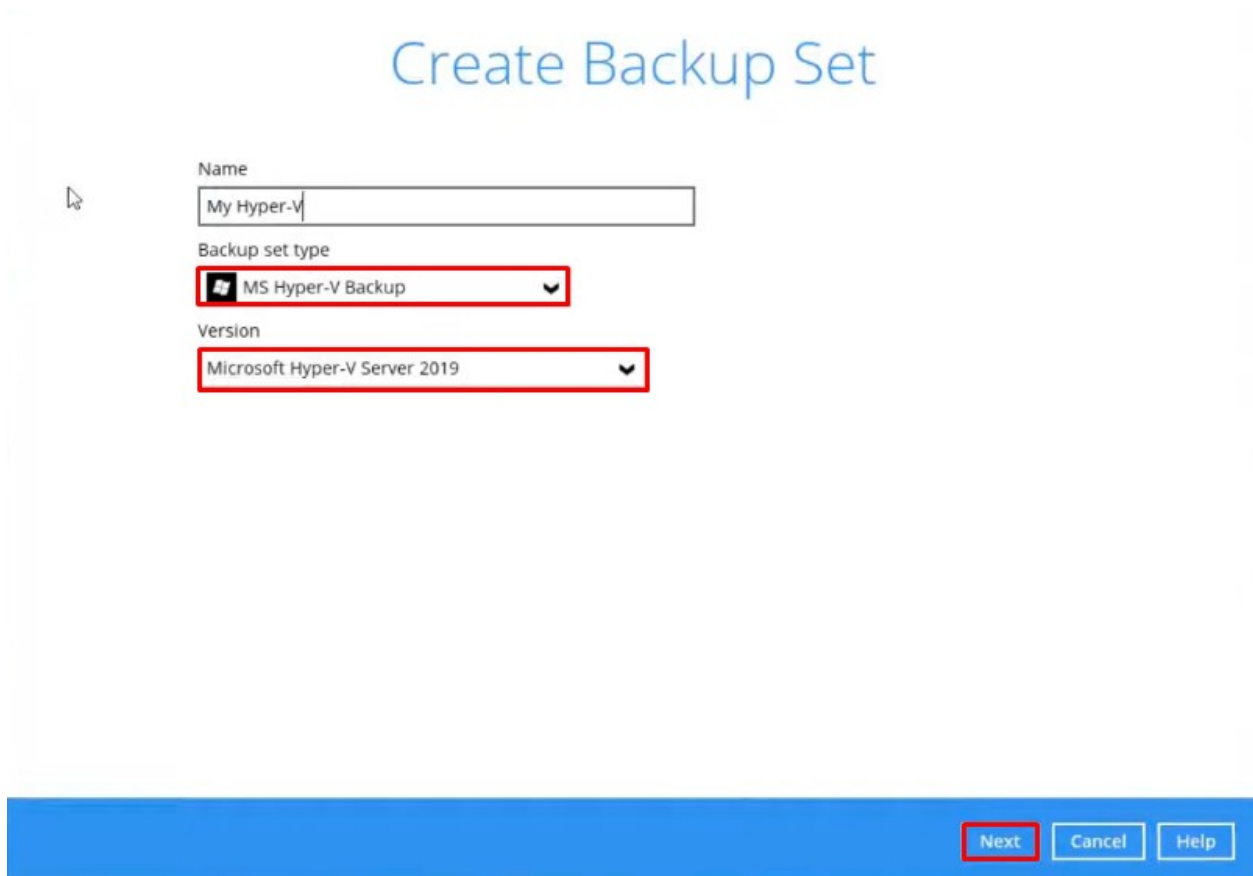


2. Click "Create New Backup Set" to begin configuration.



Step 3: Name & Select Backup Type

1. **Rename** the backup set for easy identification (e.g., *"HyperV-DailyBackup-Prod"*).
2. Select **"Microsoft Hyper-V Backup"** as the backup type.
3. Choose the **Hyper-V version** you are using (e.g., *Hyper-V 2016, 2019, 2022*).



