

Ahsay Online Backup Manager v8

Quick Start Guide for Synology NAS

Ahsay Systems Corporation Limited

23 May 2019

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Revision History

| Date | Descriptions | Type of modification |
|-----------------|---|----------------------|
| 21 January 2019 | First Draft | New |
| 11 March 2019 | Updated Ch. 2.6 v8 Oracle JDK Requirement, Java memory requirement | Modification |
| 15 May 2019 | Added Ch. 6 AhsayOBM Overview; Profile, Online Help, Language, Information, Backup, Backup Sets, Report, Restore, Settings, Utilities; Added Ch. 4 AhsayOBM Scheduler Service Check | New |
| 23 May 2019 | Added Overview in Ch. 1 | New |

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1 Overview

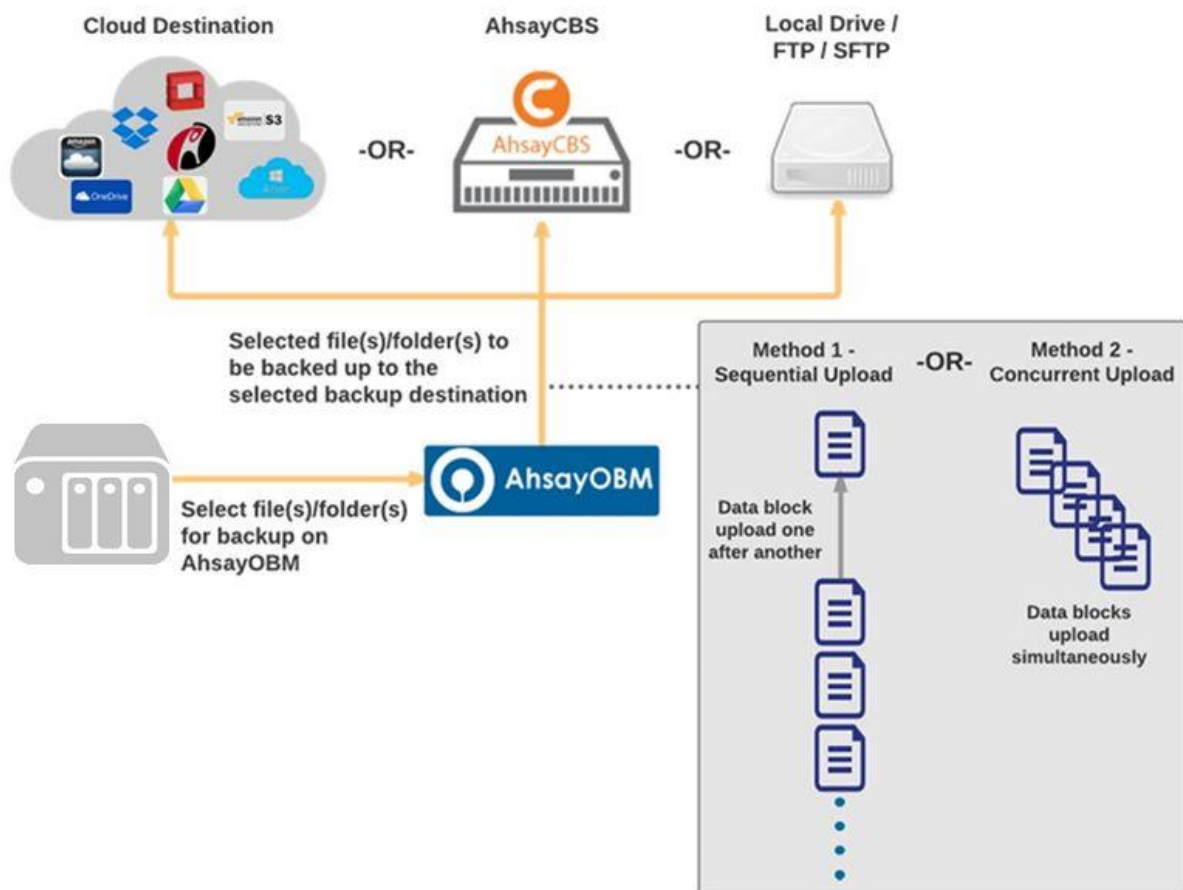
What is this software?

Ahsay brings you specialized client backup software, namely AhsayOBM, to provide a comprehensive backup solution for protecting file(s) / folder(s) on your machine, with a wide variety of backup destinations (major cloud storage service providers, FTP/SFTP, local drive, etc.) of your choice.

System Architecture

Below is the system architecture diagram illustrating the major elements involved in the backup process among the backup machine, 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 as a client backup software.



2 Requirements for AhsayOBM on Synology NAS

Hardware Requirements

Refer to the following article for the list of Synology NAS models, DiskStation Manager (DSM) version and hardware requirement:

[FAQ: Ahsay Hardware Compatibility List \(HRL\) for AhsayOBM on Synology NAS](#)

Software Requirements

Refer to the following article for the Ahsay Software Compatibility List:

[FAQ: Ahsay Software Compatibility List \(SCL\) for version 8.1 or above](#)

AhsayOBM Installation

The latest version of AhsayOBM must be installed on the Synology NAS.

NAS-Synology Add-on Module

The NAS-Synology add-on module is enabled in your AhsayOBM user account to cover the backup of your Synology NAS devices. The NAS-Synology add-on module supports the backup of an unlimited number of devices per AhsayOBM user account.

Please contact your backup service provider for more details.

The screenshot shows the 'Backup Client Settings' tab for a user profile. The 'Backup Client' section has 'AhsayOBM User' selected. Under 'Add-on Modules', the 'NAS - Synology' module is checked and highlighted with a red box. Other modules are listed with checkboxes, some with additional configuration options like dropdown menus or input fields.

| Module | Enabled |
|-------------------------------|-------------------------------------|
| Microsoft Exchange Server | <input type="checkbox"/> |
| MySQL Database Server | <input type="checkbox"/> |
| Lotus Domino | <input type="checkbox"/> |
| Windows System Backup | <input type="checkbox"/> |
| VMware | <input type="checkbox"/> |
| Microsoft Exchange Mailbox | <input type="checkbox"/> |
| Continuous Data Protection | <input type="checkbox"/> |
| Mobile | <input type="checkbox"/> |
| Volume Shadow Copy | <input type="checkbox"/> |
| OpenDirect / Granular Restore | <input type="checkbox"/> |
| Microsoft SQL Server | <input type="checkbox"/> |
| Oracle Database Server | <input type="checkbox"/> |
| Lotus Notes | <input type="checkbox"/> |
| Windows System State Backup | <input type="checkbox"/> |
| Hyper-V | <input type="checkbox"/> |
| ShadowProtect System Backup | <input type="checkbox"/> |
| NAS - Synology | <input checked="" type="checkbox"/> |
| NAS - QNAP | <input checked="" type="checkbox"/> |
| In-File Delta | <input type="checkbox"/> |
| Office 365 Backup | <input checked="" type="checkbox"/> |

Java Requirement

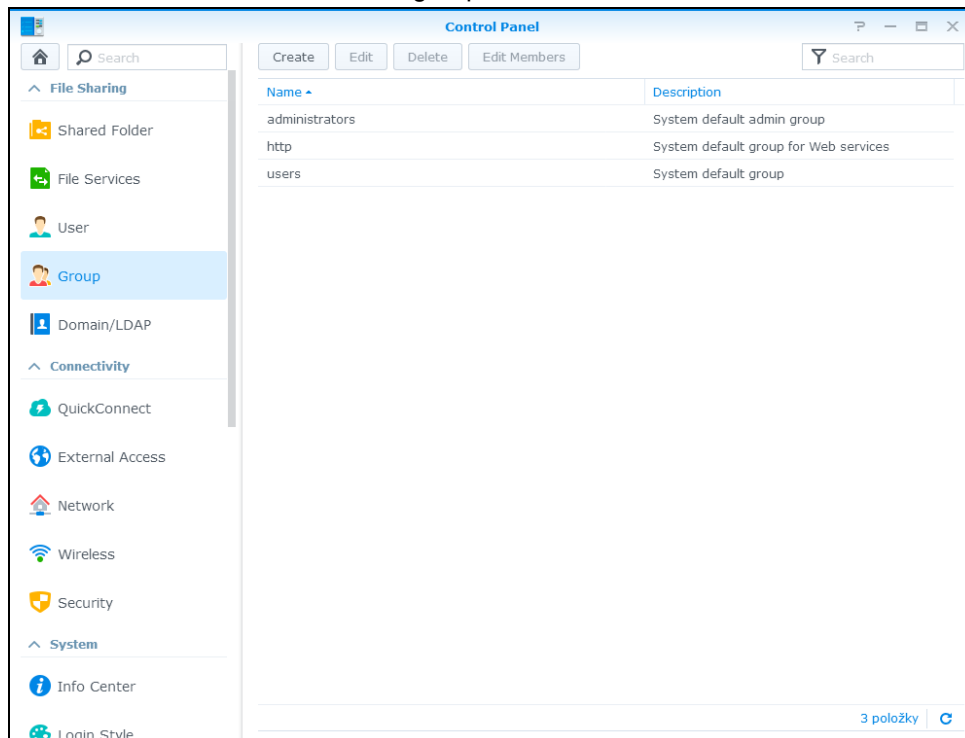
In v8 the Oracle Java JDK files are already included and deployed as part of the AhsayOBM installation

Memory Requirement

The default Java heap size of AhsayOBM installation on Synology NAS is 256 MB. It is recommended that 1 GB RAM or more is installed for stability and better backup / restore performance.

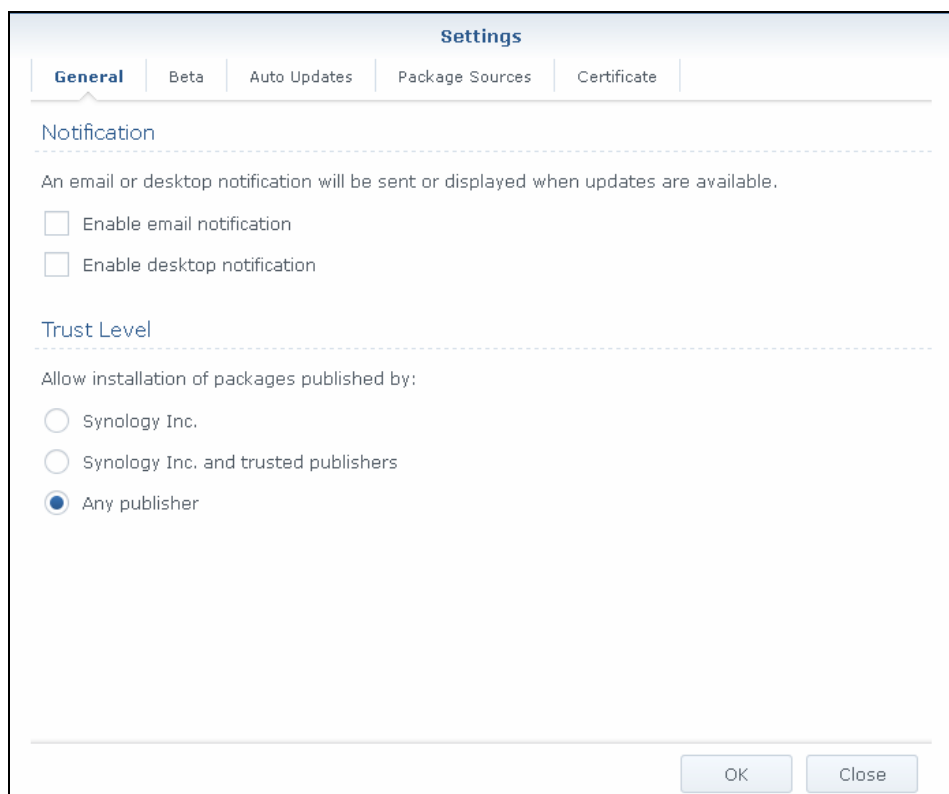
Synology NAS User Account Permission

The Synology NAS user account used for the AhsayOBM installation and application must be a member of “**administrators**” user group.



Synology NAS Trust Level

In the **General** tab, modify the Trust Level setting by choosing **Any publisher**.



3 Get started with AhsayOBM

This quick start guide will walk you through the following 5 major parts to get you started with using AhsayOBM.

Download and Install

Download and install AhsayOBM on your Synology NAS

Launch the App

Launch and log in to AhsayOBM

Create a Backup Set

Create a backup set according to your preferences

Run Backup Jobs

Run a backup job to back up your data

Restore Data

Restore your backed up data

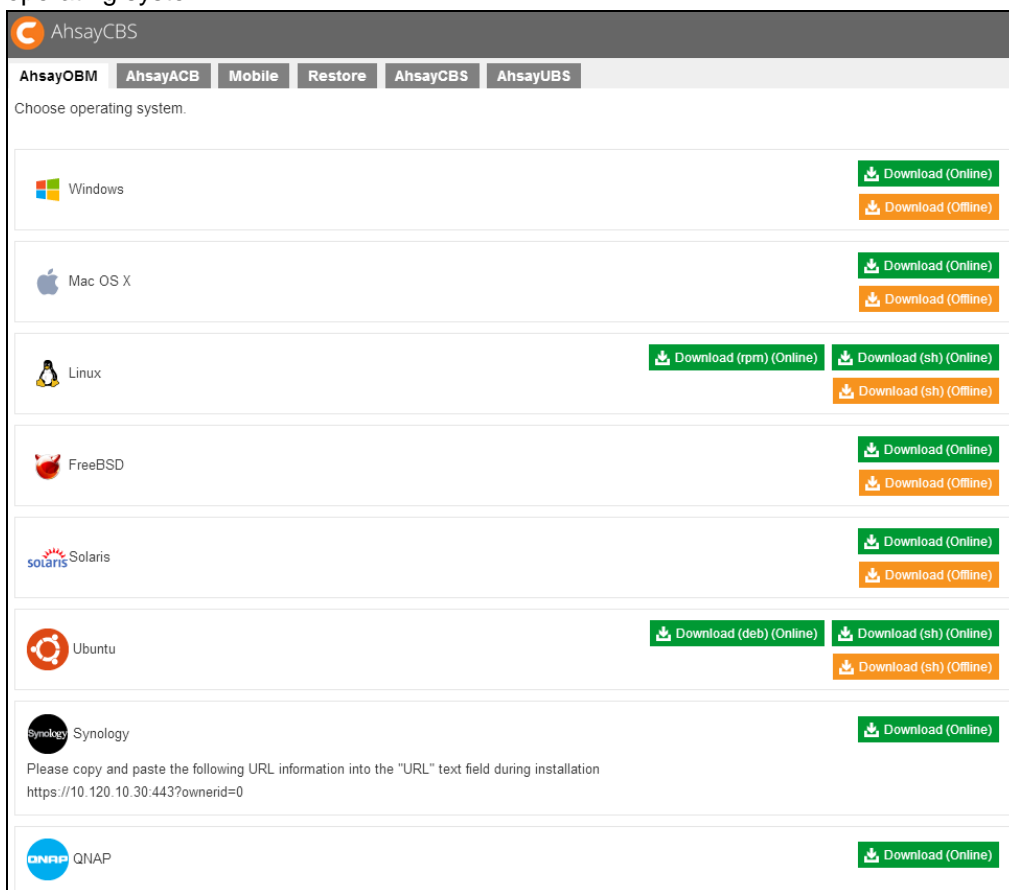
4 Download and Install AhsayOBM

Download AhsayOBM

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



2. In the **AhsayOBM** tab of the download page, you can choose the AhsayOBM installer by operating system.



3. In the Synology section, click the **Download** icon to download the AhsayOBM installation package.



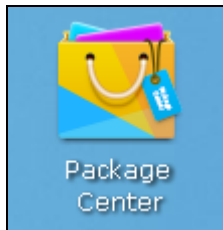
Install AhsayOBM

1. Sign into DiskStation Manager (DSM) with the admin account. In a web browser, enter the Synology NAS device IP address, followed by :5000

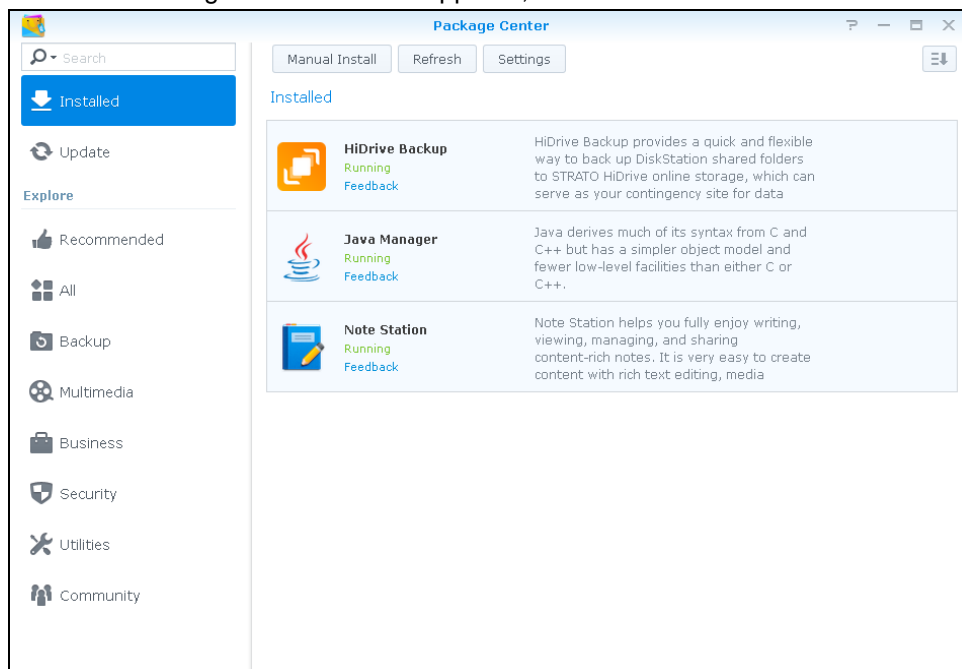
https://nas_hostname:5000

Note: Refer to the following Synology article for information on how to sign into DSM:
https://www.synology.com/en-us/knowledgebase/DSM/help/DSM/MainMenu/get_started

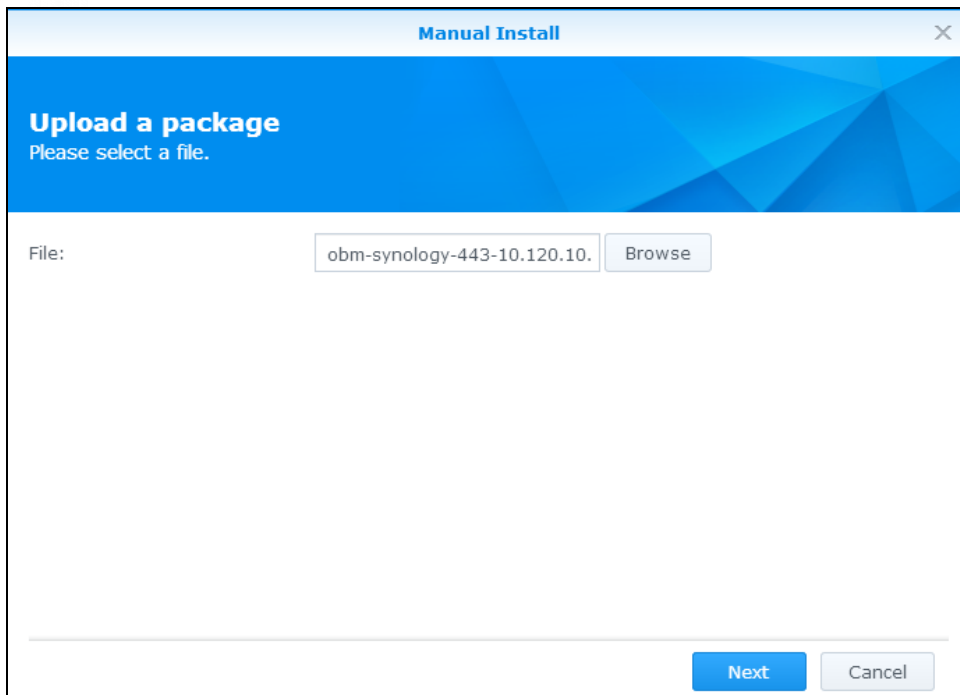
2. To install AhsayOBM on Synology NAS, click the Package Center icon from the desktop.



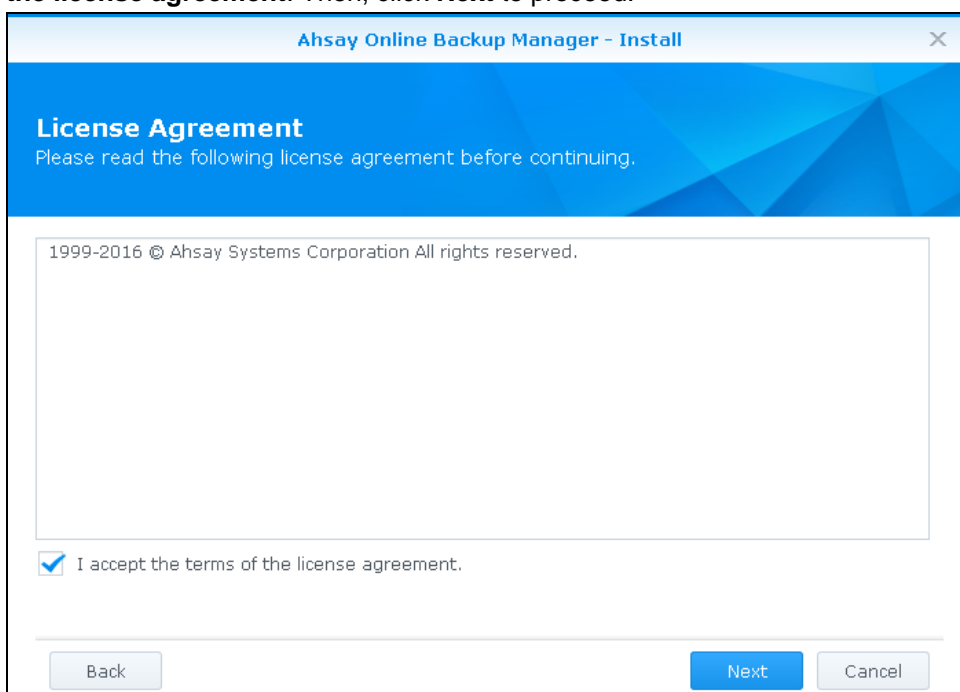
3. When the Package Center window appears, select **Manual Install**.



4. When the Manual Install window appears, click **Browse** to select the AhsayOBM package file which you have downloaded (e.g. obm-synology-443-backup service provider IP address-https-00.spk). Then, click **Next** to proceed.



5. After reading the License Agreement carefully, tick the checkbox next to **I accept the terms of the license agreement**. Then, click **Next** to proceed.



6. Copy and paste the URL information for installing on Synology shown in the download page. Then, click **Next** to proceed.



Ahsay Online Backup Manager - Install

Please provide the URL of the CBS

Specify the URL

URL:

Back Next Cancel

7. Review the information on screen. Then, click **Apply** to start the installation of AhsayOBM.

Ahsay Online Backup Manager - Update

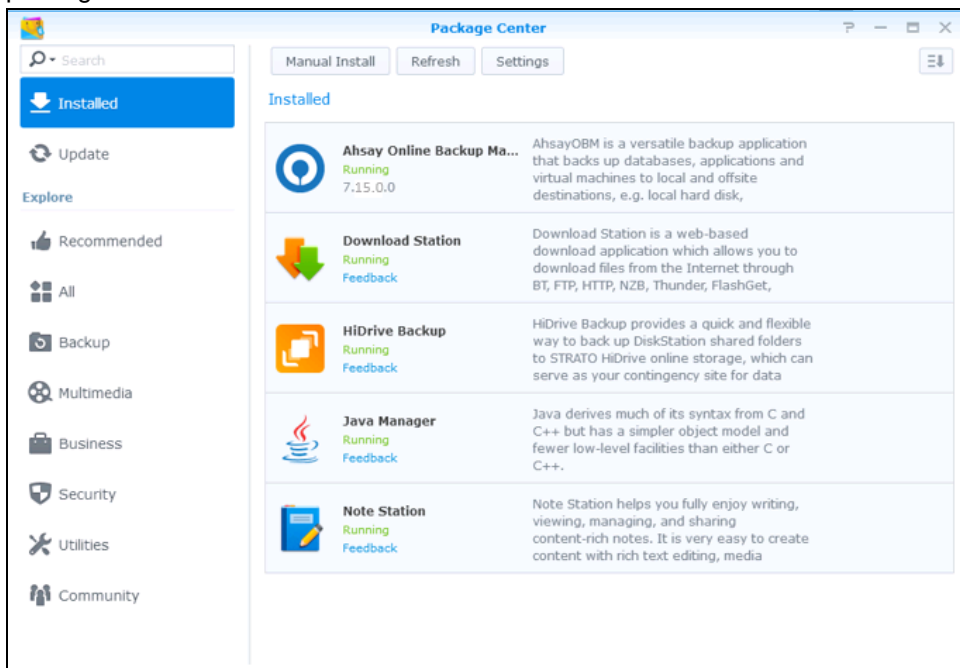
Confirm settings

The wizard will apply the following settings and start updating the package.

| Item | Value |
|--------------|---|
| Package name | Ahsay Online Backup Manager |
| Version | 8.1.0.0 |
| Developer | Ahsay Systems Corporation |
| Description | AhsayOBM is a versatile backup application that backs up databases, applications and virtual machines to local and offsite destinations, e.g. local hard disk, on-premises backup appliance, and backup server located in datacenter. |

Back Apply Cancel

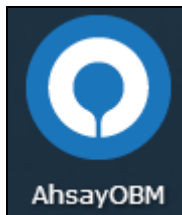
8. Upon successful installation, Ahsay Online Backup Manager will be listed in the Installed packages.