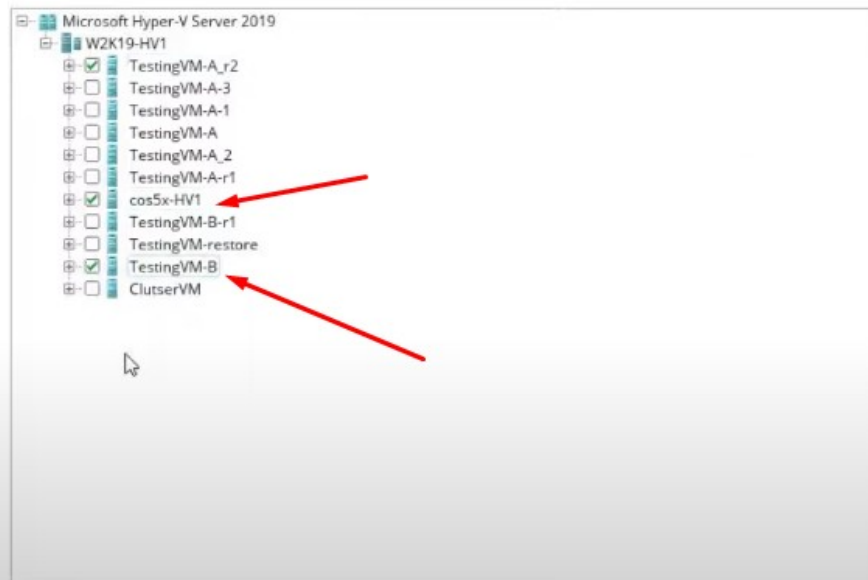
The screenshot shows the 'Create Backup Set' wizard. The title 'Create Backup Set' is at the top in blue. Below it, there are three input fields: 'Name' with the text 'My Hyper-V', 'Backup set type' with a dropdown menu showing 'MS Hyper-V Backup' (highlighted with a red box), and 'Version' with a dropdown menu showing 'Microsoft Hyper-V Server 2019' (also highlighted with a red box). At the bottom right, there are three buttons: 'Next' (highlighted with a red box), 'Cancel', and 'Help'.

Step 4: Select Backup Source

You can back up:

- **Entire Hyper-V Host (All VMs)** – Select the **top node** to back up everything.
- **Individual VMs** – Manually pick specific VMs for backup.

Backup Source



Previous

Next

Cancel

Help

Step 5: Set Backup Schedule

Configure when the backup should run:

Schedule

Run scheduled backup for this backup set

On



Existing schedules



Add new schedule

- **Daily / Weekly / Monthly** – Choose your preferred frequency.

New Backup Schedule

Name
Weekly-1

Type
Weekly

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

Start backup at
 23 : 11

Stop
 until full backup completed

☐ Run Retention Policy after backup

OK Cancel Help

- **Set Exact Time** – Define a time (e.g., 2:00 AM) to minimize disruption.

Click “OK” Button after modifying the schedule

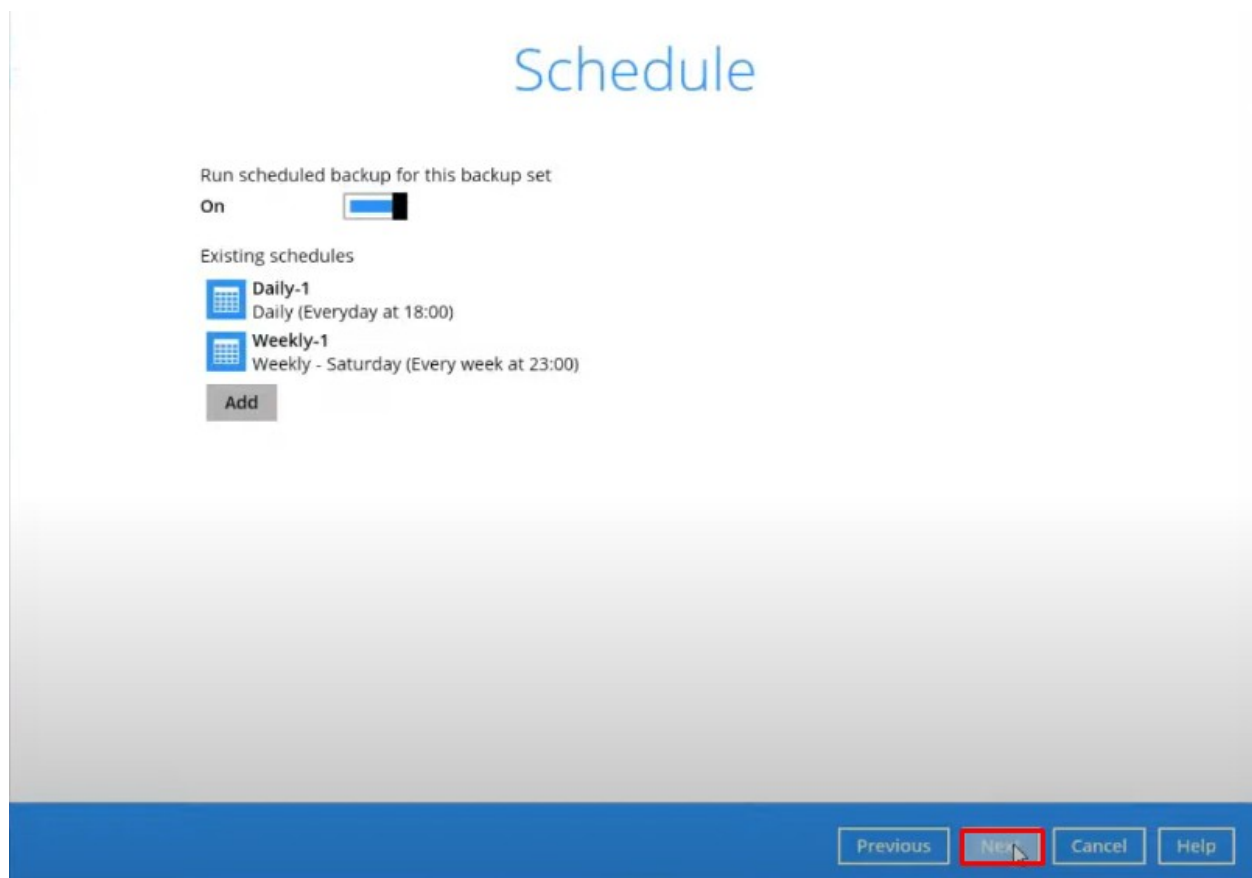
Type
Daily

Start backup at
 18 : 00

Stop
 until full backup completed

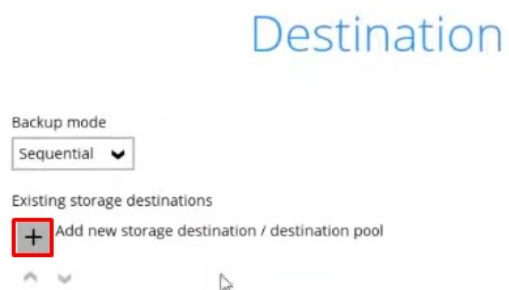
☐ Run Retention Policy after backup

OK Cancel Help



- Click **Next** To Proceed

Step 6: Choose Backup Destination



1. **Disable "RUN DIRECT"** (This option only supports local backups).

New Storage Destination / Destination Pool

Name
Local-1

Run Direct
☒ Support restoring a VM into your production environment by running it directly from the backup file
(No encryption and compression will be applied to backup data.)
Disable this

Destination storage
Local / Mapped Drive / Removable Drive ▼

Local path
 Change

Test

OK Cancel Help

2. Select a destination:

- **UK Storage (Cloud)** – For offsite backups.
- **Local Storage** – Provide a local path (e.g., *D:\HyperV_Backups*).

New Storage Destination / Destination Pool

Name

Local-1

Run Direct

☐ Support restoring a VM into your production environment by running it directly from the backup file
(No encryption and compression will be applied to backup data.)