9. You can click the Main Menu icon on the top left corner of your desktop.



10. You can click the AhsayOBM icon to launch the application.



11. Revert the Trust Level to the previous setting in Package Center afterward.
12. Refer to [Pre-install Requirement](#) for instructions.

AhsayOBM Scheduler Service Check

This option is used to kick automated or scheduled backup jobs. To start, login to Synology NAS device using ssh client, i.e. putty.

Go to the `/volume1/@appstore/AhsayOBM/obm/bin` directory.

To **check** if the AhsayOBM scheduler service is running, use the **ps** command.

Scheduler service is running, highlighted in **red**.

```
login as: admin
admin@10.3.0.116's password:
admin@dev-ds215j:~$ cd /volume1/@appstore/AhsayOBM/obm/bin
admin@dev-ds215j:/volume1/@appstore/AhsayOBM/obm/bin$ ps -ef|grep java
root 15083 1 0 May14 ? 00:03:05
/volume1/@appstore/AhsayOBM/obm/jvm/bin/java -Xrs -Xms64m -Xmx373m -
Dsun.nio.PageAlignDirectMemory=true -Djava.library.path=. -cp ../cb.jar
WuiService /volume1/@appstore/AhsayOBM/obm/volume1/@appstore/AhsayOBM/.obm
--port=32168
admin 16343 15411 0 08:56 pts/3 00:00:00 grep --color=auto java
admin 20925 1 1 May14 ? 00:11:46
/volume1/@appstore/AhsayOBM/obm/jvm/bin/java -Xms64m -Xmx256m -
Dsun.nio.PageAlignDirectMemory=true -Djava.library.path=. -cp ../cbs.jar
cbs /volume1/@appstore/AhsayOBM/obm
```

To manually **stop** the scheduler service, use the **touch /volume1/@appstore/AhsayOBM/obm/ipc/Scheduler/stop** script.

Use the **ps** command again.

```
admin@dev-ds215j:/volume1/@appstore/AhsayOBM/obm/bin$ touch
/volume1/@appstore/AhsayOBM/obm/ipc/Scheduler/stop
admin@dev-ds215j:/volume1/@appstore/AhsayOBM/obm/bin$ ps -ef|grep java
root 15083 1 0 May14 ? 00:03:05
/volume1/@appstore/AhsayOBM/obm/jvm/bin/java -Xrs -Xms64m -Xmx373m -
Dsun.nio.PageAlignDirectMemory=true -Djava.library.path=. -cp ../cb.jar
WuiService /volume1/@appstore/AhsayOBM/obm
/volume1/@appstore/AhsayOBM/.obm --port=32168
admin 16479 15411 0 08:58 pts/3 00:00:00 grep --color=auto java
```

To manually **start** the scheduler service, use **/volume1/@appstore/AhsayOBM/bin/Scheduler.sh** script and use the **ps** command.

Scheduler service is running, highlighted in **red**.

```
admin@dev-ds215j:/volume1/@appstore/AhsayOBM/obm/bin$  
/volume1/@appstore/AhsayOBM/obm/bin/Scheduler.sh  
admin@dev-ds215j:/volume1/@appstore/AhsayOBM/obm/bin$ ps -ef|grep java  
root 15083 1 0 May14 ? 00:03:05  
/volume1/@appstore/AhsayOBM/obm/jvm/bin/java -Xrs -Xms64m -Xmx373m -  
Dsun.nio.PageAlignDirectMemory=true -Djava.library.path=. -cp ../cb.jar  
WuiService /volume1/@appstore/AhsayOBM/obm  
/volume1/@appstore/AhsayOBM/.obm --port=32168  
admin 16583 1 8 08:58 pts/3 00:00:16  
/volume1/@appstore/AhsayOBM/obm/jvm/bin/java -Xms64m -Xmx256m -  
Dsun.nio.PageAlignDirectMemory=true -Djava.library.path=. -cp ../cbs.jar  
cbs /volume1/@appstore/AhsayOBM/obm  
admin 16962 15411 0 09:02 pts/3 00:00:00 grep --color=auto java
```

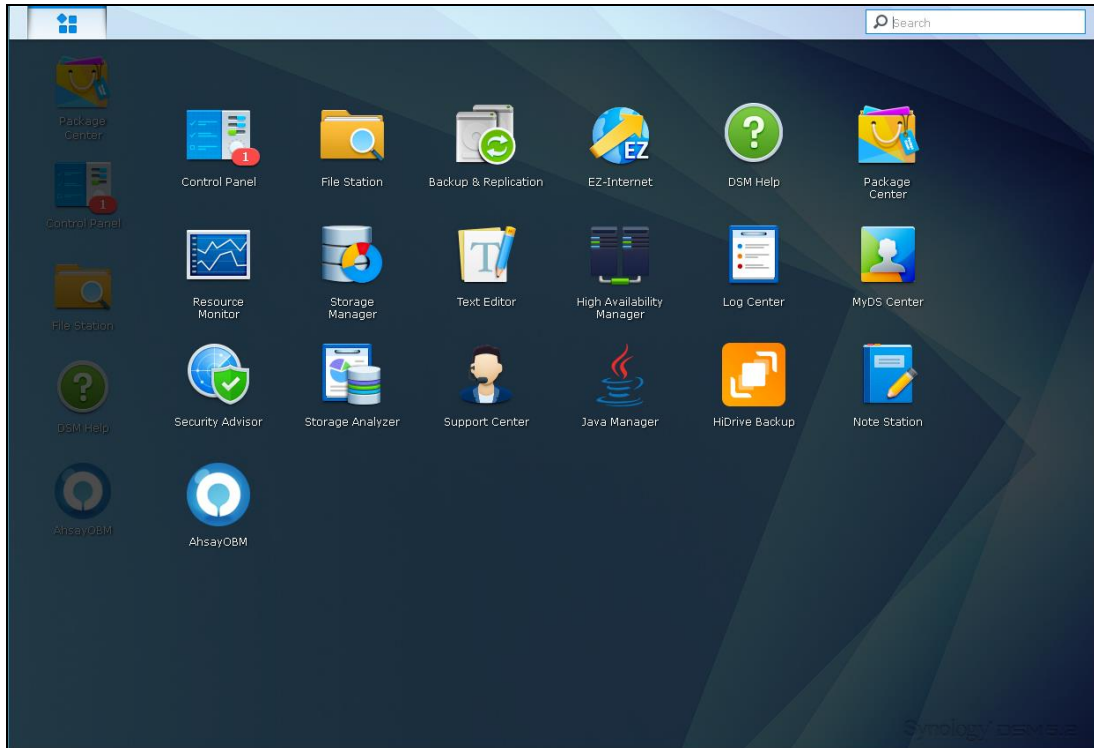

5 Start AhsayOBM

Add an AhsayOBM Shortcut Icon to the Desktop

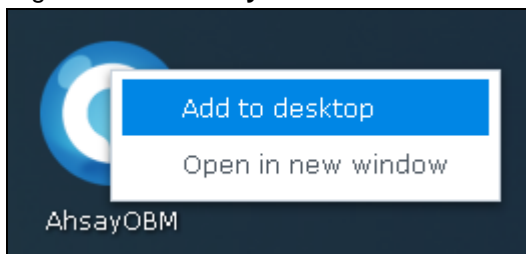
1. In the DiskStation Manager (DSM) console, click the **Main Menu** icon on the top left corner of the desktop to open it.



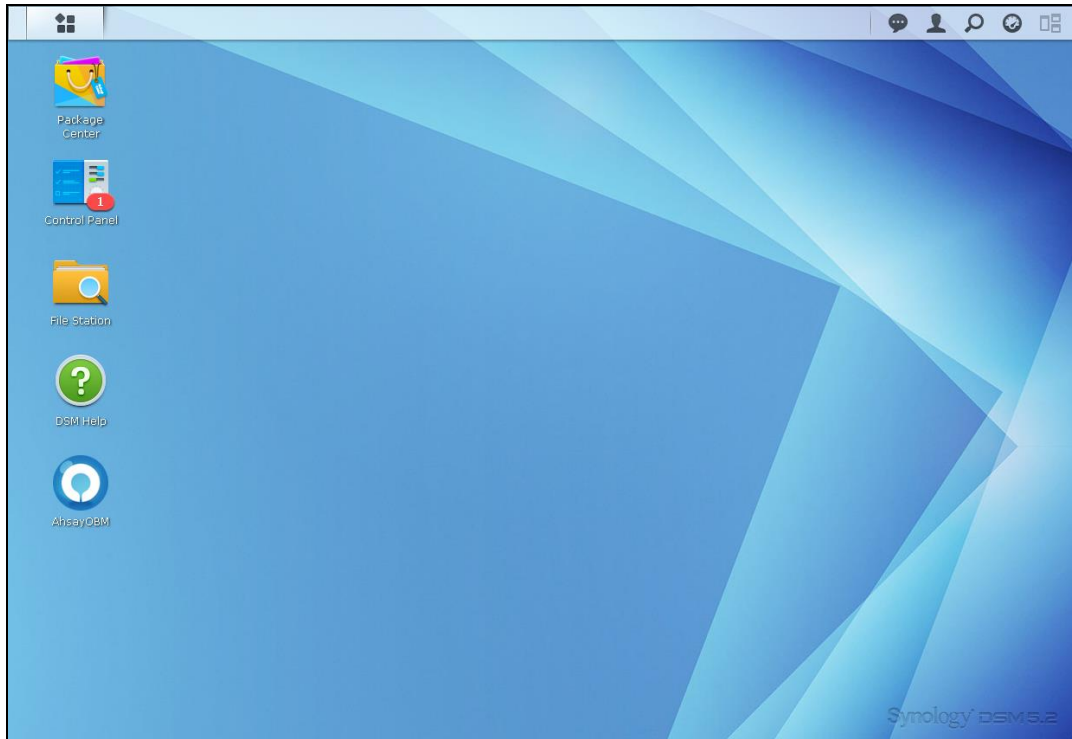
2. All application icons will be shown. Look for the **AhsayOBM** icon.



3. Right-click the **AhsayOBM** icon and select **Add to desktop**.

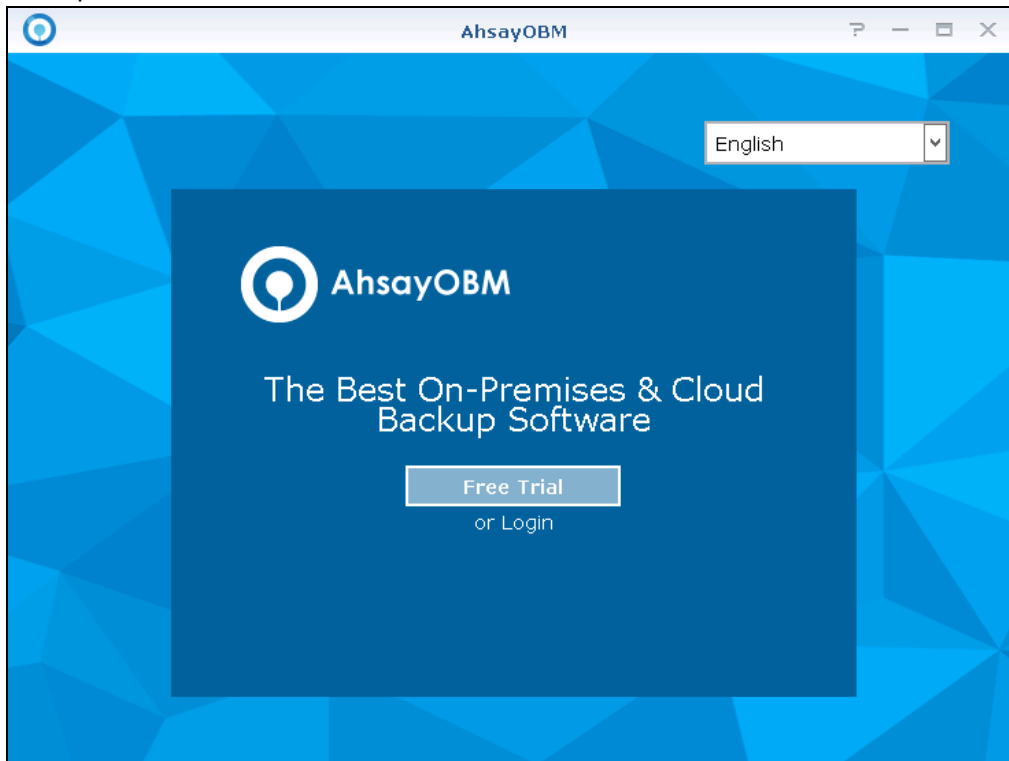


4. The AhsayOBM shortcut icon will be added to the desktop.



Login to AhsayOBM

1. Double-click the AhsayOBM icon on the desktop to launch the application.
2. The Free Trial Registration menu may be displayed when you login for the first time. Click **Login** if you already have an AhsayOBM account, or click **Free Trial** to register for a trial backup account.

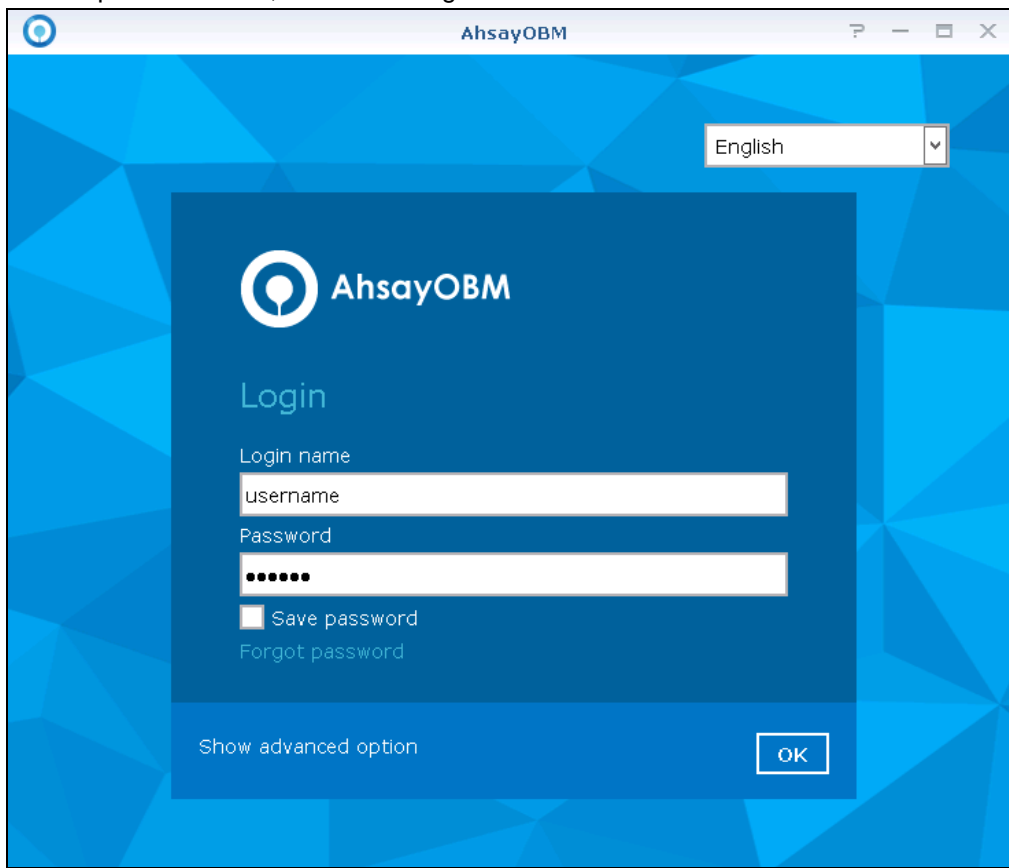


Note: The free trial registration menu will be displayed if your service provider has enabled free trial registration on the backup server.

3. In case you want to enter the backup server setting provided by your backup service provider, click **Show advanced option**.

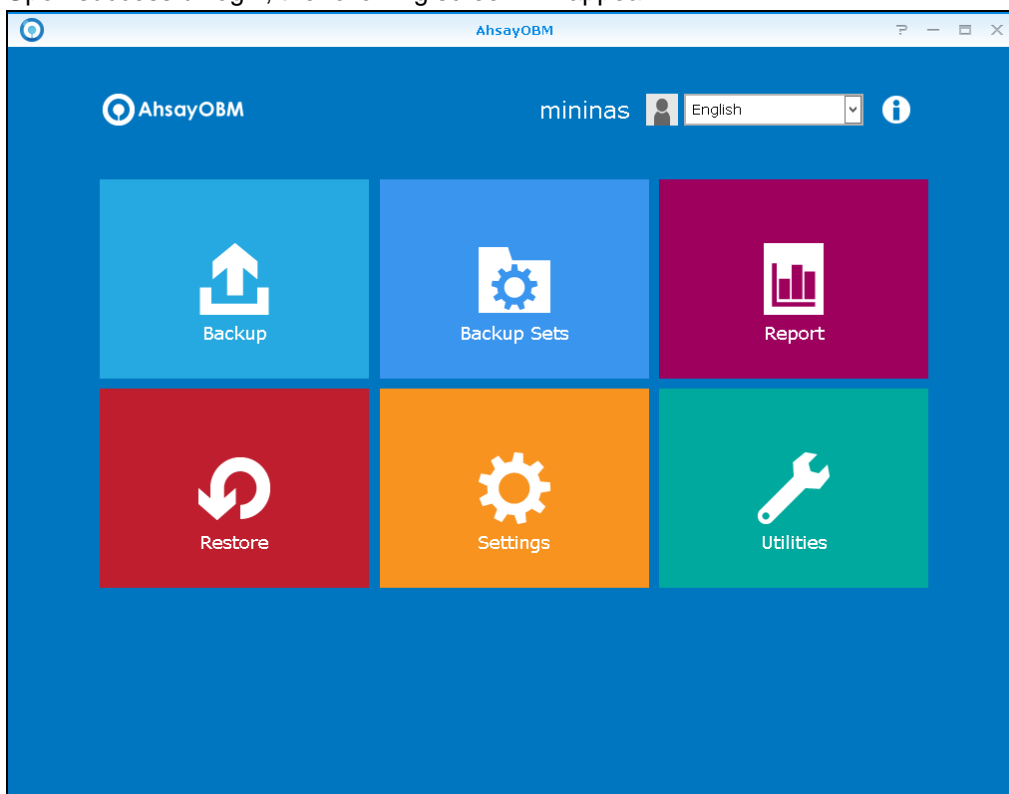
A screenshot of the 'Backup Server' configuration window. It has a title 'Backup Server' in blue. Below the title, there is a dropdown menu set to 'https' and a text input field containing '10.3.1.8:443'. Below this, there is a section titled 'Proxy (HTTP)' in blue. Under this section, it says 'Use proxy to access the Internet' followed by a toggle switch. The toggle switch is currently in the 'Off' position, indicated by a black slider.

4. Enter the Login Name and Password of your AhsayOBM account provided by your backup service provider. Then, click **OK** to login.

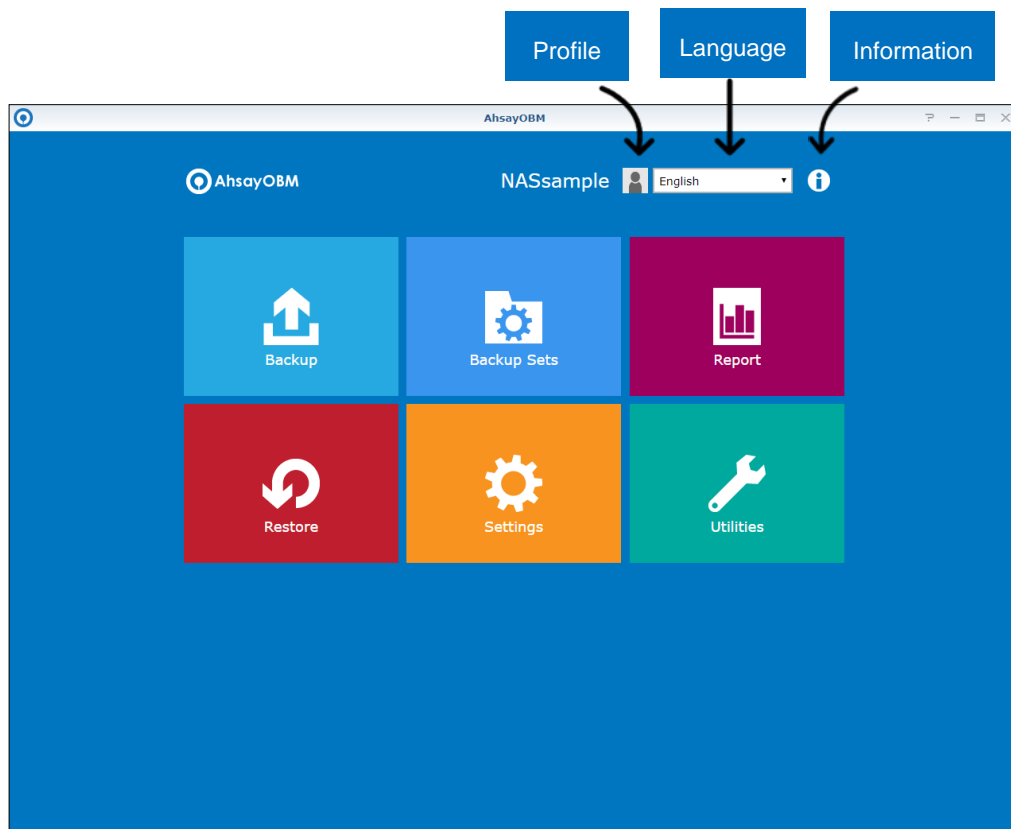


The image shows the AhsayOBM login window. The window has a title bar with the AhsayOBM logo and standard window controls. The background is a blue geometric pattern. In the top right corner, there is a language dropdown menu set to 'English'. The main content area is a dark blue rectangle with the AhsayOBM logo and the word 'Login'. Below the logo, there are two input fields: 'Login name' with the text 'username' and 'Password' with masked characters. Below the password field, there is a checkbox for 'Save password' and a link for 'Forgot password'. At the bottom of the login area, there is a link for 'Show advanced option' and an 'OK' button.

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



6 AhsayOBM Overview

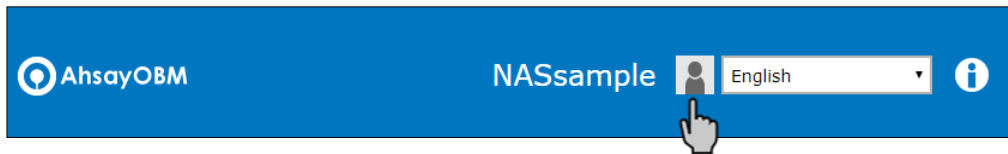


AhsayOBM main interface has nine (9) icons that can be accessed by the user, namely:

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

Profile

The **profile** icon shows the profile settings that can be modified by the user.



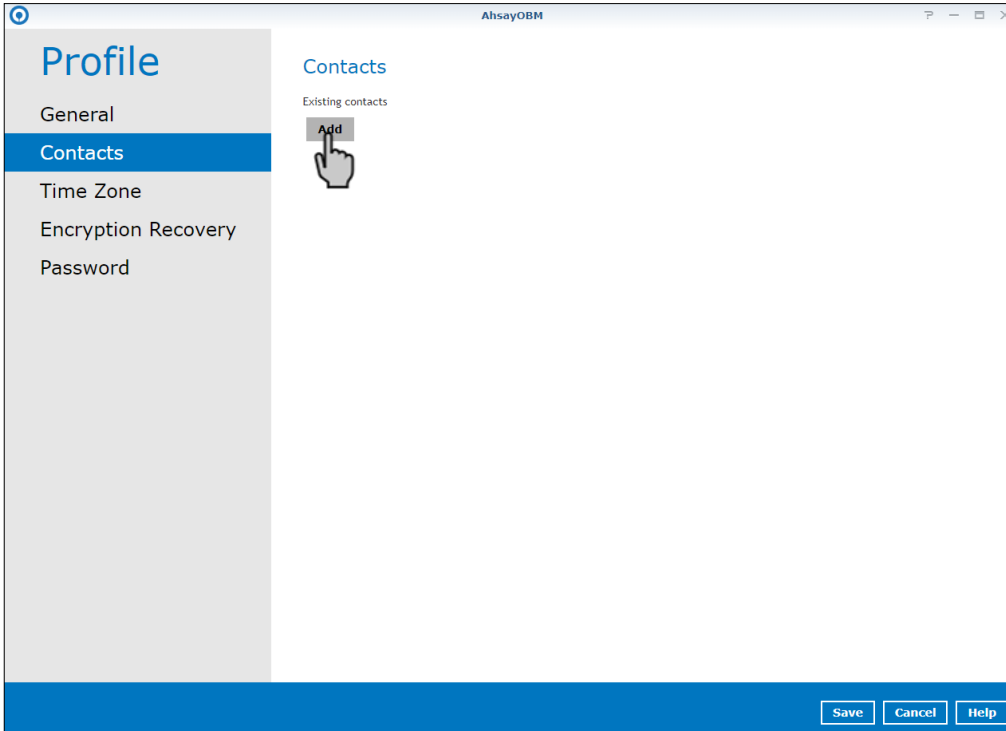
Profile has five (5) features:

- **General**
- **Contacts**
- **Time Zone**
- **Encryption Recovery**
- **Password**

The **General** tab displays the **user information**.