Destination storage

Local / Mapped Drive / Removable Drive

UK Storage (Immutable: No)

Local / Mapped Drive / Removable Drive

change

☐ This share requires access credentials

Test

OK

Cancel

Help

Destination

Backup mode

Sequential

Existing storage destinations



UK Storage
Immutable: No



Local-1
C:\Users\cypter\Documents\UPDF

Add



Previous

Next

Cancel

Help

Step 7: Granular Restore Option

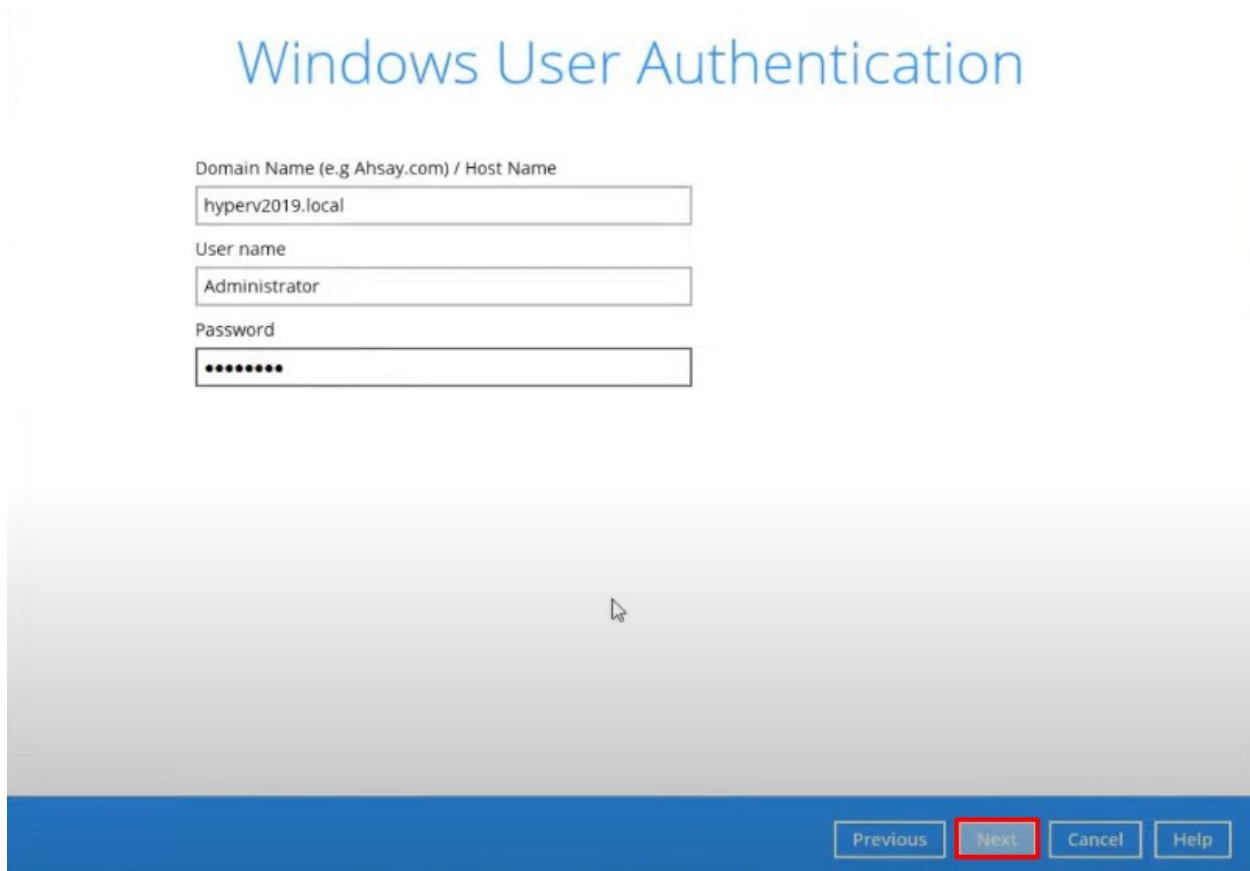
- **Disable** – skip this feature.