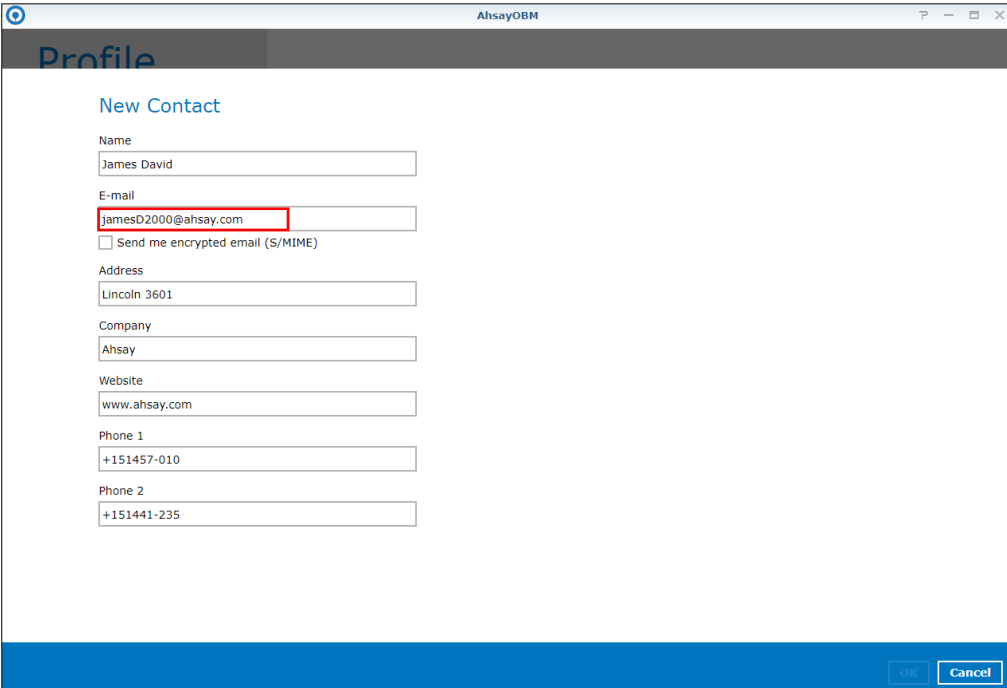
- The **login name** is the name of your backup account.
- The **display name** is the display name of your backup account as you log on to the AhsayCBS management console.

You can add or modify the email address of the **contact person** here. Having this filled in will help us to know where to send the **backup** and **daily reports**, and the **recovered backup set encryption key** in case it was forgotten or lost.

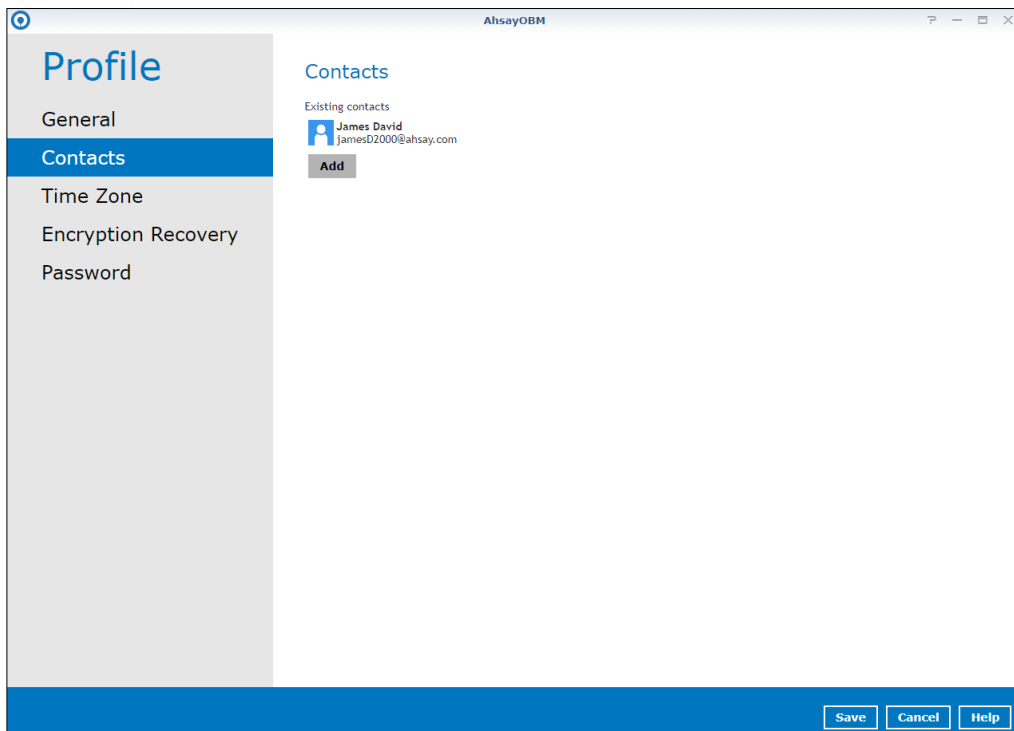


The screenshot shows the AhsayOBM web interface. On the left is a sidebar with a 'Profile' header and a list of menu items: 'General', 'Contacts' (highlighted in blue), 'Time Zone', 'Encryption Recovery', and 'Password'. The main content area is titled 'Contacts' and contains the text 'Existing contacts' above an 'Add' button. A mouse cursor is pointing at the 'Add' button. At the bottom right of the interface are three buttons: 'Save', 'Cancel', and 'Help'.

E-mail cannot be left blank.

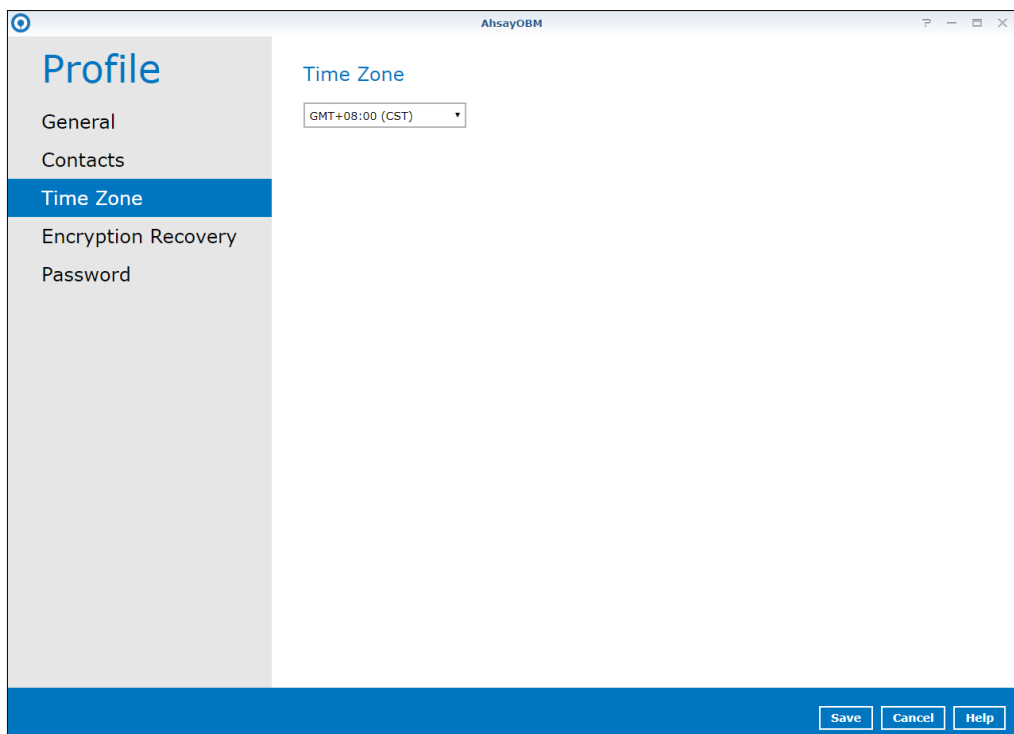


The screenshot shows the 'New Contact' form in the AhsayOBM web interface. The form fields are: 'Name' (filled with 'James David'), 'E-mail' (filled with 'jamesD2000@ahsay.com' and highlighted with a red rectangle), a checkbox for 'Send me encrypted email (S/MIME)' (unchecked), 'Address' (filled with 'Lincoln 3601'), 'Company' (filled with 'Ahsay'), 'Website' (filled with 'www.ahsay.com'), 'Phone 1' (filled with '+151457-010'), and 'Phone 2' (filled with '+151441-235'). At the bottom right are 'OK' and 'Cancel' buttons.

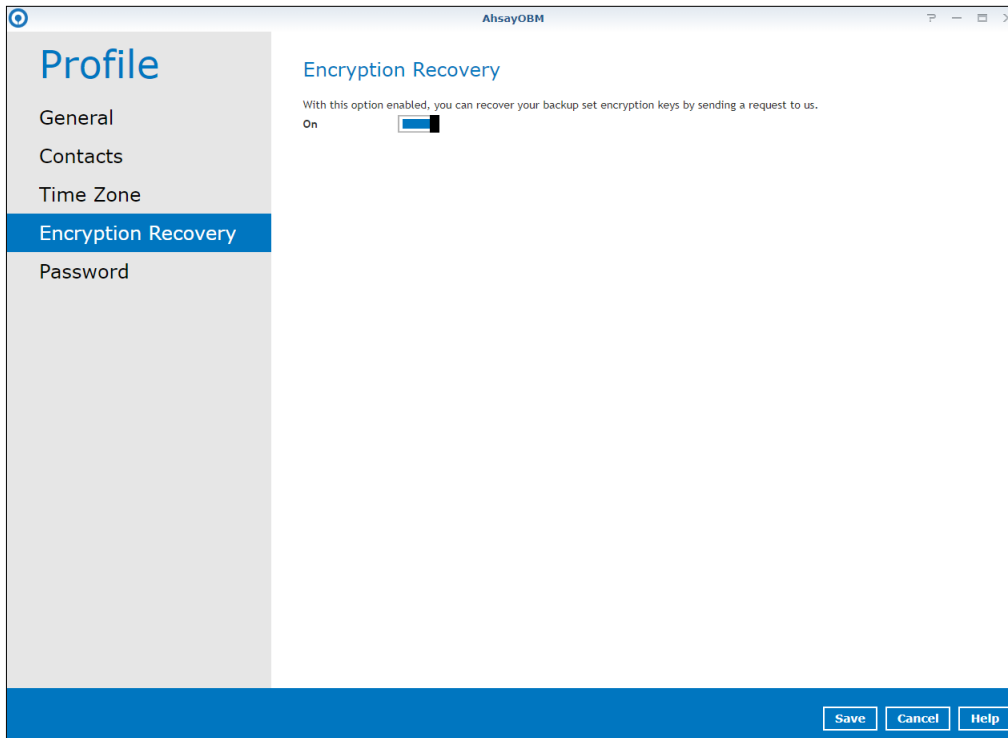


Note: You can add multiple contacts here.

This is the **time zone** of the machine where the AhsayOBM is installed. To ensure that the backup will run accurately at your specified time, setup the correct time.

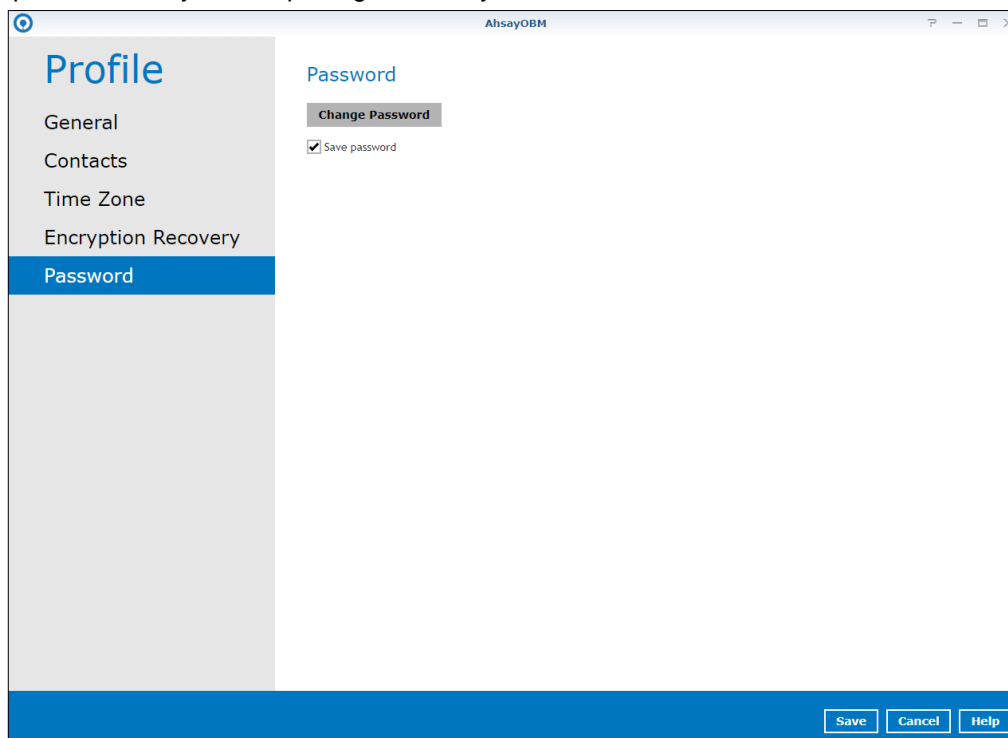


Backup set encryption key can be recovered by turning this feature on.



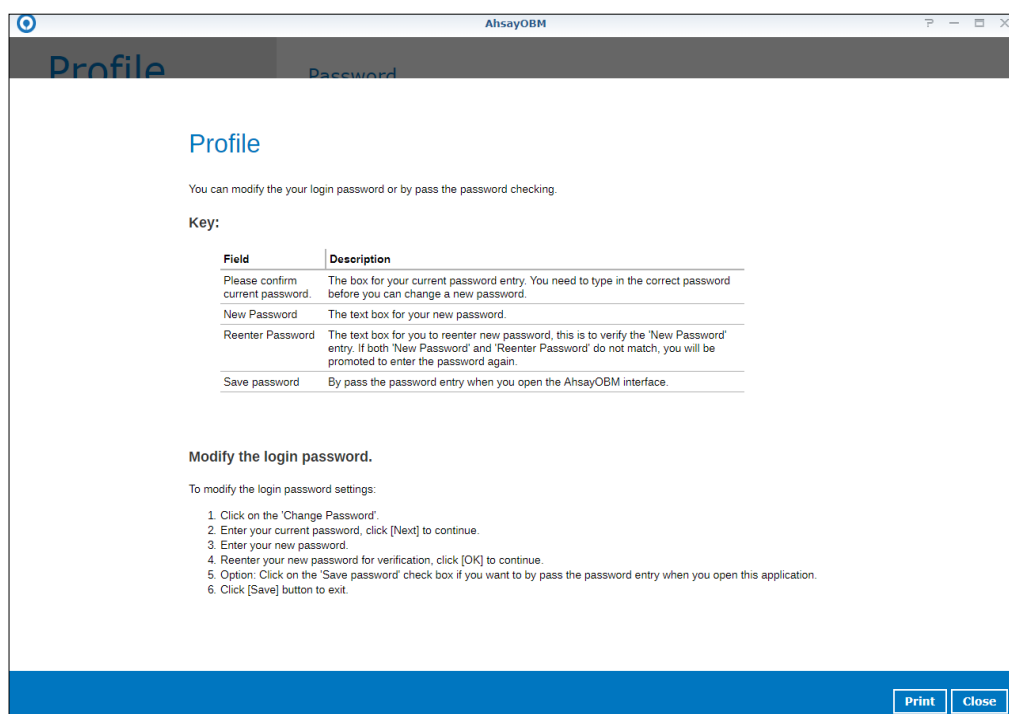
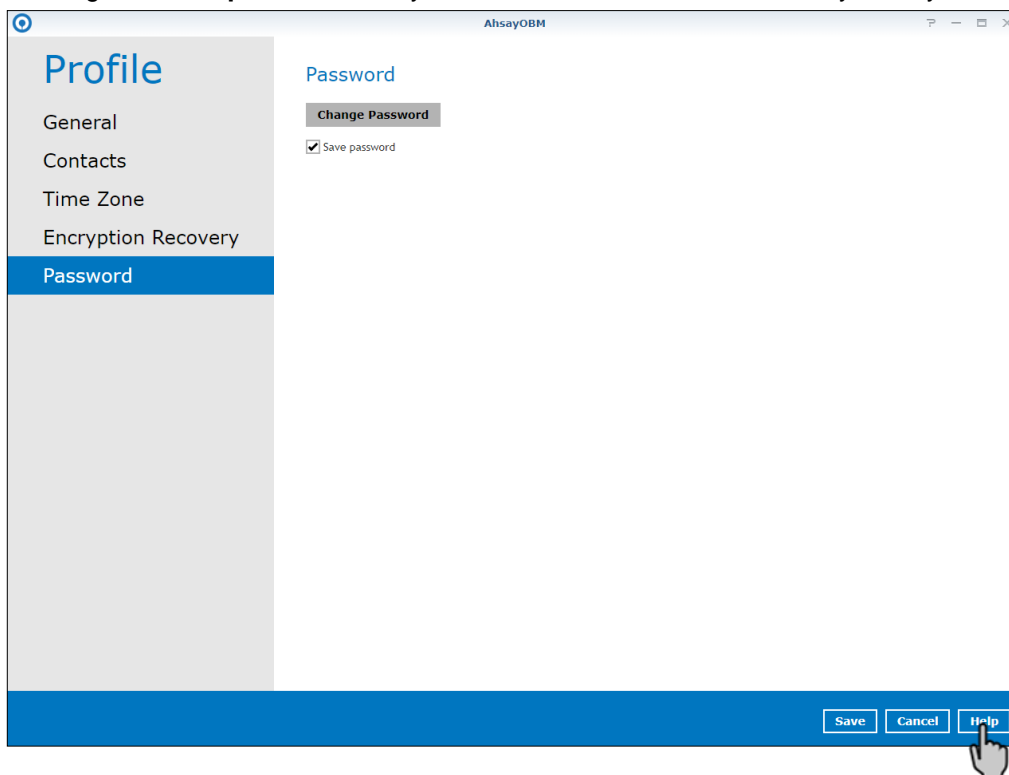
Note: This option may not be available. Please contact your backup service provider for details.

Login password can be modified anytime. You can also tick the **save password** box to bypass the password entry when opening the AhsayOBM interface.



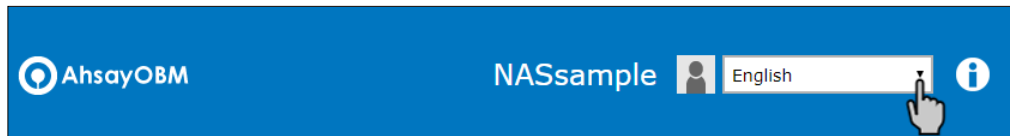
Online Help

Clicking on the **help** tab will show you the information and instructions you may need.



Language

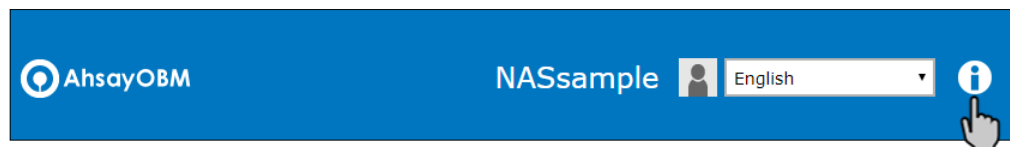
This option is used to change the language of the user interface. The list of available languages depends on the backup service provider.



Once the language is set, it will reflect on the AhsayOBM interface right away.

Information

The **information** icon displays the product version and system information of the machine where the AhsayOBM is installed.

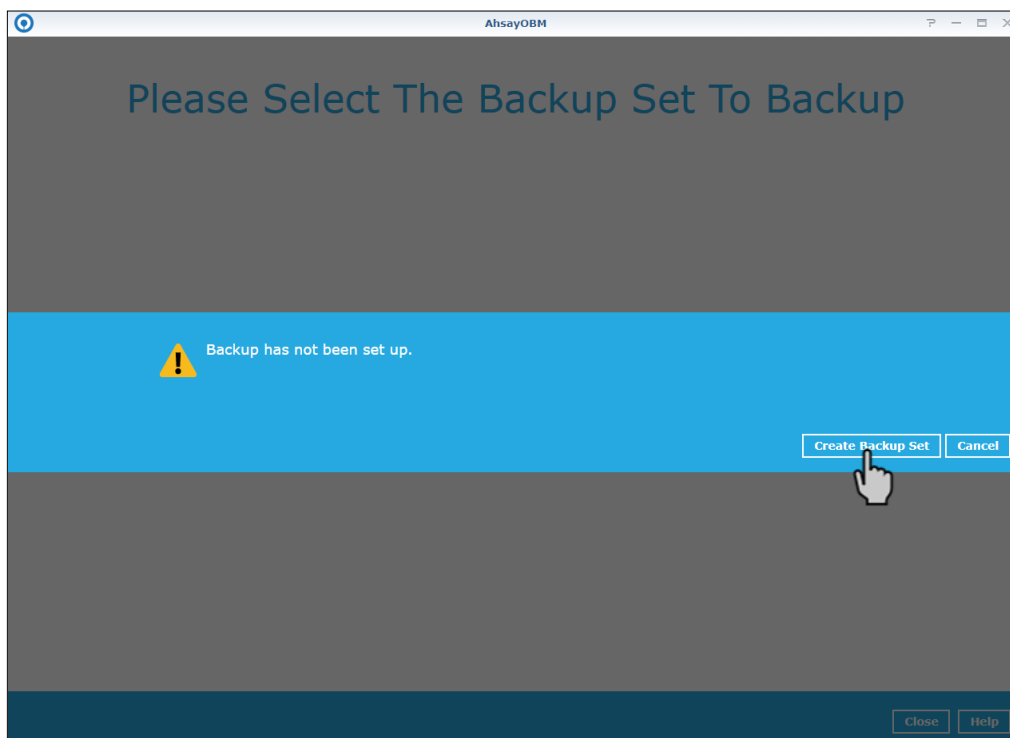


Backup

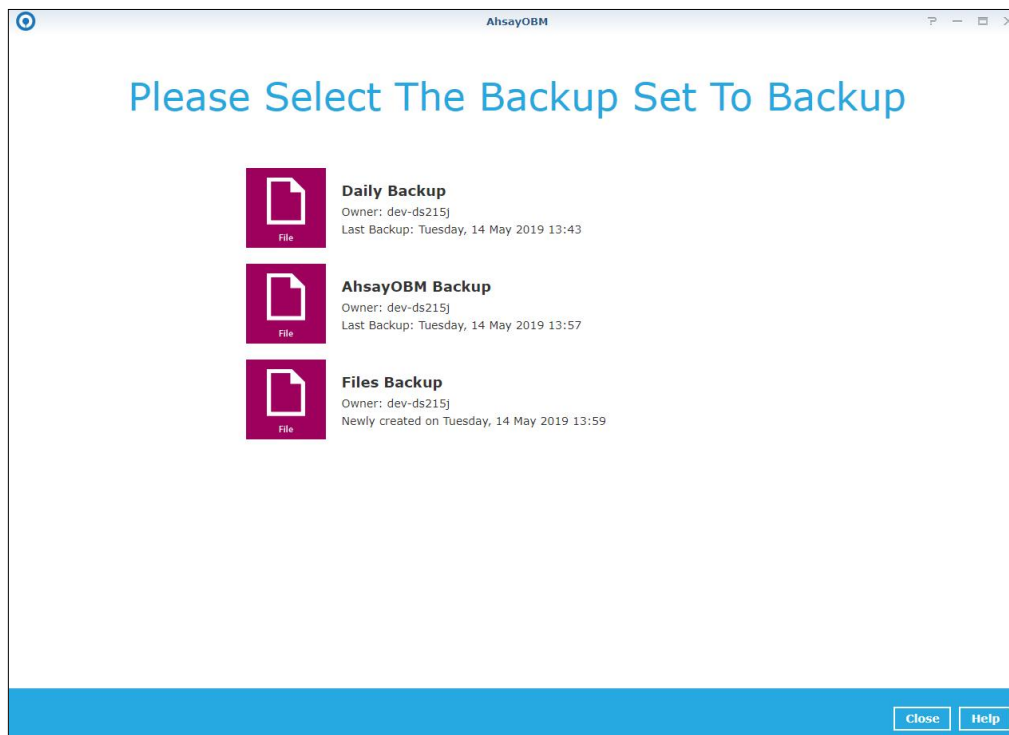
This feature is used to run your backup set(s).



When using AhsayOBM for the first time, you will be asked to create a new backup set first.



If there is an existing backup set or after a backup set is created, choose the backup set you want to backup.



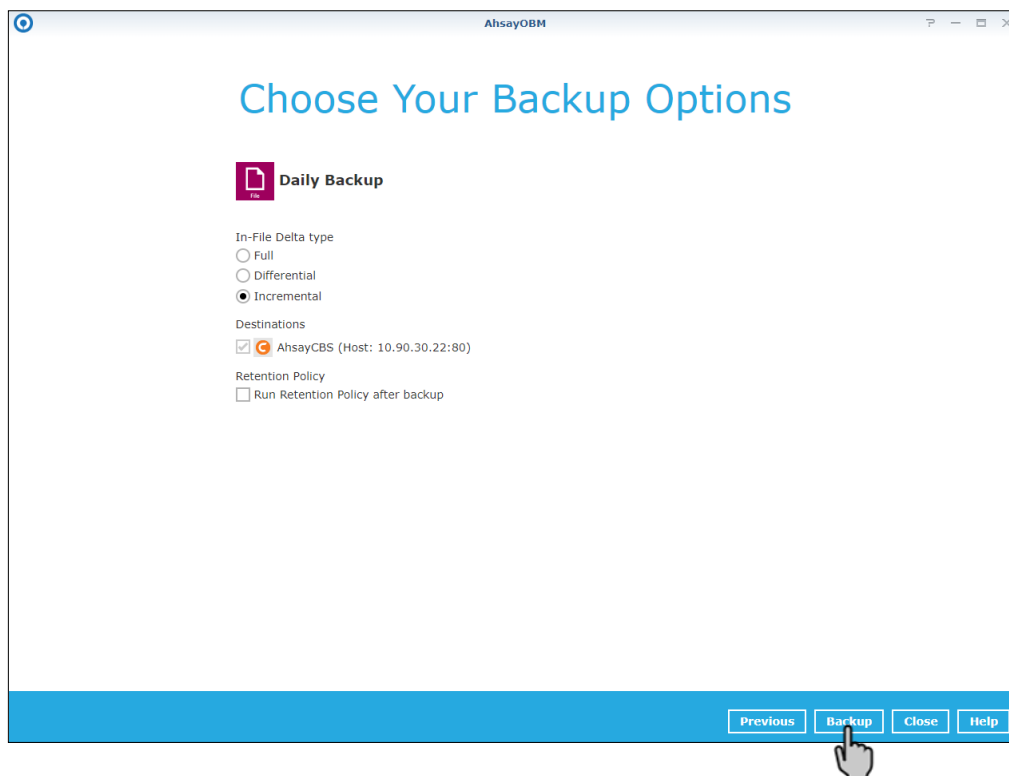
There are three (3) options in the In-File Delta type section:

- **Full** – this type of backup will capture all the data that you want to secure. When you run a backup job for the first time, AhsayOBM will run a full backup regardless of the in-file delta setting.
- **Differential** – this type of backup captures only the changes made as compared with the last uploaded full file only and not since the last differential backup.
- **Incremental** – this type of backup captures only the changes compared with the last uploaded full or delta file.

The **destination** depends on the selected destination storage(s) during the creation of backup set.

Enabling the **retention policy** will help you save hard disk quota in the long run.

Click **backup** to start the backup job.

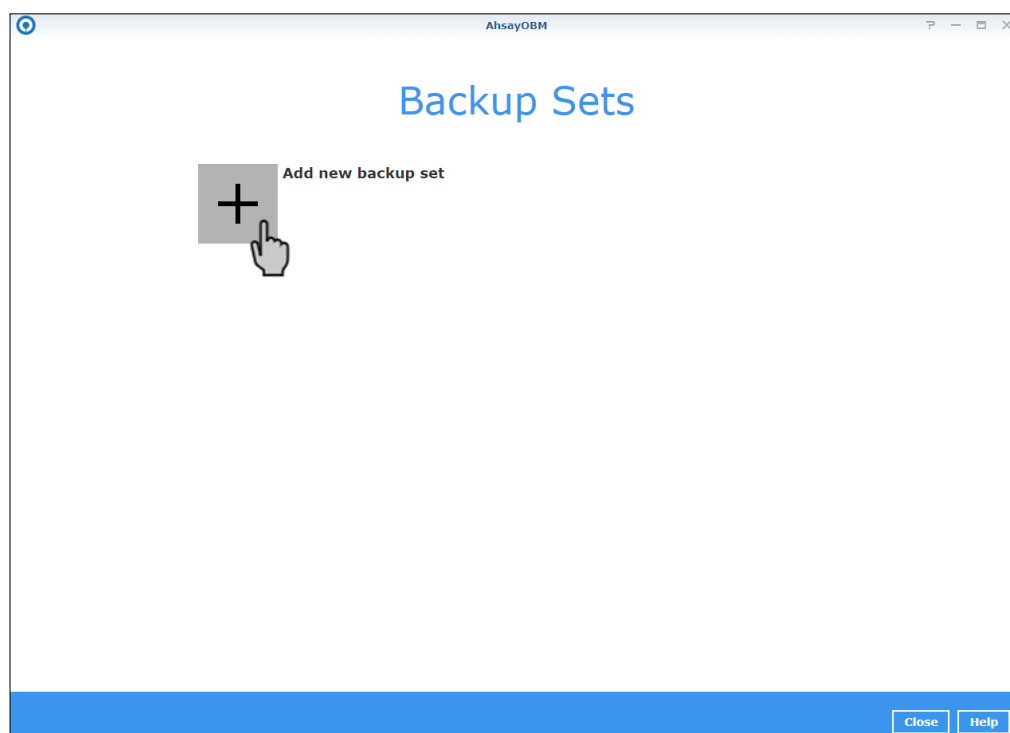


Backup Sets

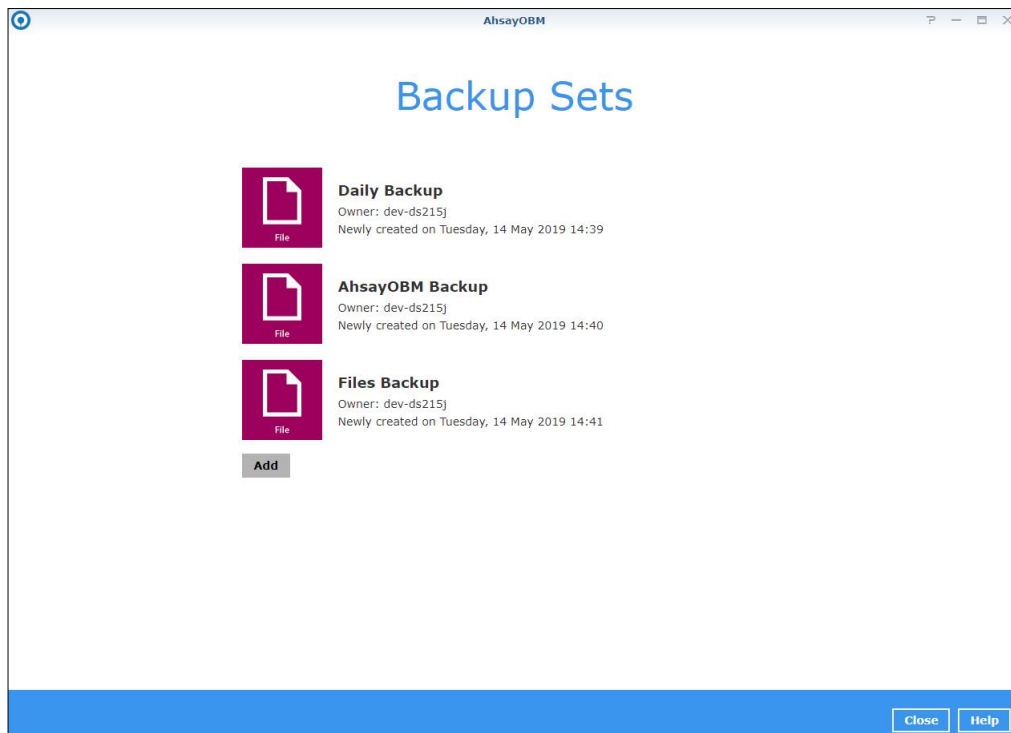
A **backup set** is a place for files and/or folders of your backed-up data. This feature allows the user to select files individually or entirely in a selected folder to back up. It is also used to delete a specific backup set.



When using AhsayOBM for the first time, you must add a new backup set first.

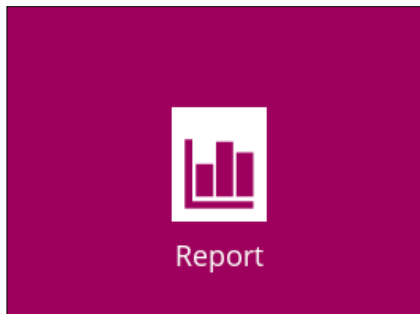


Created backup sets will be displayed.



Report

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



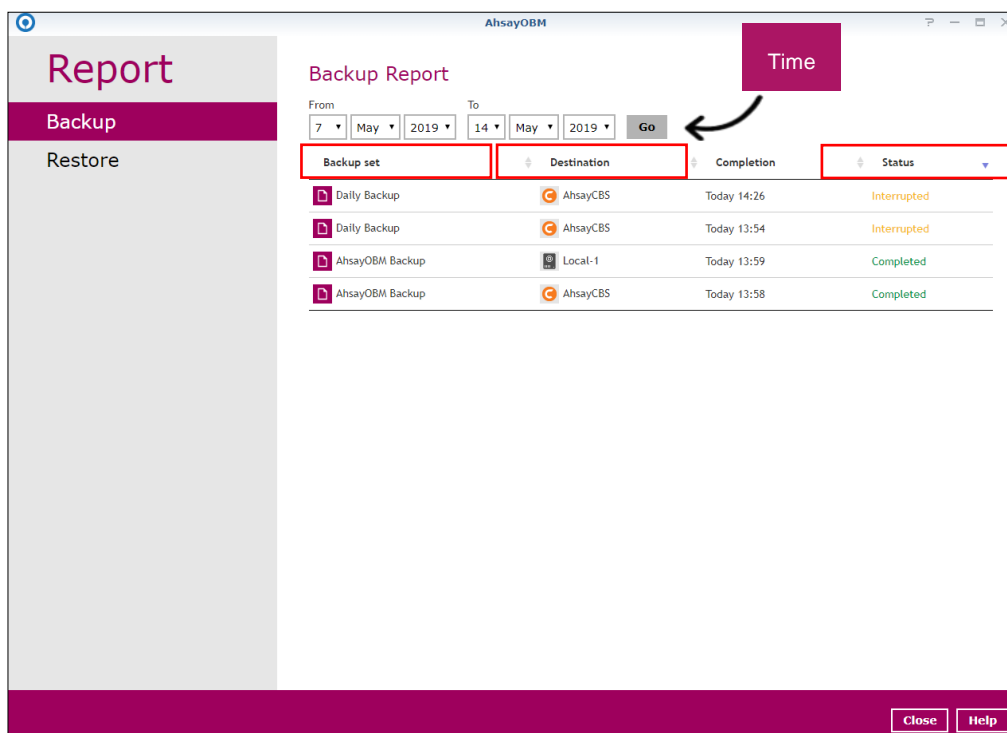
There are two (2) option available for this feature:

- **Backup**
- **Restore**

Backup

This feature is used for viewing backup report(s). There are four (4) filters that can be applied on this feature, namely:

- **Time**
- **Backup set**
- **Destination**
- **Status**



By setting the **time**, you will see the list of all backup report(s) within that period.

Backup Report

From To

| Backup set | Destination | Completion | Status |
|-----------------|---------------|-------------|-------------|
| NAS Backup | Local-1 | Today 15:53 | Completed |
| NAS Backup | AhsayCBS | Today 15:53 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 15:50 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 15:41 | Completed |
| Daily Backup | GoogleDrive-1 | Today 15:39 | Interrupted |

Backup report(s) can be sorted alphabetically by using the **backup up set** filter.

Backup Report

From To

| Backup set | Destination | Completion | Status |
|-----------------|---------------|-------------|-------------|
| AhsayOBM Backup | AhsayCBS | Today 15:50 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 15:41 | Completed |
| Daily Backup | GoogleDrive-1 | Today 15:39 | Interrupted |
| NAS Backup | Local-1 | Today 15:53 | Completed |
| NAS Backup | AhsayCBS | Today 15:53 | Completed |

You can view all the backup report(s) in your storage location by sorting the **destination** filter

Backup Report











From To

| Backup set | Destination | Completion | Status |
|-----------------|---------------|-------------|-------------|
| NAS Backup | Local-1 | Today 15:53 | Completed |
| NAS Backup | AhsayCBS | Today 15:53 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 15:50 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 15:41 | Completed |
| Daily Backup | GoogleDrive-1 | Today 15:39 | Interrupted |

You can sort all backup reports with the same status by using the **status** filter.

Backup Report











From To

| Backup set | Destination | Completion | Status |
|---|---|-------------|-------------|
|  AhsayOBM Backup |  AhsayCBS | Today 15:50 | Completed |
|  AhsayOBM Backup |  AhsayCBS | Today 15:41 | Completed |
|  NAS Backup |  Local-1 | Today 15:53 | Completed |
|  NAS Backup |  AhsayCBS | Today 15:53 | Completed |
|  Daily Backup |  GoogleDrive-1 | Today 15:39 | Interrupted |

In order to view a backup report in detail, select a backup set.



Backup Report

From To

| Backup set | Destination | Completion | Status |
|--|---|-------------|-------------|
|  AhsayOBM Backup |  AhsayCBS | Today 15:50 | Completed |
|  AhsayOBM Backup |  AhsayCBS | Today 15:41 | Completed |
|  NAS Backup |  Local-1 | Today 15:53 | Completed |
|  NAS Backup |  AhsayCBS | Today 15:53 | Completed |
|  Daily Backup |  GoogleDrive-1 | Today 15:39 | Interrupted |

Click **view log** to display the event log during a backup job.

Backup Report

| | |
|------------------------------|---|
| Backup set |  AhsayOBM Backup |
| Destination |  AhsayCBS |
| Job | 14/05/2019 15:49 |
| Time | Today 15:49 - 15:50 (CST) |
| Status | ✓ Completed successfully |
| New files * | 0 |
| Updated files * | 0 |
| Updated access permissions * | 0 |
| Moved files * | 0 |
| Deleted files * | 0 |

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

| Report | | |
|---------------|---|---------------------|
| Backup Report | | |
| Type | Log | Time |
| Information | The In-File Delta Backup feature is not enabled on this account. Please be aware that files are being backed up in their entirety in this backup job. | 14/05/2019 15:50:06 |
| Information | Start [AhsayOBM v8.2.1.0] | 14/05/2019 15:50:19 |
| Information | Saving encrypted backup set encryption keys to server... | 14/05/2019 15:50:20 |
| Information | Start Backup ... [In-File Delta: Full] | 14/05/2019 15:50:21 |
| Information | Using Temporary Directory /root/temp/1557819575416/OBS@1557819604843 | 14/05/2019 15:50:21 |
| Information | Start running pre-commands | 14/05/2019 15:50:22 |
| Information | Finished running pre-commands | 14/05/2019 15:50:22 |
| Information | Downloading server file list... | 14/05/2019 15:50:22 |
| Information | Downloading server file list... Completed | 14/05/2019 15:50:28 |
| Information | Reading backup source from hard disk... | 14/05/2019 15:50:30 |
| Information | Getting all files which have been moved... | 14/05/2019 15:50:31 |
| Information | Getting all files which have been moved... Completed | 14/05/2019 15:50:31 |
| Information | Reading backup source from hard disk... Completed | 14/05/2019 15:50:31 |
| Information | Total New Files = 0 | 14/05/2019 15:50:32 |
| Information | Total New Directories = 0 | 14/05/2019 15:50:32 |
| Information | Total New Links = 0 | 14/05/2019 15:50:32 |
| Information | Total Updated Files = 0 | 14/05/2019 15:50:32 |
| Information | Total Attributes Changed Files = 0 | 14/05/2019 15:50:32 |
| Information | Total Deleted Files = 0 | 14/05/2019 15:50:32 |
| Information | Total Deleted Directories = 0 | 14/05/2019 15:50:32 |
| Information | Total Deleted Links = 0 | 14/05/2019 15:50:32 |
| Information | Total Moved Files = 0 | 14/05/2019 15:50:32 |
| Information | Saving encrypted backup file index to 1557819575416/blocks at destination AhsayCBS... | 14/05/2019 15:50:34 |
| Information | Saving encrypted backup file index to 1557819575416/blocks/2019-05-14-15-49-59 at destination AhsayCBS... | 14/05/2019 15:50:37 |
| Information | Start running post-commands | 14/05/2019 15:50:39 |
| Information | Finished running post-commands | 14/05/2019 15:50:39 |
| Information | Deleting temporary file /root/temp/1557819575416/OBS@1557819604843 | 14/05/2019 15:50:42 |

You can apply filter on the status of the event by clicking the drop-down list.

| Report | | |
|---------------|---|---------------------|
| Backup Report | | |
| Type | Log | Time |
| Information | The In-File Delta Backup feature is not enabled on this account. Please be aware that files are being backed up in their entirety in this backup job. | 14/05/2019 15:50:06 |
| Information | Start [AhsayOBM v8.2.1.0] | 14/05/2019 15:50:19 |
| Information | Saving encrypted backup set encryption keys to server... | 14/05/2019 15:50:20 |
| Information | Start Backup ... [In-File Delta: Full] | 14/05/2019 15:50:21 |
| Information | Using Temporary Directory /root/temp/1557819575416/OBS@1557819604843 | 14/05/2019 15:50:21 |
| Information | Start running pre-commands | 14/05/2019 15:50:22 |
| Information | Finished running pre-commands | 14/05/2019 15:50:22 |
| Information | Downloading server file list... | 14/05/2019 15:50:22 |
| Information | Downloading server file list... Completed | 14/05/2019 15:50:28 |
| Information | Reading backup source from hard disk... | 14/05/2019 15:50:30 |
| Information | Getting all files which have been moved... | 14/05/2019 15:50:31 |
| Information | Getting all files which have been moved... Completed | 14/05/2019 15:50:31 |
| Information | Reading backup source from hard disk... Completed | 14/05/2019 15:50:31 |
| Information | Total New Files = 0 | 14/05/2019 15:50:32 |
| Information | Total New Directories = 0 | 14/05/2019 15:50:32 |
| Information | Total New Links = 0 | 14/05/2019 15:50:32 |
| Information | Total Updated Files = 0 | 14/05/2019 15:50:32 |
| Information | Total Attributes Changed Files = 0 | 14/05/2019 15:50:32 |
| Information | Total Deleted Files = 0 | 14/05/2019 15:50:32 |
| Information | Total Deleted Directories = 0 | 14/05/2019 15:50:32 |
| Information | Total Deleted Links = 0 | 14/05/2019 15:50:32 |
| Information | Total Moved Files = 0 | 14/05/2019 15:50:32 |
| Information | Saving encrypted backup file index to 1557819575416/blocks at destination AhsayCBS... | 14/05/2019 15:50:34 |
| Information | Saving encrypted backup file index to 1557819575416/blocks/2019-05-14-15-49-59 at destination AhsayCBS... | 14/05/2019 15:50:37 |
| Information | Start running post-commands | 14/05/2019 15:50:39 |
| Information | Finished running post-commands | 14/05/2019 15:50:39 |
| Information | Deleting temporary file /root/temp/1557819575416/OBS@1557819604843 | 14/05/2019 15:50:42 |

You can choose to view the number of logs per page by clicking the drop-down list.

Report

Backup Report

| Type | Log | Time |
|------|---|---------------------|
| 1 | The In-File Delta Backup feature is not enabled on this account. Please be aware that files are being backed up in their entirety in this backup job. | 14/05/2019 15:50:06 |
| 1 | Start [AhsayOBM v8.2.1.0] | 14/05/2019 15:50:19 |
| 1 | Saving encrypted backup set encryption keys to server... | 14/05/2019 15:50:20 |
| 1 | Start Backup ... [In-File Delta: Full] | 14/05/2019 15:50:21 |
| 1 | Using Temporary Directory /root/temp/1557819575416/OBS@1557819604843 | 14/05/2019 15:50:21 |
| 1 | Start running pre-commands | 14/05/2019 15:50:22 |
| 1 | Finished running pre-commands | 14/05/2019 15:50:22 |
| 1 | Downloading server file list... | 14/05/2019 15:50:22 |
| 1 | Downloading server file list... Completed | 14/05/2019 15:50:28 |
| 1 | Reading backup source from hard disk... | 14/05/2019 15:50:30 |
| 1 | Getting all files which have been moved... | 14/05/2019 15:50:31 |
| 1 | Getting all files which have been moved... Completed | 14/05/2019 15:50:31 |
| 1 | Reading backup source from hard disk... Completed | 14/05/2019 15:50:31 |
| 1 | Total New Files = 0 | 14/05/2019 15:50:32 |
| 1 | Total New Directories = 0 | 14/05/2019 15:50:32 |
| 1 | Total New Links = 0 | 14/05/2019 15:50:32 |
| 1 | Total Updated Files = 0 | 14/05/2019 15:50:32 |
| 1 | Total Attributes Changed Files = 0 | 14/05/2019 15:50:32 |
| 1 | Total Deleted Files = 0 | 14/05/2019 15:50:32 |
| 1 | Total Deleted Directories = 0 | 14/05/2019 15:50:32 |
| 1 | Total Deleted Links = 0 | 14/05/2019 15:50:32 |
| 1 | Total Moved Files = 0 | 14/05/2019 15:50:32 |
| 1 | Saving encrypted backup file index to 1557819575416/blocks at destination AhsayCBS... | 14/05/2019 15:50:34 |
| 1 | Saving encrypted backup file index to 1557819575416/blocks/2019-05-14-15-49-59 at destination AhsayCBS... | 14/05/2019 15:50:37 |
| 1 | Start running post-commands | 14/05/2019 15:50:39 |
| 1 | Finished running post-commands | 14/05/2019 15:50:39 |
| 1 | Deleting temporary file /root/temp/1557819575416/OBS@1557819604843 | 14/05/2019 15:50:42 |
| 1 | Backup Completed Successfully | 14/05/2019 15:50:42 |

Logs per page: 50 Previous 1 Next

Close

Close Help

Restore

This feature is used for viewing restore report(s). You can also apply filter on **time**, **backup set**, **destination** and **status** here.

Report

Backup

Restore

Restore Report

From: 7 May 2019 To: 14 May 2019 Go

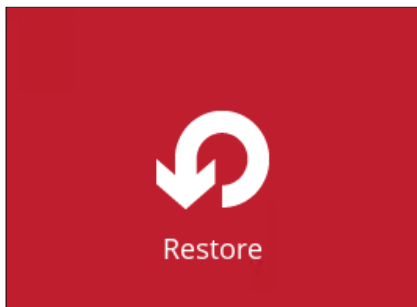
Time

| Backup set | Destination | Job | Status |
|-----------------|-------------|-------------|-----------|
| AhsayOBM Backup | AhsayCBS | Today 16:10 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 16:09 | Completed |
| NAS Backup | Local-1 | Today 15:53 | Completed |
| AhsayOBM Backup | AhsayCBS | Today 15:43 | Completed |

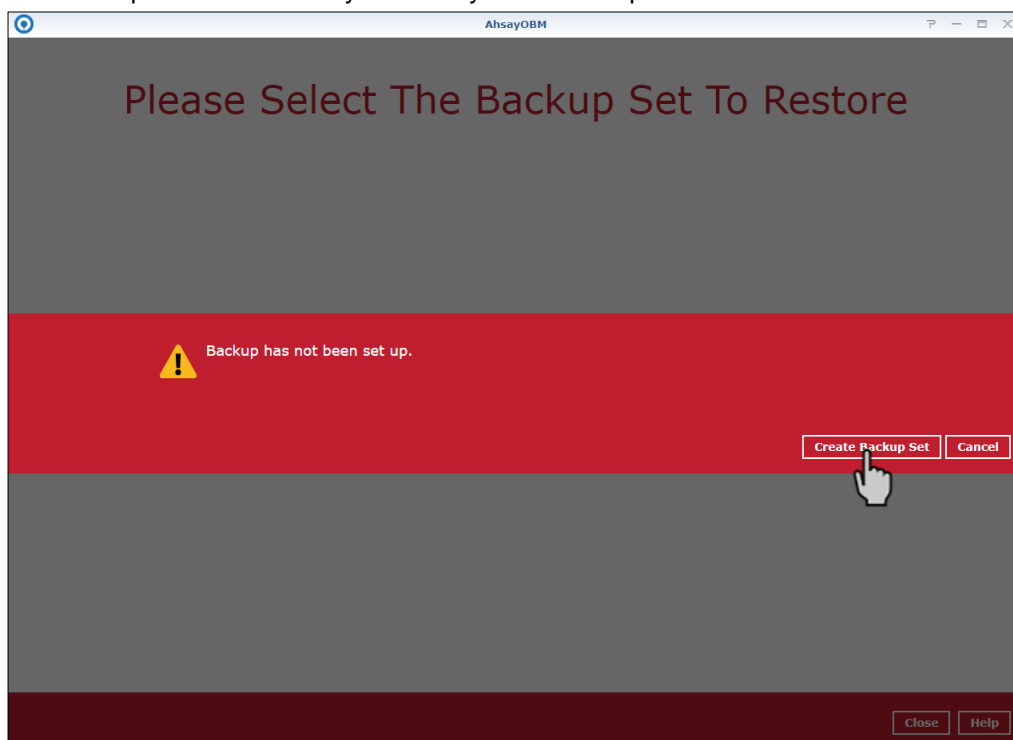
Close Help

Restore

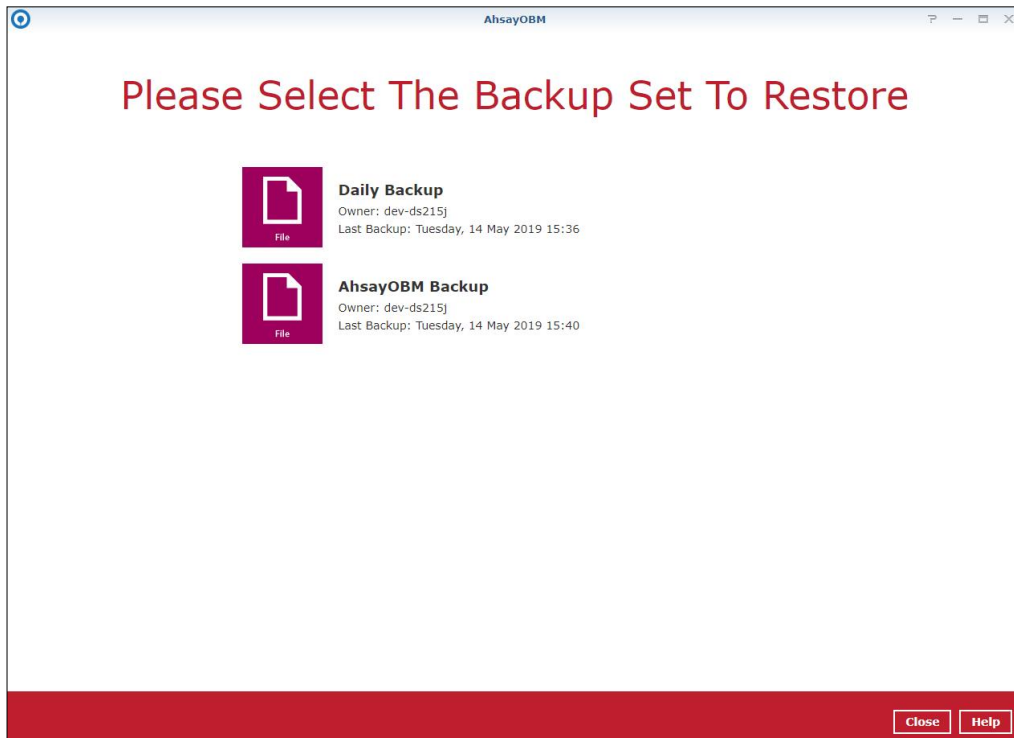
This feature is used to copy the backed-up file(s) from the backup set and restoring it to its original location or new location.