Step 8: Provide Windows Authentication

Enter credentials for Hyper-V host access:

- **Host/Domain Name** (e.g., *HYPERV-SERVER01* or *yourdomain.local*).
- **Username** (e.g., [admin@domain.com](#) or *HYPERV-SERVER01\Admin*).
- **Password** – Ensure proper permissions for backup access.



The screenshot shows the 'Windows User Authentication' dialog box. It has a title bar and a main area with three input fields. The first field is labeled 'Domain Name (e.g. Ahsay.com) / Host Name' and contains the text 'hyperv2019.local'. The second field is labeled 'User name' and contains the text 'Administrator'. The third field is labeled 'Password' and contains a series of dots. At the bottom of the dialog, there is a blue bar with four buttons: 'Previous', 'Next', 'Cancel', and 'Help'. The 'Next' button is highlighted with a red border.

Step 9: Verify Temporary Directory

- Ensure the **temp directory** has enough free space
- Adjust the temp path if needed (e.g., *C:\Temp\Directory*).

Step 10: Complete Backup Set Creation

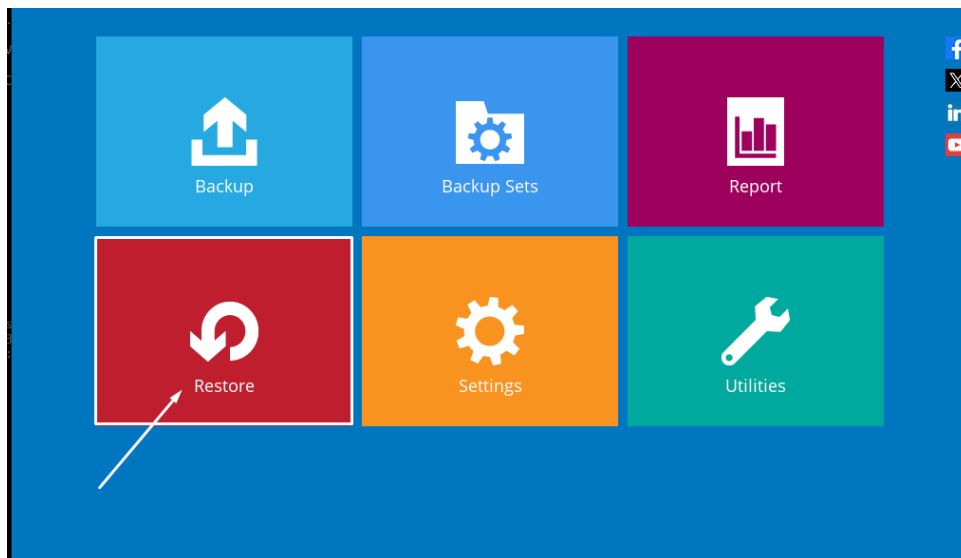
- Click "**Save**" to finalize the backup set.
- **Optional:** Click "**Backup Now**" to run an immediate backup.



- Otherwise, backups will run at the scheduled time.

Restore Process

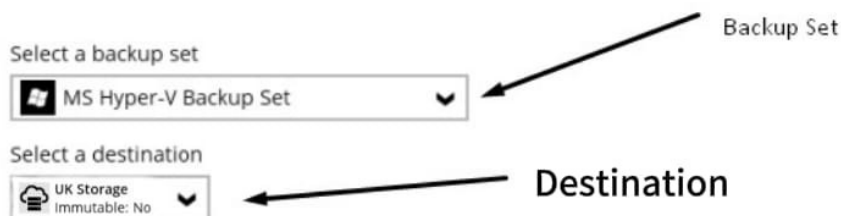
Step 1: Click the "Restore" icon in the main interface.



Step 2: Select the Backup Set

1. Choose the **backup set** containing the Hyper-V VM(s) you want to restore.
2. Select the **storage destination** (UK Storage, local drive, mapped drive, or removable drive) where the backup is stored.