If using AhsayOBM for the first time, you will be asked to create a backup set first. A restore cannot be performed unless you already run a backup.

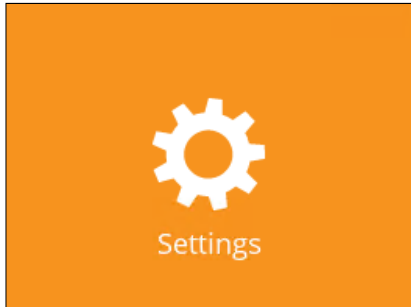


After a backup job has been performed, select a backup set you wish to restore.

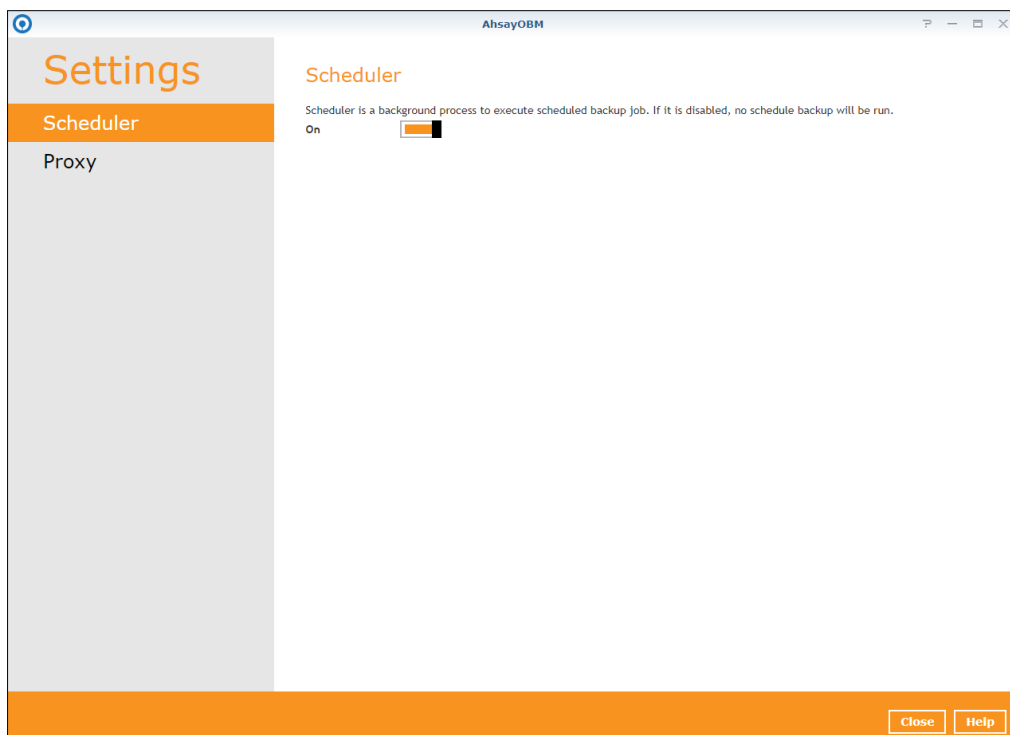


Settings

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



When this feature is on, the user can execute a **scheduled backup** job. Otherwise, no scheduled backup will run.



This feature is used to allow AhsayOBM to gain access to the internet.

The screenshot shows the AhsayOBM Settings window with the 'Proxy (HTTP)' tab selected. The window has a title bar with the text 'AhsayOBM' and standard window controls. On the left, a sidebar contains the 'Settings' title and two menu items: 'Scheduler' and 'Proxy', with 'Proxy' being the active selection. The main content area is titled 'Proxy (HTTP)' and contains the following elements: a toggle switch for 'Use proxy to access the Internet' which is currently turned 'On'; input fields for 'IP address' (containing '10.90.30.22') and 'Port' (containing '443'); a 'Login ID' field (containing 'NASsample'); a 'Password' field (masked with dots); and a 'Test connection' button. At the bottom right of the window, there are three buttons: 'Save', 'Cancel', and 'Help'.

Settings

Scheduler

Proxy

Proxy (HTTP)

Use proxy to access the Internet
On

IP address: 10.90.30.22 Port: 443

Login ID: NASsample

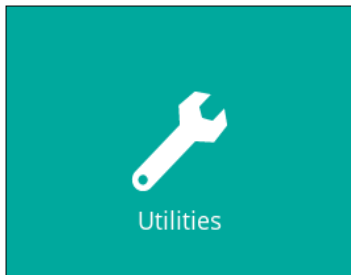
Password:

Test connection

Save Cancel Help

Utilities

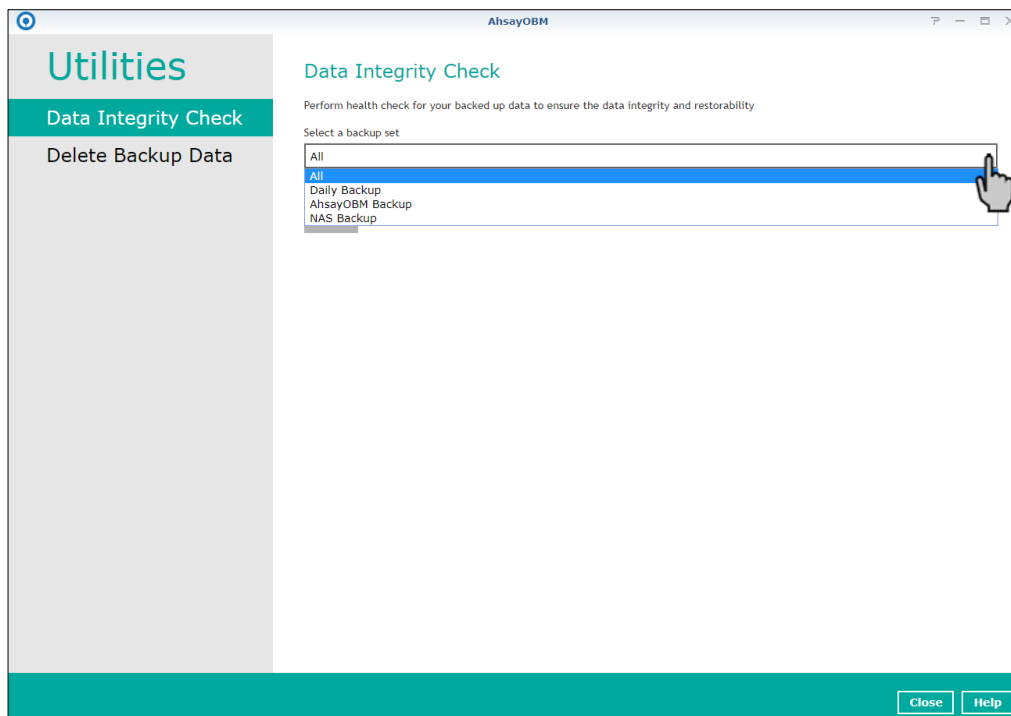
This feature enables user to perform **health check** of the backed-up data and **delete** backed-up data.



Data Integrity Check

This feature is used to identify and remove any corrupted file(s) on the backup set(s) and destination(s) to ensure its restorability.

To start, select a backup set from the drop-down list. You can select a specific or **ALL** backup sets.



Note: Data Integrity Check can only be started when there is no manual, scheduled or continuous backup job running.

If you select a specific backup set, you will also have to choose a specific or **ALL** destination.

Utilities

Data Integrity Check

Delete Backup Data

Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability

Select a backup set

NAS Backup

Select a destination

All

AhsayCBS

Local-1 (/volume1/Git/DevWork/branches)

Start

Close Help

If you select **ALL** backup sets, you will not have to select a destination.

Utilities

Data Integrity Check

Delete Backup Data

Data Integrity Check

Perform health check for your backed up data to ensure the data integrity and restorability

Select a backup set

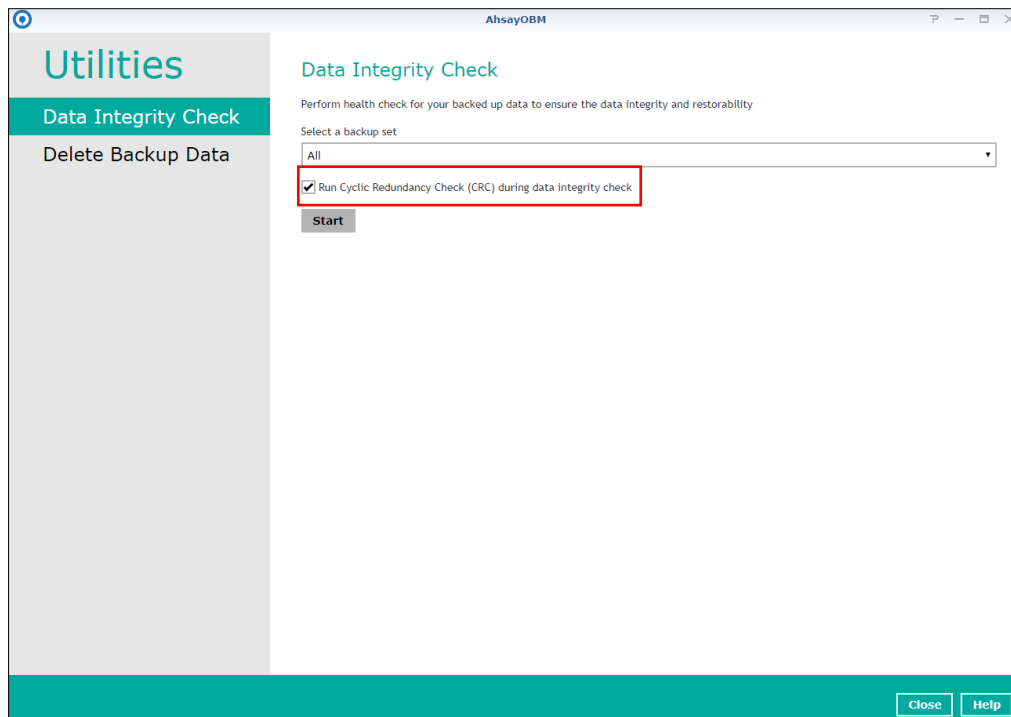
All

☐ Run Cyclic Redundancy Check (CRC) during data integrity check

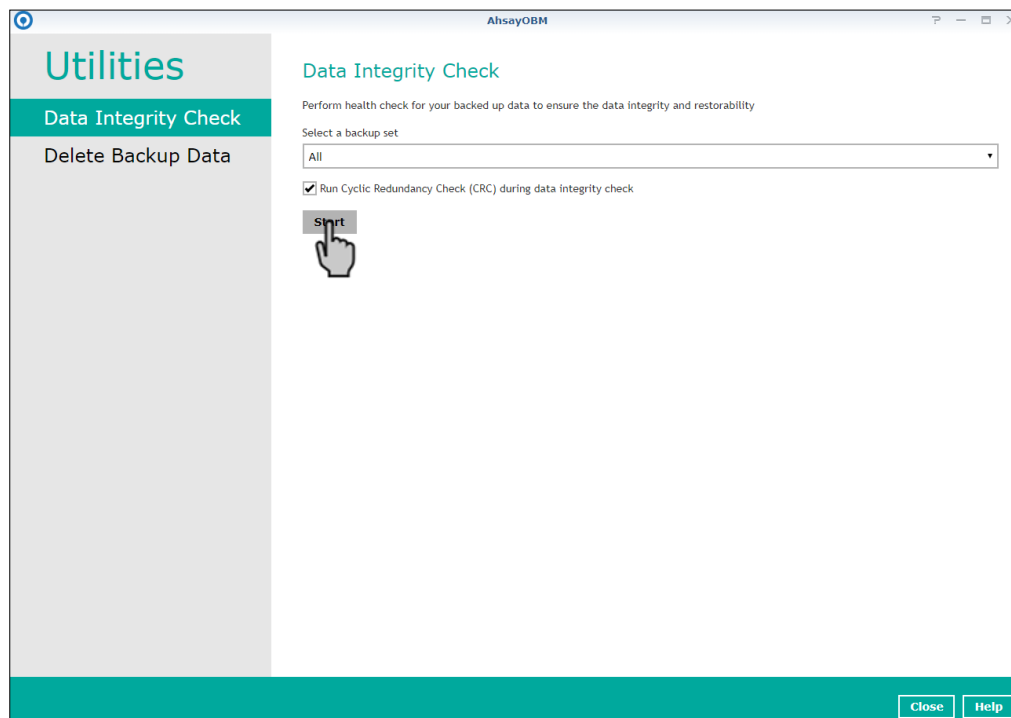
Start

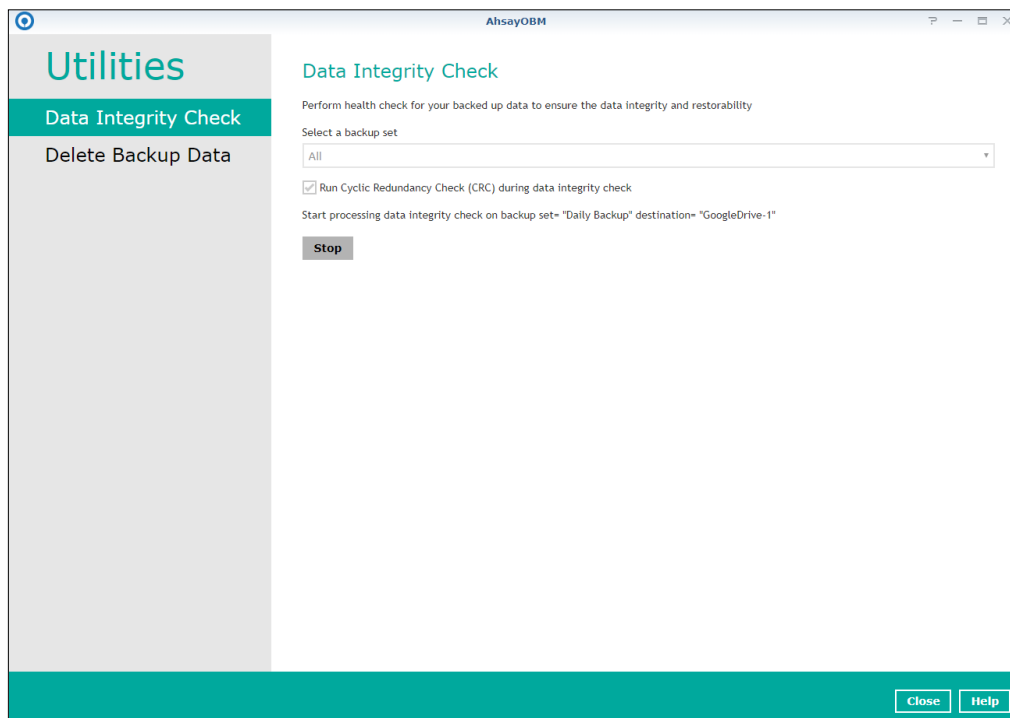
Close Help

By enabling the **Run Cyclic Redundancy (CRC) during data integrity check**, the integrity of the files against the checksum file generated at the time of the backup job will be checked.

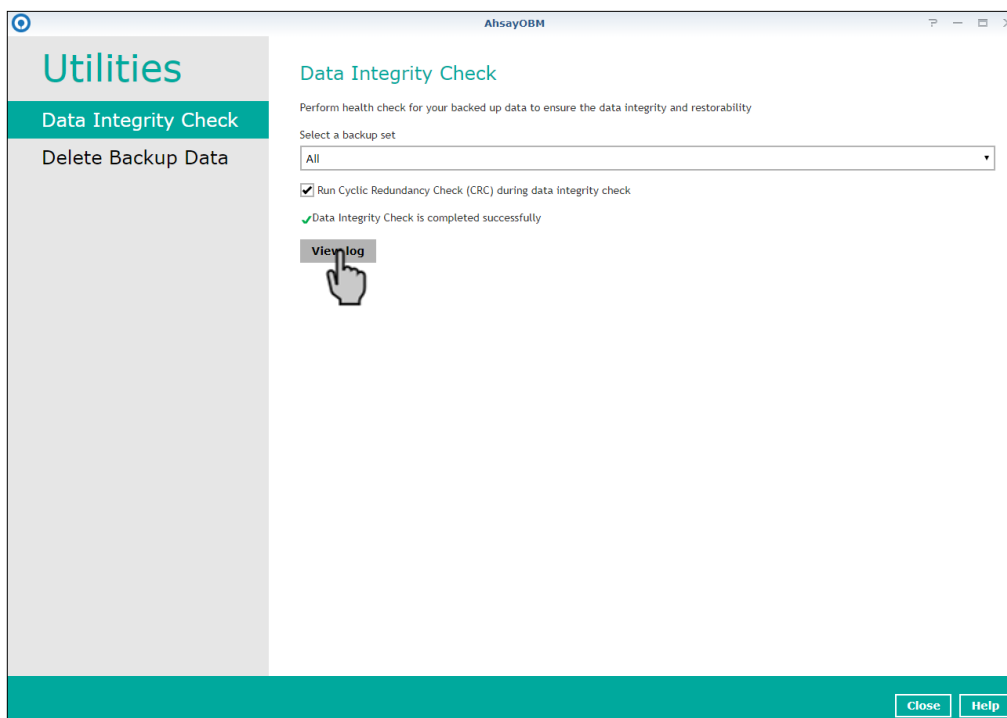


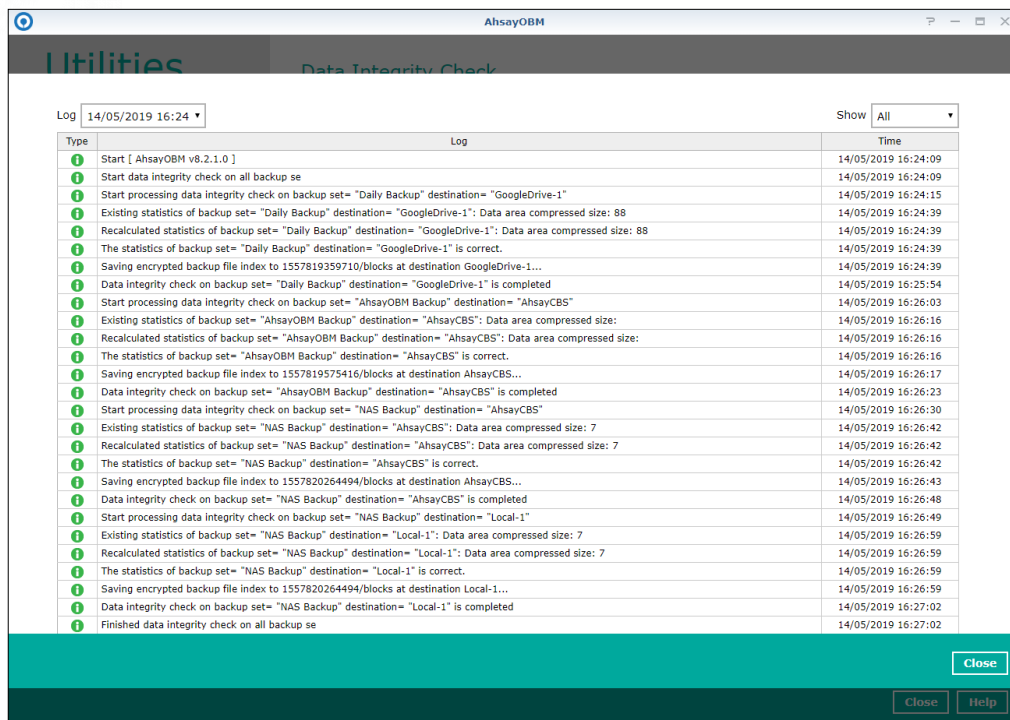
Click **start** to perform the data integrity check.





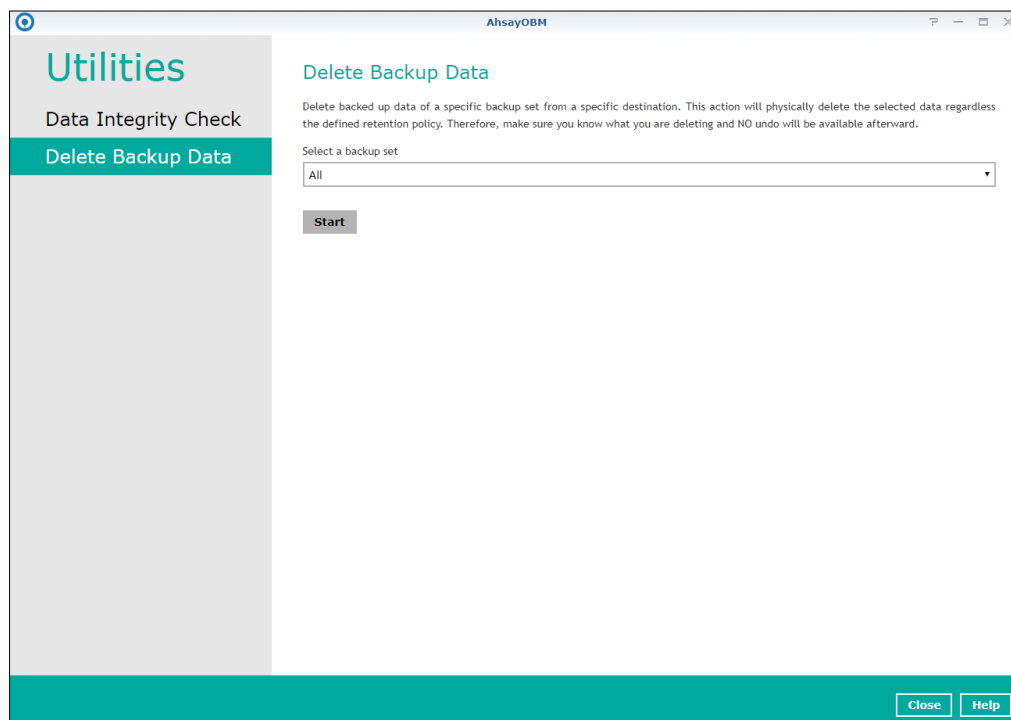
Once completed, click **view log** to see details.





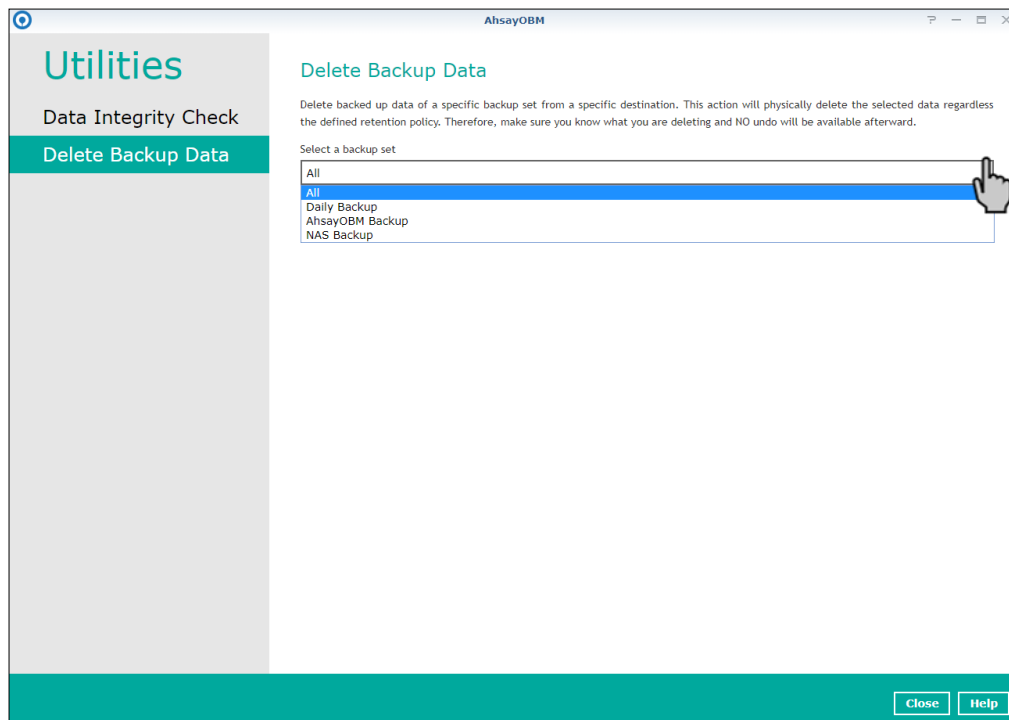
Delete Backup Data

This feature is used to **delete backed-up file(s)** from a specific or all backup sets and destination(s).