Select From Where To Restore



- **Option 1: Restore Virtual Machine** – For full VM recovery.
- **Option 2: Restore Individual Files(Granular Restore)** – For granular file-level recovery (if enabled).

- Restore mode
- ☒ Restore virtual machines
 - ☐ Restore individual files inside virtual machine (Granular Restore)

You may change the path under “**Temporary directory for storing restore files**” by clicking the Browse button. This will allow you to select the directory that will be used to store the temporary files.

Temporary directory for storing restore files	
<input type="text" value="D:\temp"/>	<input type="button" value="Browse"/>

Step 3: Select Backup Job & Files

1. Pick the **specific backup job** containing your VM.
2. Select the **files, folders, or VM(s)** you want to restore.

Folders		Name	Size	Date modified
Local-1		win2k12R2-std		
win2k12R2-std		WIN		

To do an Individual Virtual Disk Restore, tick the **Restore raw file** checkbox.

☒ Restore raw file

Click "Next" to proceed.

Step 4: Choose Restore Location

- **Original Location** – Restores the VM to its original path on the Hyper-V host.

Choose Where The Virtual Machines To Be Re...

Restore virtual machines to

☒ Original location

☐ Alternate location

☐ Run Direct

☐ Auto migrate after Run Direct is running

Show advanced option

- **Alternate Location** – Restores to a different directory (useful for testing or migration)

Choose Where The Virtual Machines To Be Re...

Restore virtual machines to

☐ Original location

☒ Alternate location

☐ Run Direct

☐ Auto migrate after Run Direct is running

Show advanced option

If Selecting Alternate Location:

You will need to specify:

1. **New Virtual Machine Name**
2. **VM Configuration File Path .**
3. **Virtual Hard Disk (VHD) Location** (e.g., same as above or a different path).

Alternate location

Virtual Machine Name

Virtual Machines Directory Location

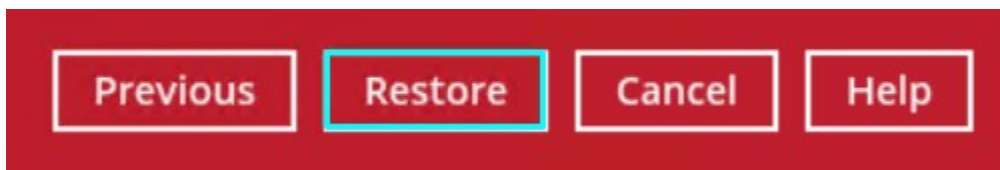
Virtual Hard Disk Location

define virtual machine name

Browse

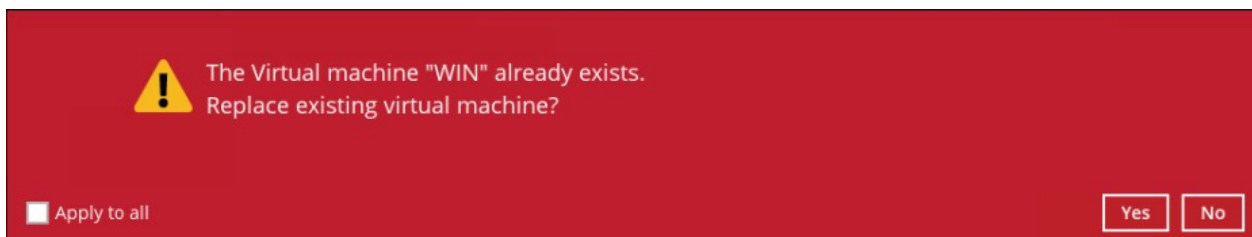
Browse

- Click "**Restore**" to begin the process.



Step 5: Handle Existing VM Conflicts

- If the VM already exists, **It will ask** whether to:
 - Yes** (deletes the existing VM before restoring).
 - No**(cancels restore for this VM).



Step 6: Monitor & Complete Restore

- Wait for the process to finish.
- You will see a "**Restore Completed**" confirmation.



- Go to the Hyper-V server and open the Hyper-V Manager to verify the guest VM has been restored and is powered off.