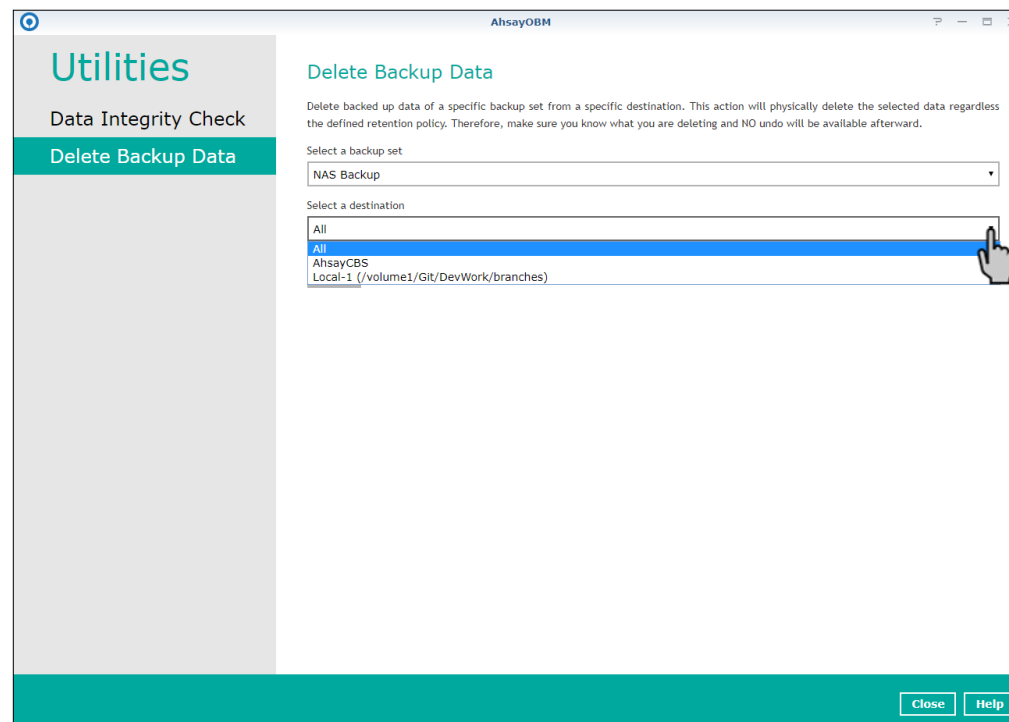


Note: This will only delete the backed-up files from a backup set(s) and destination(s), but the backup set will remain.

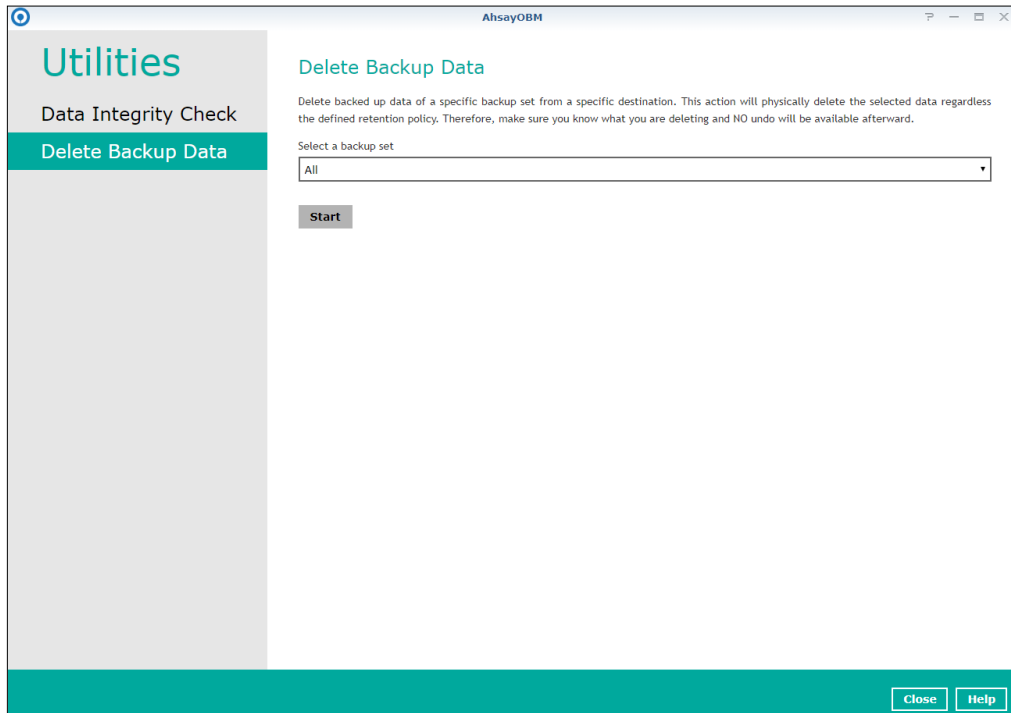
To start, select a backup set from the drop-down list.



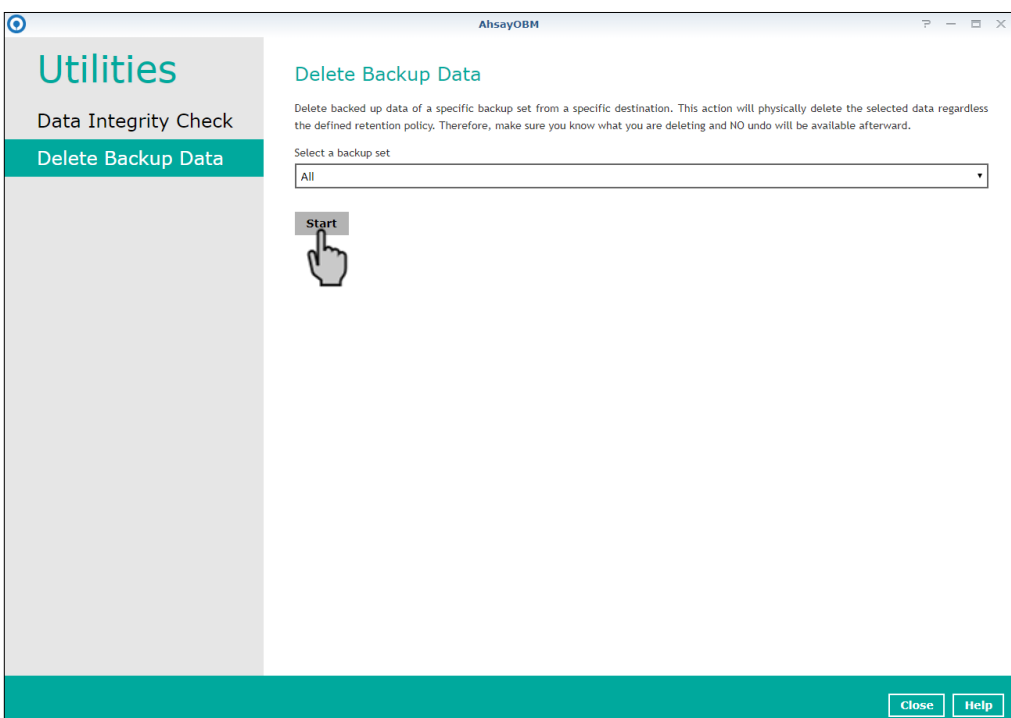
If you select a specific backup set, you will also have to choose a specific or **ALL** destination.



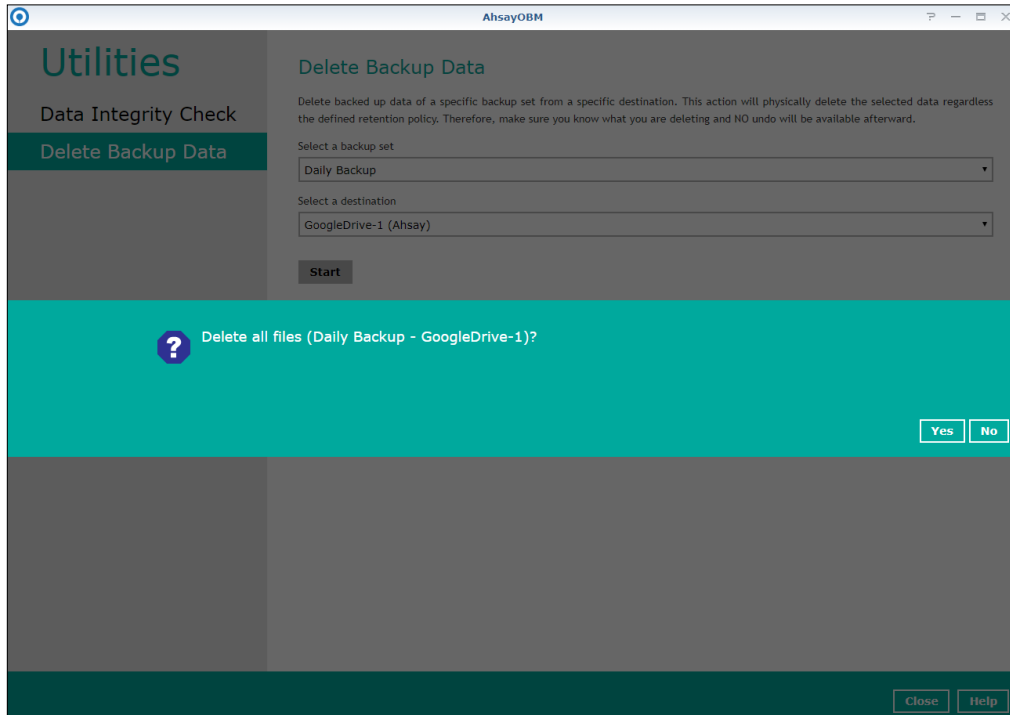
If you select **ALL** backup sets, you will not have to select a destination.



Click **start** to start the deletion of file(s).

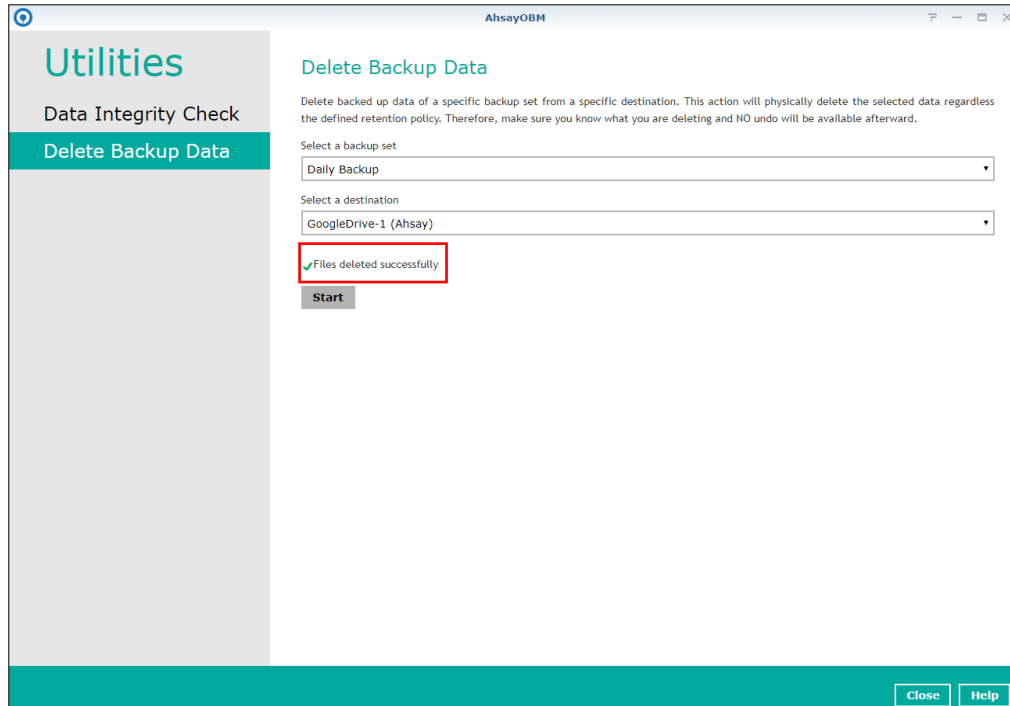


Before the deletion starts, a prompt message will ask for confirmation first. Click **Yes** to confirm.



Note: If you choose “Yes”, the selected backup set and all its backed-up data will be deleted.

Files deleted successfully.

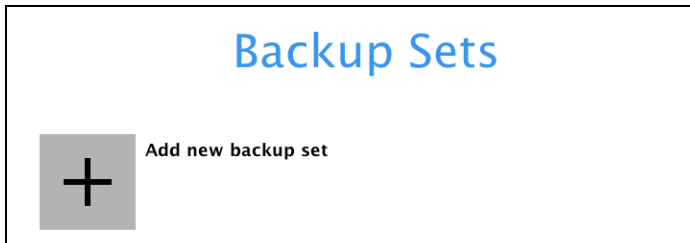


7 Create a Backup Set

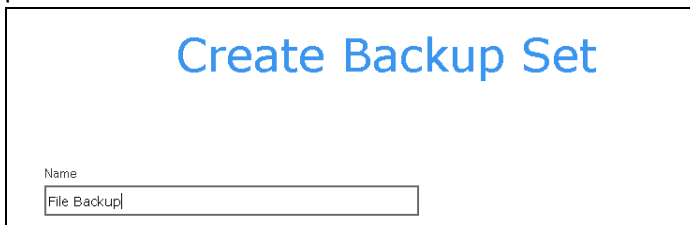
1. Click the **Backup Sets** icon on the main interface of AhsayOBM.



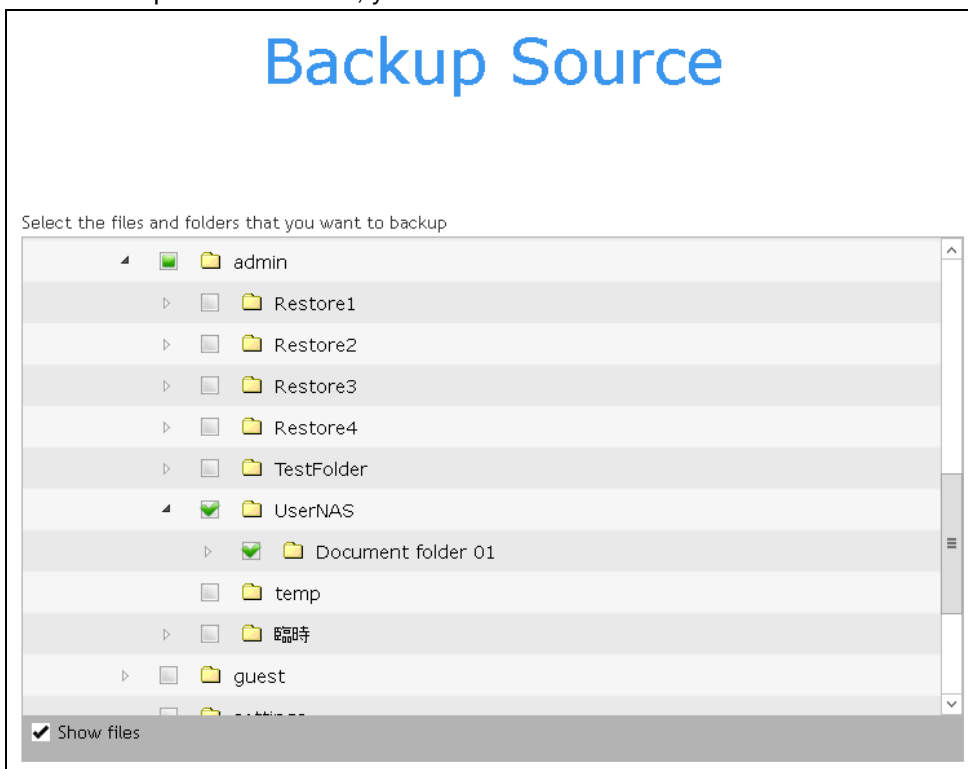
2. Create a backup set by clicking “+ Add new backup set”.



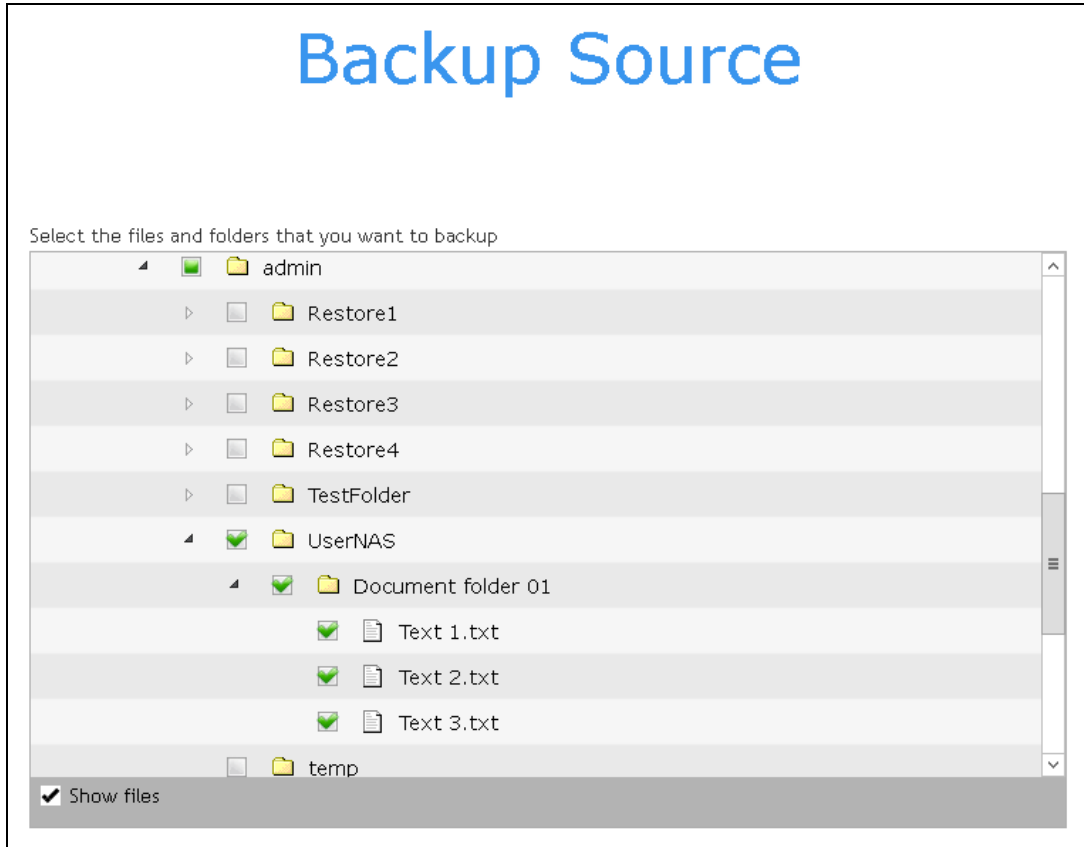
3. When the Create Backup Set window appears, name your new backup set, then click **Next** to proceed.



4. In the Backup Source window, you can select the source files and folders for backup.



5. Click the **Show files** checkbox if you want to select individual file(s) for backup.

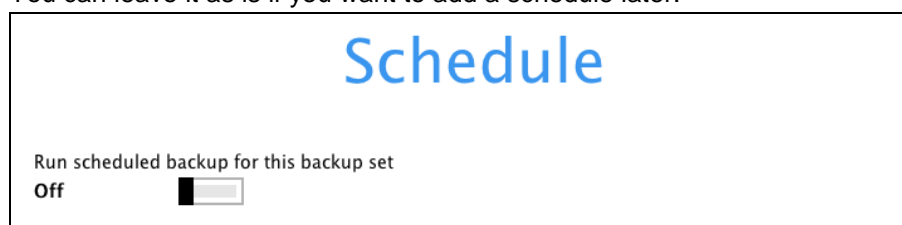


Note: AhsayOBM can only back up files or folders displayed under the File Station on the DiskStation Manager.

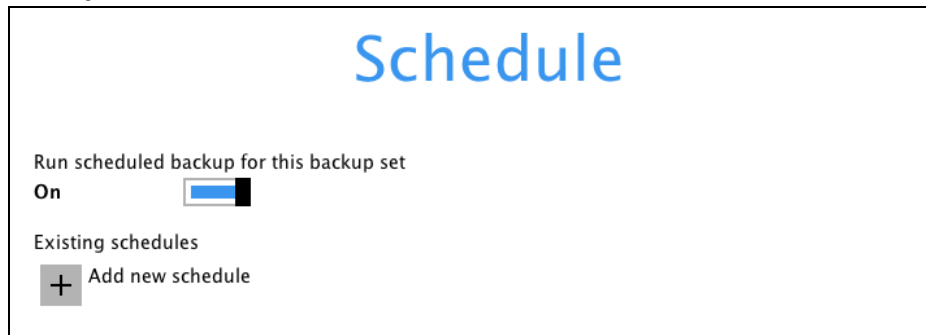
For more details, refer to the following Wiki article:

http://wiki.ahsay.com/doku.php?id=public:8019_faq:faq_about_synologyobm

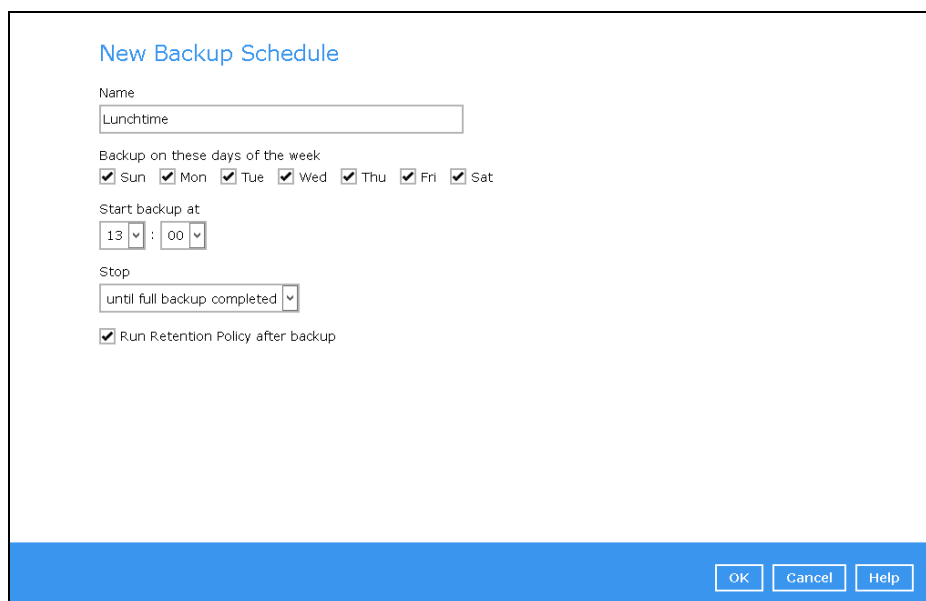
6. In the Backup Source window, click **Next** to proceed.
7. When the Schedule window appears, you can configure a backup schedule to automatically run a backup job at your specified time interval.
- In the Schedule window, the Run scheduled backup for this backup set is **Off** by default.
You can leave it as is if you want to add a schedule later.



If you want to add a schedule now, switch on **Run scheduled backup for this backup set**. Then, click “+” next to Add New schedule.

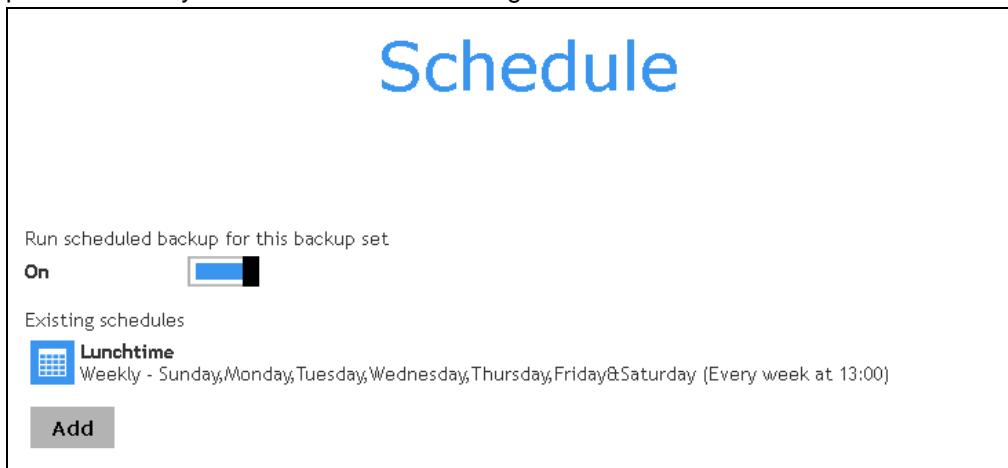


When the **New Backup Schedule** window appears, specify your backup schedule. Then, click **OK** to save your changes and close the New Backup Schedule window.



Note: For details about the options from the dropdown menus, please refer to [Configure Backup Schedule for Automated Backup](#).

8. In case you have added a schedule, it will be shown in the Schedule window. Click **Next** to proceed when you are done with the settings.



The 'Schedule' window has a title bar and a large blue header 'Schedule'. Below the header, it says 'Run scheduled backup for this backup set' followed by a toggle switch labeled 'On'. Underneath, it says 'Existing schedules' and lists one schedule: 'Lunchtime' with a calendar icon, 'Weekly - Sunday, Monday, Tuesday, Wednesday, Thursday, Friday & Saturday (Every week at 13:00)'. At the bottom left is an 'Add' button.

9. The Destination window will appear.



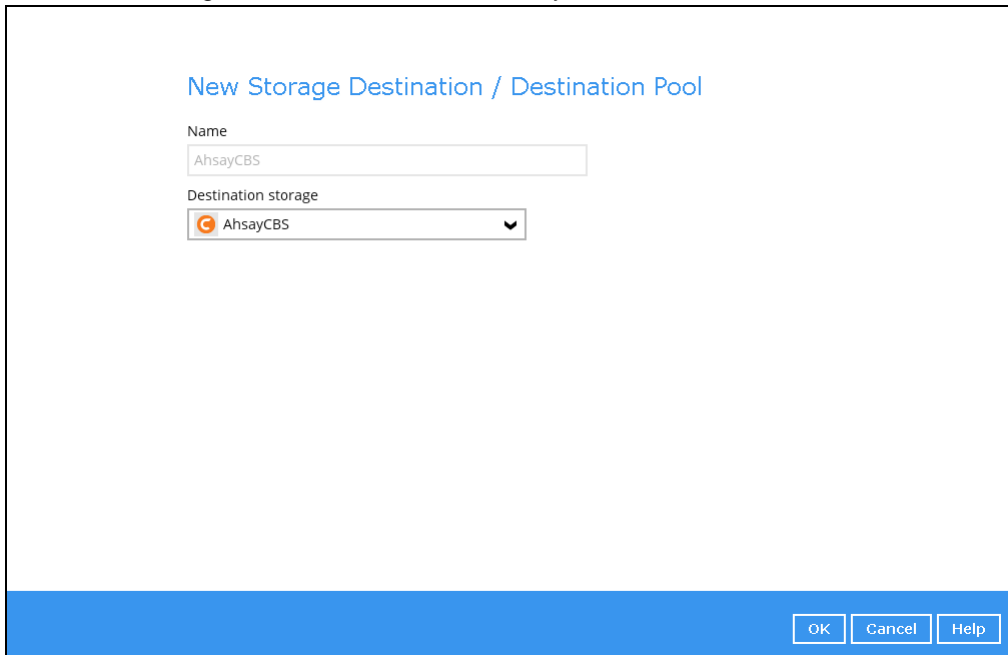
The 'Destination' window has a title bar and a large blue header 'Destination'. Below the header, it says 'Backup mode' with a dropdown menu showing 'Sequential'. Underneath, it says 'Existing storage destinations' and shows a '+ Add new storage destination / destination pool' button. At the bottom are two small arrow icons.

Select the appropriate option from the **Backup mode** drop down menu.

- ⦿ **Sequential** (default value) – run backup jobs to each backup destination one by one
- ⦿ **Concurrent** – run backup jobs to all backup destinations at the same time

To select a backup destination for the backup data storage, click the “+” icon next to Add new storage destination / destination pool.

10. In the New Storage Destination / Destination Pool window, select the destination type and destination storage. Then, click **OK** to confirm your selection.



New Storage Destination / Destination Pool

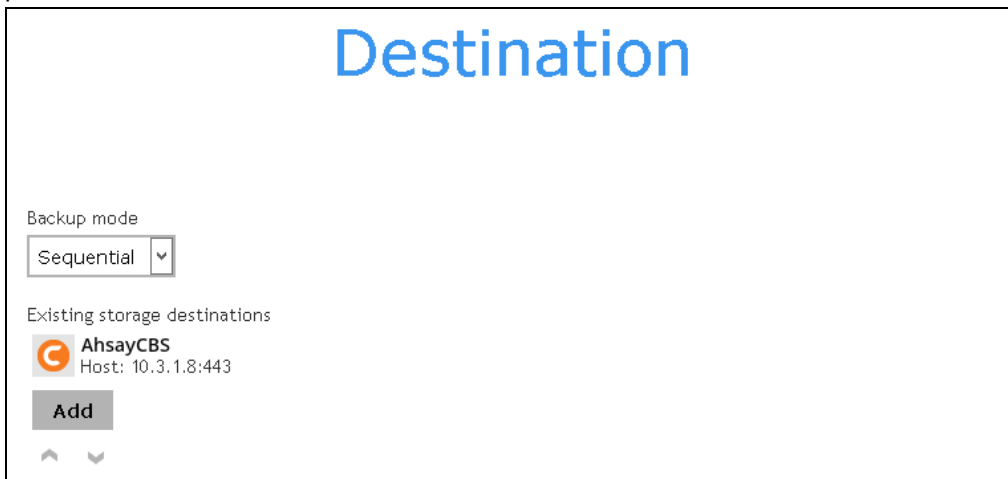
Name
AhsayCBS

Destination storage
AhsayCBS

OK Cancel Help

Note: For more details on configuration of cloud storage as backup destination, refer to [Appendix A](#) in this guide.

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



Destination

Backup mode
Sequential

Existing storage destinations
AhsayCBS
Host: 10.3.1.8:443

Add

^ v

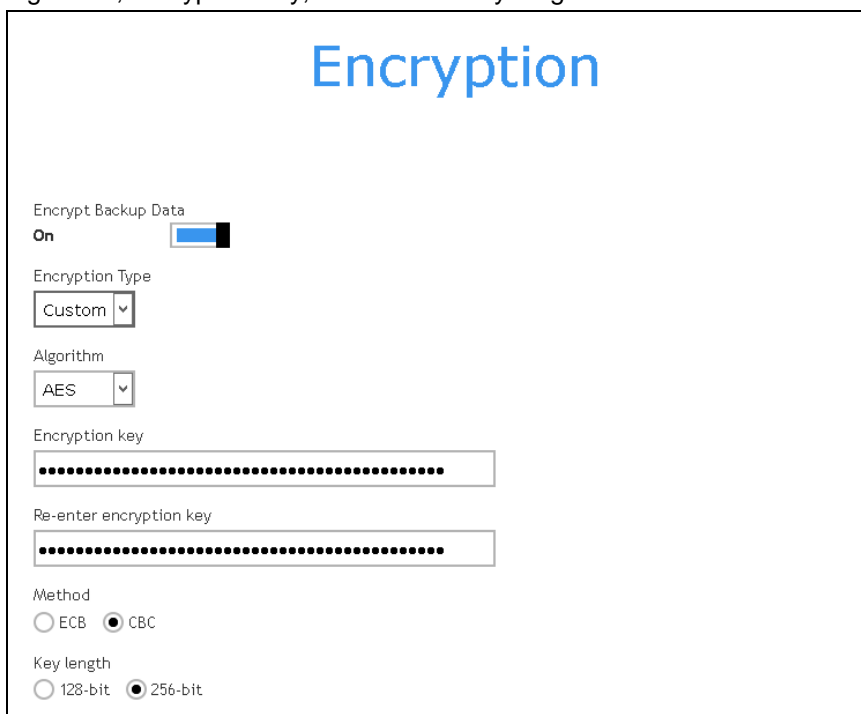
12. In the Encryption window, the default **Encrypt Backup Data** option is enabled with an encryption key preset by the system which provides the most secure protection.



The screenshot shows the 'Encryption' window. At the top, the word 'Encryption' is displayed in a large blue font. Below it, the 'Encrypt Backup Data' section has a toggle switch set to 'On'. The 'Encryption Type' section features a dropdown menu that is currently open, showing three options: 'Default' (highlighted in blue), 'User password', and '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.

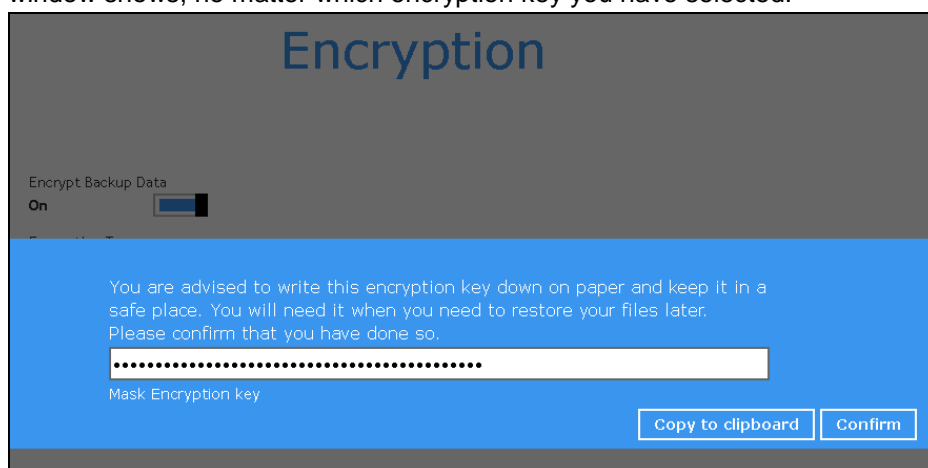


This screenshot shows the 'Encryption' window with the 'Custom' encryption type selected. The 'Encrypt Backup Data' toggle is still 'On'. The 'Encryption Type' dropdown is set to 'Custom'. Below this, the 'Algorithm' dropdown is set to 'AES'. There are two text input fields for the 'Encryption key', both filled with dots. The 'Method' section has two radio buttons: 'ECB' and 'CBC', with 'CBC' being selected. The 'Key length' section has two radio buttons: '128-bit' and '256-bit', with '256-bit' being selected.

Note: For best practice on managing your encryption key, refer to the following Wiki article.
http://wiki.ahsay.com/doku.php?id=public:8015_faq:best_practices_for_managing_encryption_key

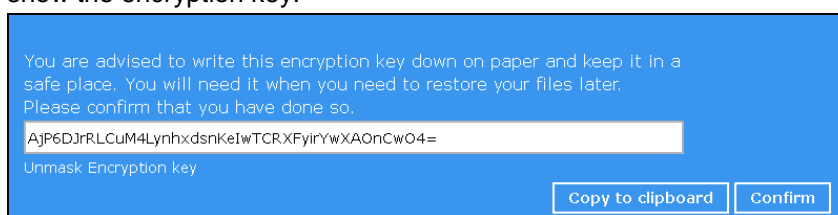
Click **Save** when you are done with the settings.

13. 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.



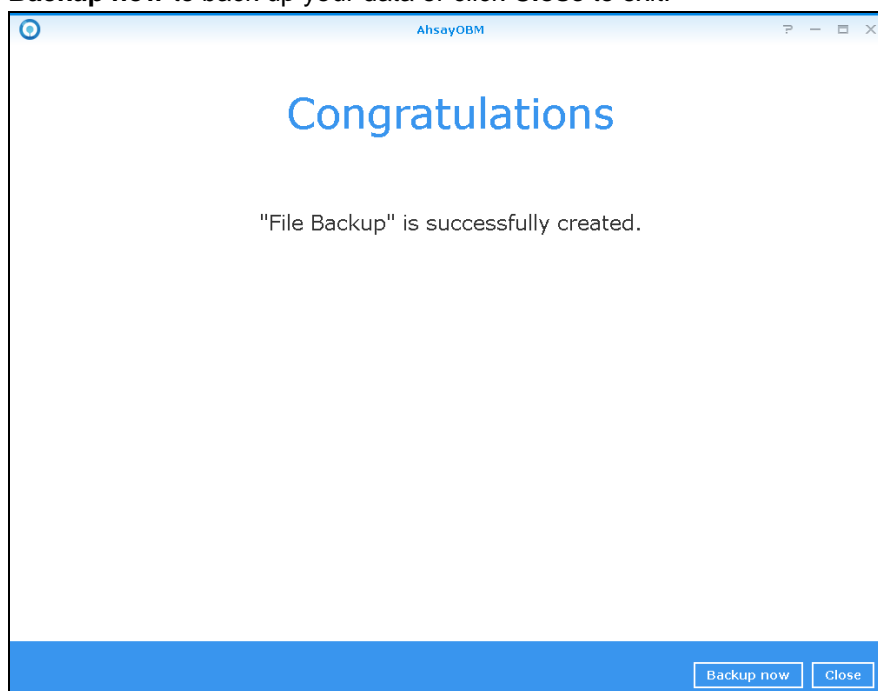
The pop-up window has the following three options to choose from:

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



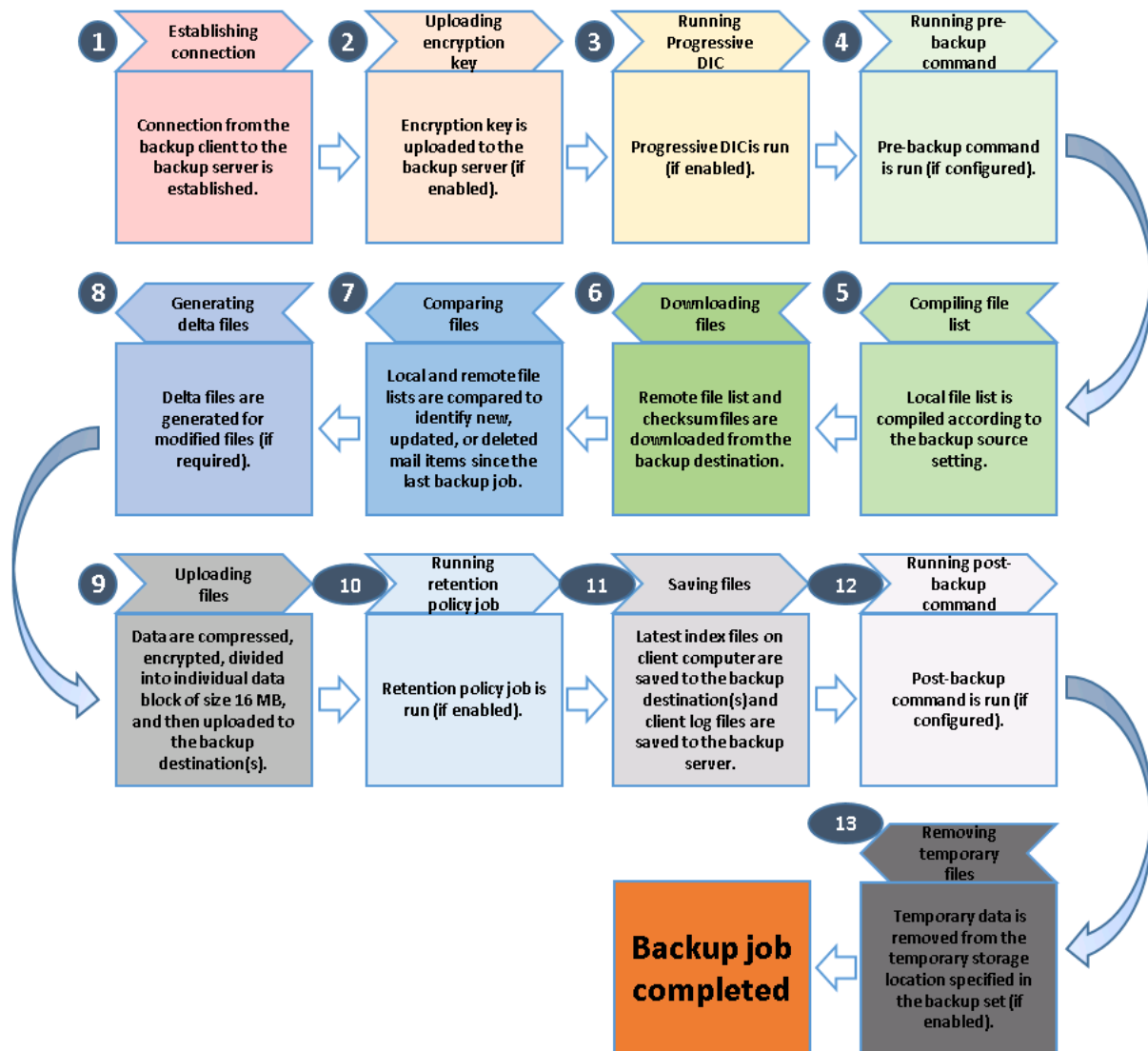
- **Copy to clipboard** – Click to copy the encryption key, then you can paste it in another location of your choice.
- **Confirm** – Click to exit this pop-up window and proceed to the next step.

14. Upon successful creation of the backup set, the following screen will appear. You can click **Backup now** to back up your data or click **Close** to exit.



8 Overview on Backup Process

The following steps are performed during a backup job.



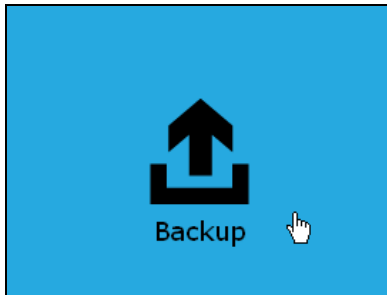
9 Run Backup Jobs

Login to AhsayOBM

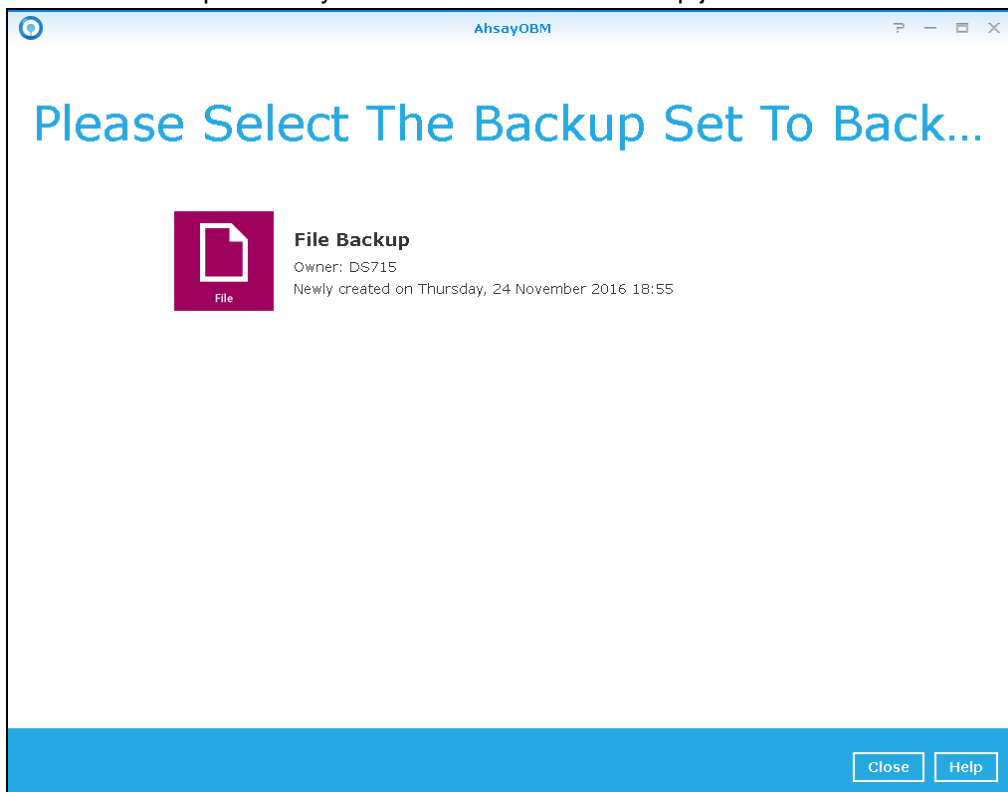
Login to the AhsayOBM application with the instructions provided in [Login to AhsayOBM](#).

Start a Manual Backup

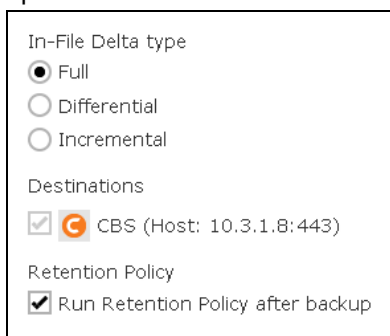
1. Click **Backup** on the main interface of AhsayOBM.



2. Select the backup set that you would like to start a backup job with.



3. When the following options are shown, it is recommended that you tick the checkbox next to **Run Retention Policy after backup** in the Retention Policy section at the bottom. This will help you save hard disk quota in the long run. In the In-File Delta type section, the following three options are available:



In-File Delta type

☒ Full

☐ Differential

☐ Incremental

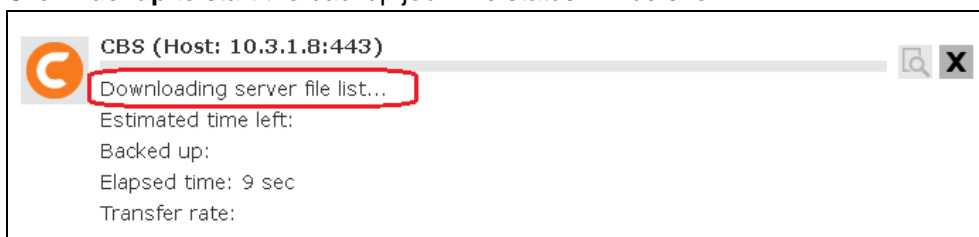
Destinations

☒ CBS (Host: 10.3.1.8:443)

Retention Policy

☒ Run Retention Policy after backup

- **Full** – A full backup captures all the data that you want to protect. When you run a backup job for the first time, AhsayOBM will run a full backup regardless of the in-file delta setting.
 - **Differential** – A differential backup captures only the changes made as compared with the last uploaded full file only (i.e. changes since the last full backup, not since the last differential backup).
 - **Incremental** – An incremental backup captures only the changes made as compared with the last uploaded full or delta file (i.e. changes since the last incremental backup).
4. Click **Backup** to start the backup job. The status will be shown.



CBS (Host: 10.3.1.8:443)

Downloading server file list...

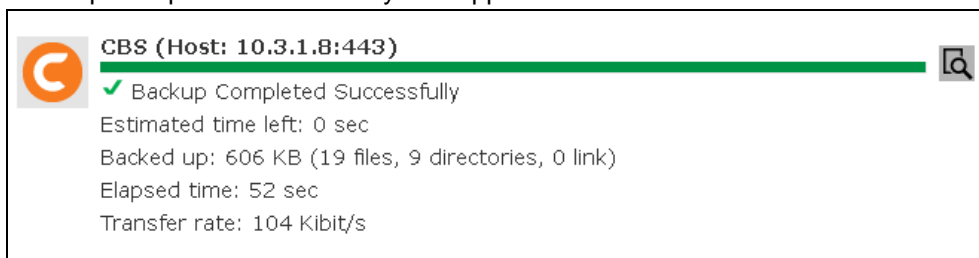
Estimated time left:

Backed up:

Elapsed time: 9 sec

Transfer rate:

5. When the backup is completed, the progress bar will be green in color and the message "Backup Completed Successfully" will appear.



CBS (Host: 10.3.1.8:443)


✓ Backup Completed Successfully


Estimated time left: 0 sec










Backed up: 606 KB (19 files, 9 directories, 0 link)


Elapsed time: 52 sec

Transfer rate: 104 Kibit/s

6. You can click the  **View** icon on the right hand side to check the log. A window will pop up to show the log. Click **Close** to exit the pop-up window.

Show All 

| Type | Log | Time |
|---|---|---------------------|
|  | Start [DSM 5.2-5592 (DS715), AhsayOBM v7.9.0.0] | 25/11/2016 06:12:14 |
|  | Initializing decrypt action... | 25/11/2016 06:12:15 |
|  | Initializing decrypt action... Completed | 25/11/2016 06:12:16 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/Text 3.txt" (Total 2k bytes) | 25/11/2016 06:12:16 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/Text 4.txt" (Total 5k bytes) | 25/11/2016 06:12:16 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/doc 3.docx" (Total 1.06M bytes) | 25/11/2016 06:12:17 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Templates/Template_v0.1.docx" (Total 11k bytes) | 25/11/2016 06:12:18 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Templates/Template_v0.2.docx" (Total 157k bytes) | 25/11/2016 06:12:18 |
|  | Restore Completed Successfully | 25/11/2016 06:12:29 |

Logs per page 50 

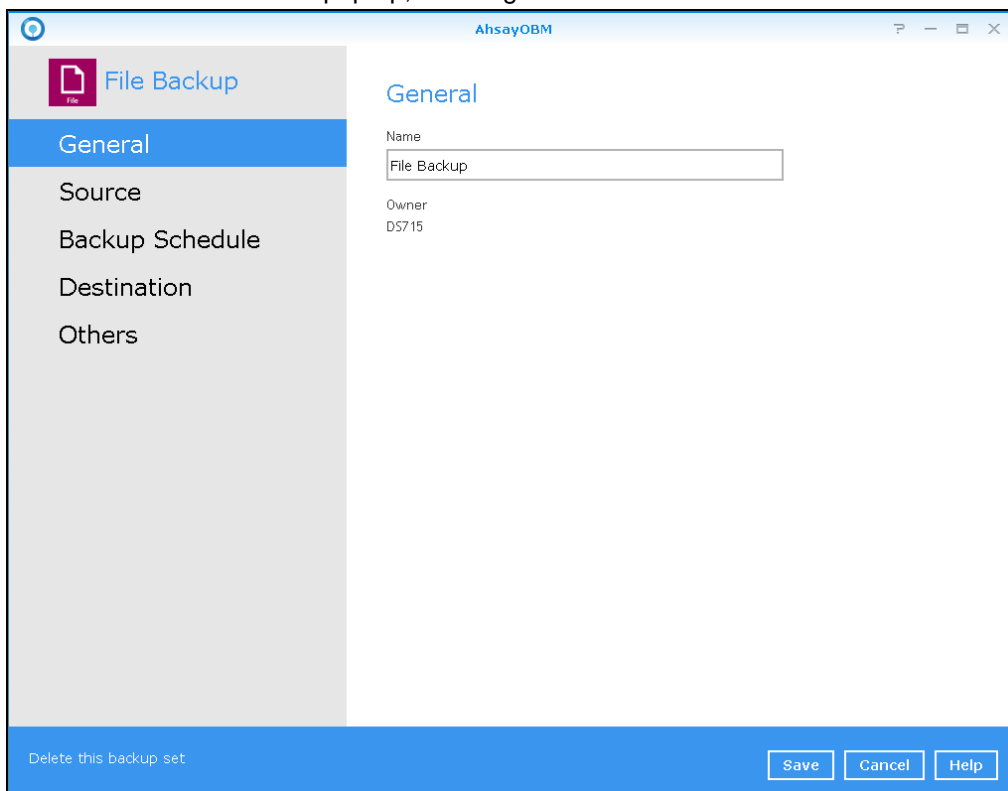
Previous 1 Next

Configure Backup Schedule for Automated Backup

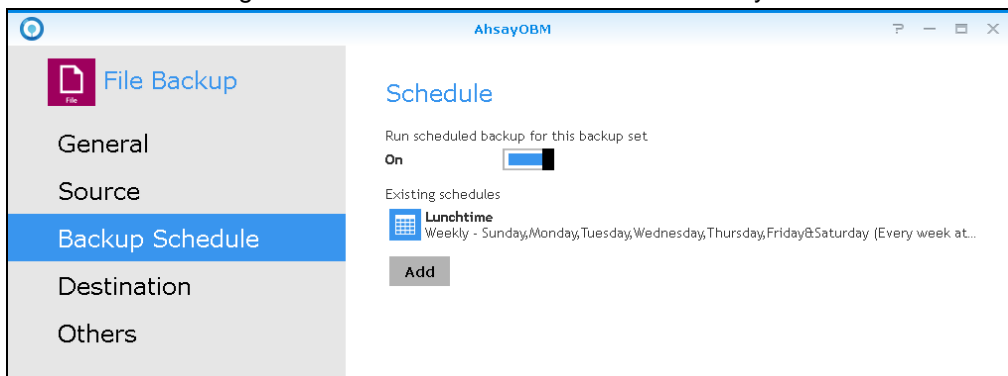
1. Click **Backup Sets** on the AhsayOBM main interface.



2. All backup sets will be listed. Select the backup set that you would like to create a backup schedule for. A screen will pop up, showing the General tab.



3. Go to the **Backup Schedule** tab. In case Run scheduled backup for this backup set is off, switch it **On**. Existing schedules will be listed at the bottom if any.



4. Click **Add** to add a backup schedule. The New Backup Schedule window will appear.

New Backup Schedule

Name
Schedule-2

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

Start backup at
21 : 36

Stop
until full backup completed

☐ Run Retention Policy after backup

OK Cancel Help

5. You can configure your backup schedule settings.

New Backup Schedule

Name
Weekend

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

Start backup at
23 : 59

Stop
until full backup completed

☒ Run Retention Policy after backup

The **Stop** dropdown menu offers two options:

- ⦿ **until full backup completed** – in case you prefer a complete backup

Stop
until full backup completed

- ⦿ **after [how many] hr** – in case you prefer the backup job to stop after a certain number of hours regardless of whether or not the backup job is complete

Stop
after 1 hr


As an example, the two types of backup schedules may look like the following.


Schedule

Run scheduled backup for this backup set

On ☒

Existing schedules

 **Lunchtime**
Weekly - Sunday,Monday,Tuesday,Wednesday,Thursday,Friday&Saturday (Every week at...

 **Weekend**
Weekly - Saturday (Every week at 23:59)

Add

6. Click **Save** to confirm your settings. Then, click **Close** to exit Backup Sets.

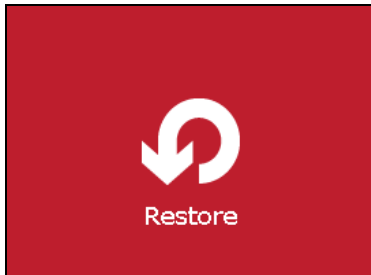
10 Restore Data

Login to AhsayOBM

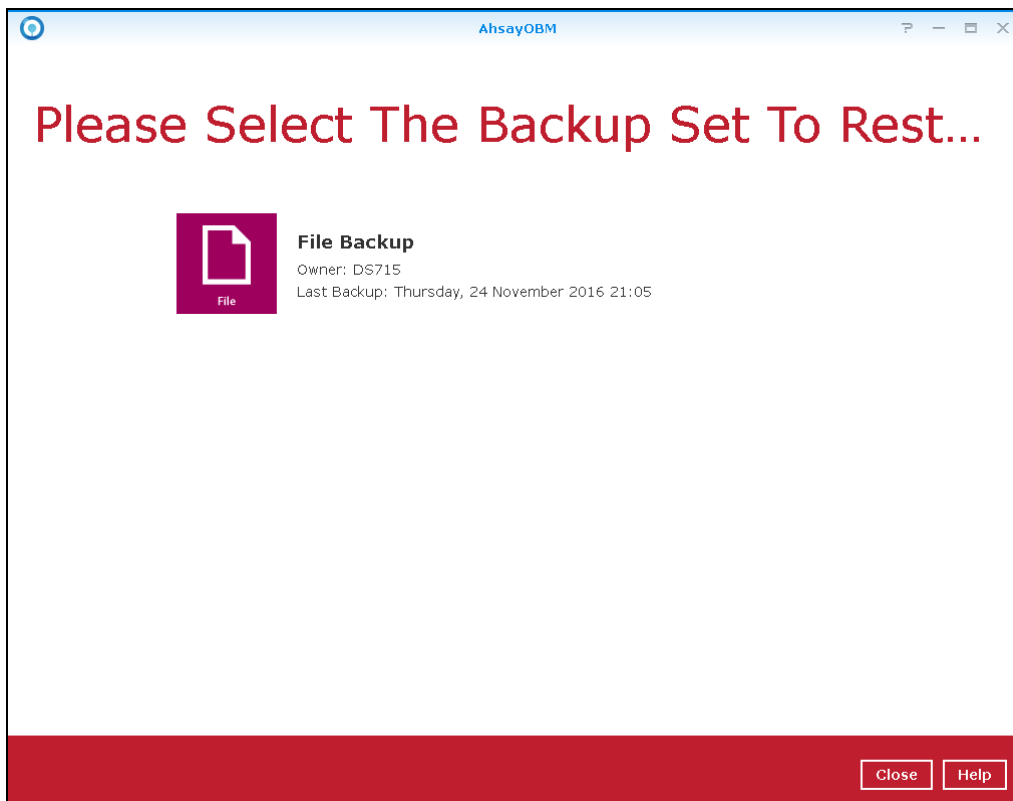
Login to the AhsayOBM application with the instructions provided in [Login to AhsayOBM](#).

Restore Data

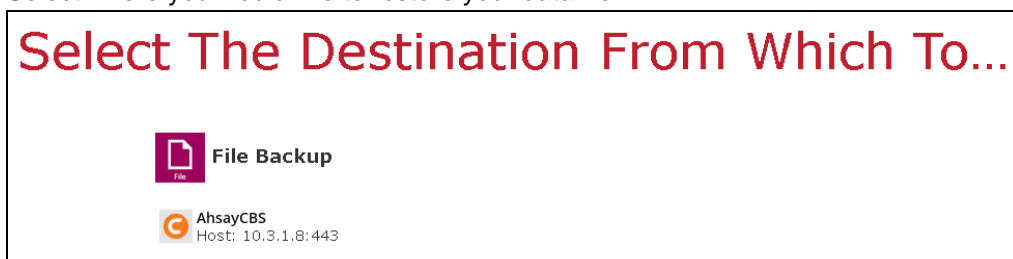
1. Click the **Restore** icon on the main interface of AhsayOBM.



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



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



4. Select to restore files from a specific backup job, or from all files available. Then, select the files or folders that you would like to restore.

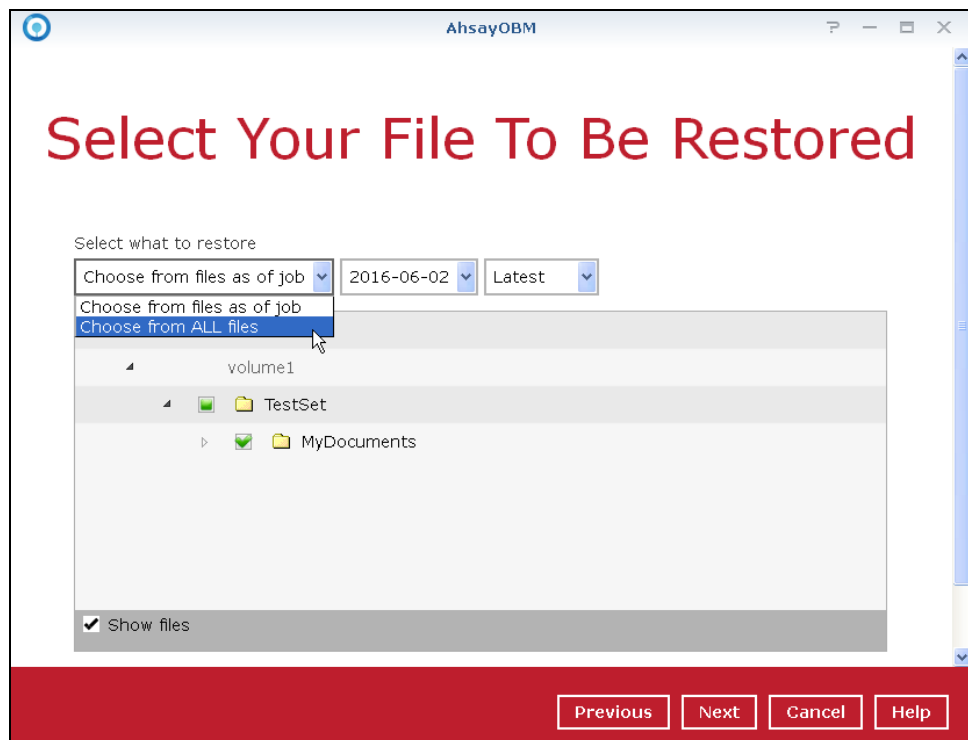
There are two options from the **Select what to restore** drop-down menu:

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

The image shows three instances of the 'Select what to restore' dropdown menu. In each instance, the first dropdown is set to 'Choose from files as of job'. The second dropdown shows a date '24/11/2016' and the third dropdown shows 'Latest'. Red boxes highlight the first dropdown in each instance.

- Choose **from ALL files** – This option allows you to restore all the available backup versions for this backup set. Among all the available backup versions, you can even select only some of the backup versions of a file to restore.

The image shows the 'Select what to restore' dropdown menu with the first dropdown set to 'Choose from ALL files'.



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

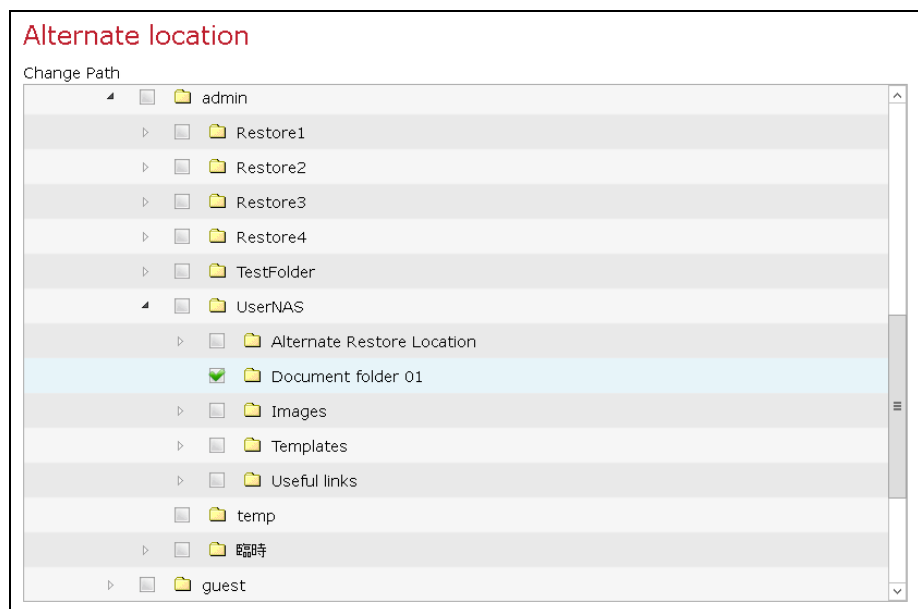
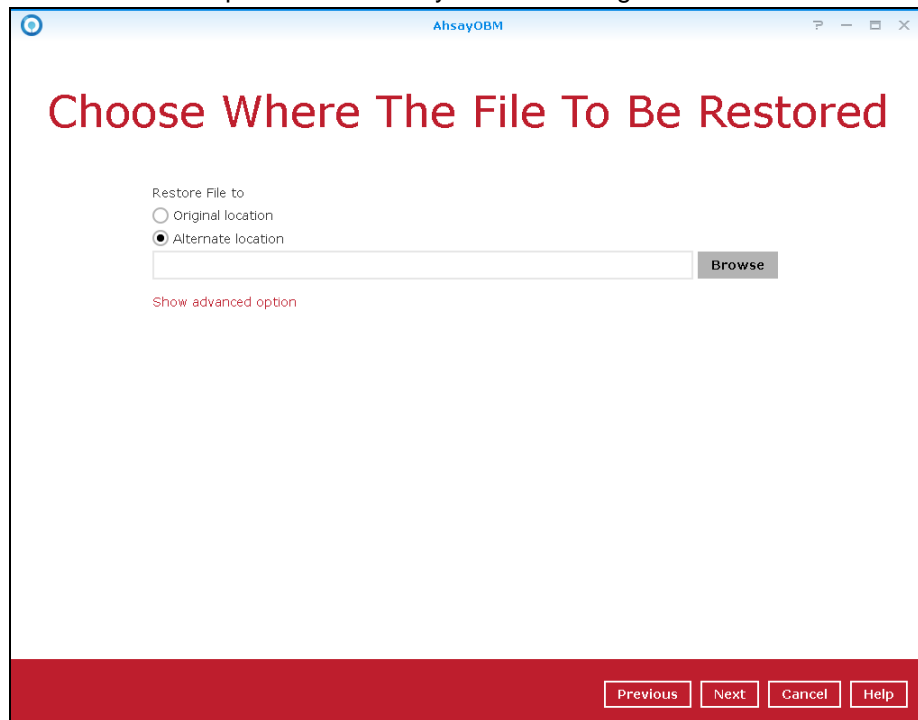
| | | | |
|-------------------------------------|---------------------------|-----------|------------------|
| <input checked="" type="checkbox"/> | File snapshot testing.txt | 147 b... | 08/11/2016 09:05 |
| <input checked="" type="checkbox"/> | File snapshot testing.txt | 147 b... | 08/11/2016 09:05 |
| <input checked="" type="checkbox"/> | File snapshot testing.txt | 113 b... | 07/11/2016 18:54 |
| <input type="checkbox"/> | File snapshot testing.txt | 96 byt... | 07/11/2016 18:52 |
| <input type="checkbox"/> | File snapshot testing.txt | 80 byt... | 07/11/2016 18:51 |
| <input type="checkbox"/> | File snapshot testing.txt | 64 byt... | 07/11/2016 18:39 |

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

| Name | Date modified |
|---|-------------------|
| File snapshot testing | 11/7/2016 6:54 PM |
| File snapshot testing_2016-11-07-18-39-11 | 11/7/2016 6:39 PM |
| File snapshot testing_2016-11-07-18-51-55 | 11/7/2016 6:51 PM |
| File snapshot testing_2016-11-07-18-53-26 | 11/7/2016 6:52 PM |

- Click the **Show files** checkbox to select individual files for restoration. Click **Next** to proceed when you are done with the selections.
- Select to restore the files to their **Original location**, or to an **Alternate location**. Then click **Next** to proceed.
 - Original location** – the backed up data will be restored to the computer running the AhsayOBM under the same directory path as on the machine storing the backup source. For example, if the backup source files are stored under **Users/[User's Name]/Downloads** folder, the data will be restored to **Users/[User's Name]/Downloads** as well on the computer running the AhsayOBM.

- **Alternate location** – you can choose to restore the data to a location of your choice on the computer where AhsayOBM is running.



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

Restore File to

☒ Original location

☐ Alternate location

Show advanced option

Overwrite mode during restoration:

☒ Skip All

☐ Overwrite all

☐ Restore file permissions

☐ Delete extra files

☒ Follow Link

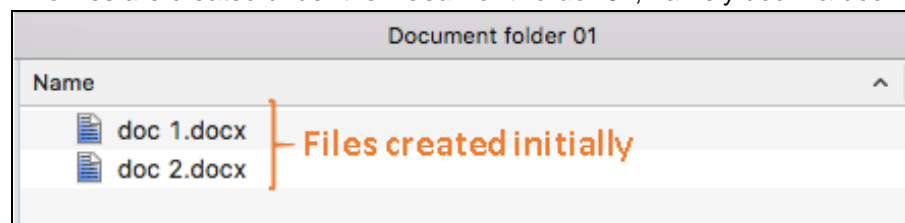
☐ Verify checksum of in-file delta files during restore

Hide advanced option

- **Overwrite mode during restoration**
When there are file name conflicts during restoration, you can choose to skip them all or overwrite all existing files in the restore destination.
- **Restore file permissions**
Restore file permissions is disabled by default. When you perform a file restore on a shared computer, it is recommended that you enable Restore file permissions by ticking the checkbox so that the files restored will not be fully accessible to everyone using the shared computer.
- **Delete extra files**
Synchronize the selected restore source with the restore destination. By enabling this option, the restore process will attempt to synchronize the selected restore source with the restore destination, making sure the data in the restore destination is exactly the same as the restore source. Any data created after backup will be treated as “extra files” and will be deleted from the restore source if this feature is enabled.

Example:

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



- ii) A backup is performed for folder **Document folder 01**.

- iii) Two new files are created, namely doc 3 & doc 4.

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

- iv) A restore is performed for the **Document folder 01**, with **Delete extra files** option enabled.
- v) Since doc 3 & doc 4 have never been backed up, therefore they will be deleted from **Document folder 01**, leaving only the two files that have been backed up.

| Document folder 01 | |
|--------------------|----------------------------|
| Name | |
| doc 1.docx | Files remain after restore |
| doc 2.docx | |

WARNING

Please exercise extra caution when enabling this feature. Consider what data in the restore source has not been backed up and what impact it would cause if those data are deleted.

Prior to the data restore and synchronization, a warning message will show. Only by clicking **Yes** will the “extra file” be deleted. You can click **Apply to all** to confirm deleting all the “extra files” at one time.

Follow Link (Enabled by default)

When this option is enabled, not only the symbolic link or junction point will be restored, the directories and files that the symbolic link or junction point links to will also be restored.

The table below summarizes the behaviors when a restore is performed with different settings.

| Follow Link | Restore to | Behavior |
|-------------|--------------------|--|
| Enabled | Original location | Symbolic link or junction point is restored to the original backup location. Target directories or files are also restored to the original backup location. |
| | Alternate location | Symbolic link or junction point is restored to the location specified. Target directories or files are also restored to the alternate location specified. |

| | | |
|-----------------|---------------------------|---|
| Disabled | Original location | Symbolic link or junction point is restored to the original backup location. Target directories or files are NOT restored to the original backup location. |
| | Alternate location | Symbolic link or junction point is restored to the location specified. Target directories or files are NOT restored to the alternate location specified. |

⦿ **Verify checksum of in-file delta files during restore**

Verify checksum of in-file delta files during restore is disabled by default. You can enable the feature by ticking the checkbox so that the checksum of in-file delta files will be verified. As the feature will make the restore process time longer, it is recommended to enable the feature only if you want to verify whether the merged files were correct

8. Click **Next** to proceed when you are done with the settings.
9. Select the temporary directory for storing temporary files, such as delta files when they are being merged.

Temporary Directory

Temporary directory for storing restore files

Change

10. Click **Restore** to start the restore. The status will be shown.

CBS (Host: 10.3.1.8:443)
🔍 ✕















Pending
 Estimated time left:
 Restored:
 Elapsed time:
 Transfer rate:

11. When the restore is completed, the progress bar will be green in color and the message **Restore Completed Successfully** will appear.

CBS (Host: 10.3.1.8:443)
🔍

✔ Restore Completed Successfully
 Estimated time left: 0 sec
 Restored: 1 MB (5 files, 0 directory)
 Elapsed time: 21 sec
 Transfer rate: 388 Kibit/s

You can click the **View** icon on the right hand side to check the log. A window will pop up to show the log. Click **Close** to exit the pop-up window.

| | | Show All ▼ |
|---|--|--------------------------------------|
| Type | Log | Time |
|  | Start [DSM 5.2-5592 (DS715), AhsayOBM v7.9.0.0] | 25/11/2016 05:21:44 |
|  | Initializing decrypt action... | 25/11/2016 05:21:44 |
|  | Initializing decrypt action... Completed | 25/11/2016 05:21:45 |
|  | Creating new directory... "/volume1/homes/admin/UserNAS/Document folder 01/volume1" | 25/11/2016 05:21:45 |
|  | Creating new directory... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes" | 25/11/2016 05:21:45 |
|  | Creating new directory... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin" | 25/11/2016 05:21:45 |
|  | Creating new directory... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS" | 25/11/2016 05:21:45 |
|  | Creating new directory... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Document folder 01" | 25/11/2016 05:21:45 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Document folder 01/Text 3.txt" (Total 2k bytes) | 25/11/2016 05:21:45 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Document folder 01/Text 4.txt" (Total 5k bytes) | 25/11/2016 05:21:45 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Document folder 01/doc 3.docx" (Total 1.06M bytes) | 25/11/2016 05:21:46 |
|  | Creating new directory... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Templates" | 25/11/2016 05:21:47 |
|  | Downloading... "/volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Templates/Template_v0.1.docx" (Total 11k bytes) | 25/11/2016 05:21:47 |
|  | Restoring File Permission:... /volume1/homes/admin/UserNAS/Document folder 01/volume1/homes/admin/UserNAS/Document folder 01/Text 4.txt | 25/11/2016 05:21:48 |

12. In the Restore window, click **Close** to close the Restore window.
13. To exit AhsayOBM, click the "x" on the top right corner. A message will appear to ask for your confirmation. Click **Yes** to close the application. If you wish to use AhsayOBM again, you will have to launch it again.

11 Contact Ahsay

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:

<http://wiki.ahsay.com/doku.php?id=public:home>

Documentation

Documentations for all Ahsay products are available at:

https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documentation_guides

You can send us suggestions for improvements or report on issues in the documentation, by contacting us at:

<https://www.ahsay.com/jsp/en/contact/kbQuestion.jsp>

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

Appendix

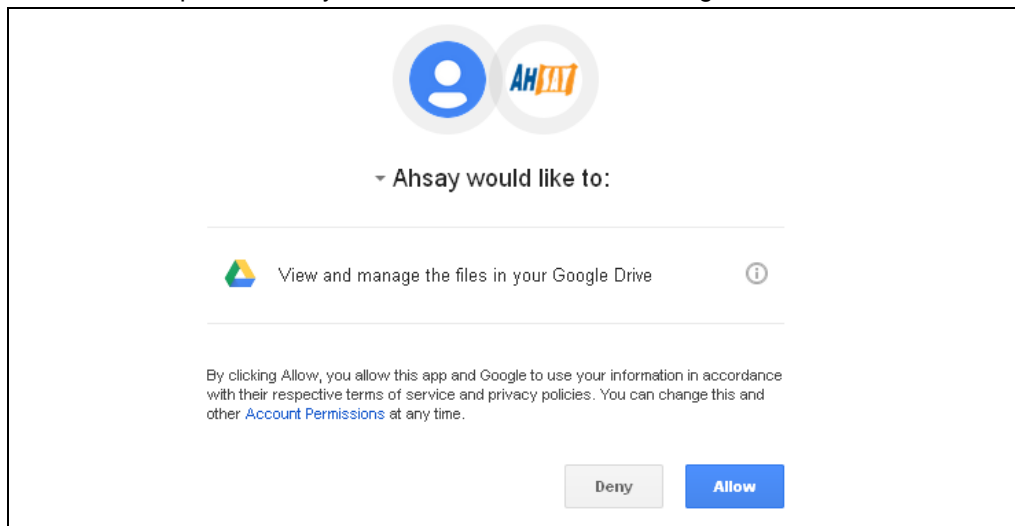
Cloud Storage as Backup Destination

For most cloud storage providers (e.g. Dropbox, Google Drive, etc.), you need to enable access of AhsayOBM on your cloud destination. Click **OK / Test**, you will be prompted to login to the corresponding cloud service.

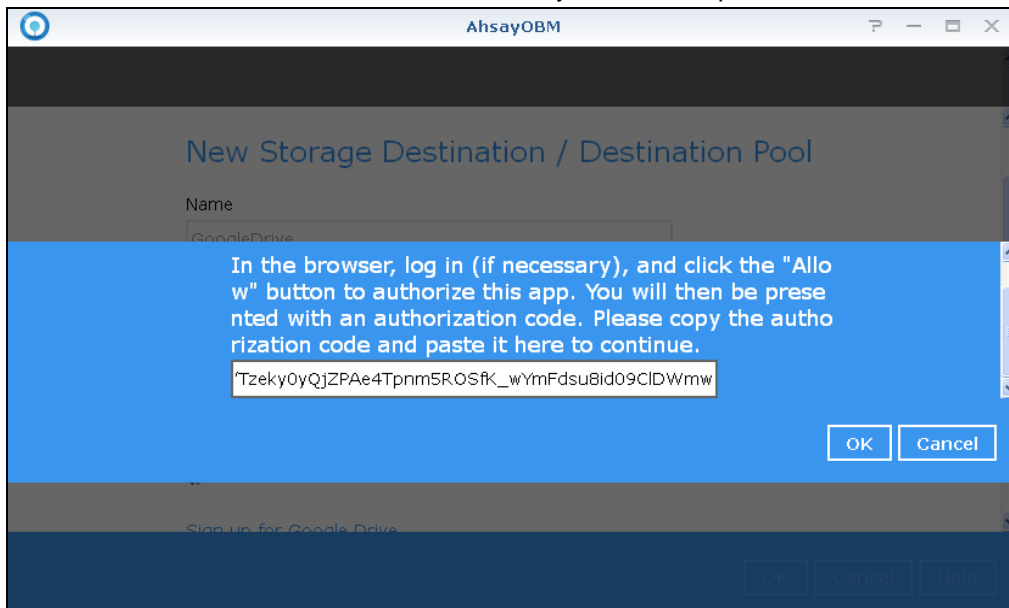
Important

The authentication request will be opened in a new tab / window on the browser, ensure that the pop-up tab / window is not blocked.


1. Click **Allow** to permit AhsayOBM to access the cloud storage.



5. Enter the authentication code returned in AhsayOBM to complete the destination setup.



Note: A backup destination can be set to a supported cloud storage, backup server, FTP / SFTP server, network storage, or local / removable drive on your computer.



Multiple backup destinations can be configured for a single backup set. In fact it is recommended for you to set up at least 2 backup destinations for your backup set.

For more details on backup destination, for example which cloud service providers are supported, destination type, or limitation, you can refer to the following Wiki article:
http://wiki.ahsay.com/doku.php?id=public:8002_faq:faq_on_backup_destination

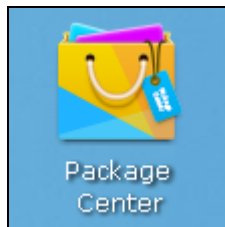
Uninstall AhsayOBM

Refer to the following steps to uninstall AhsayOBM.

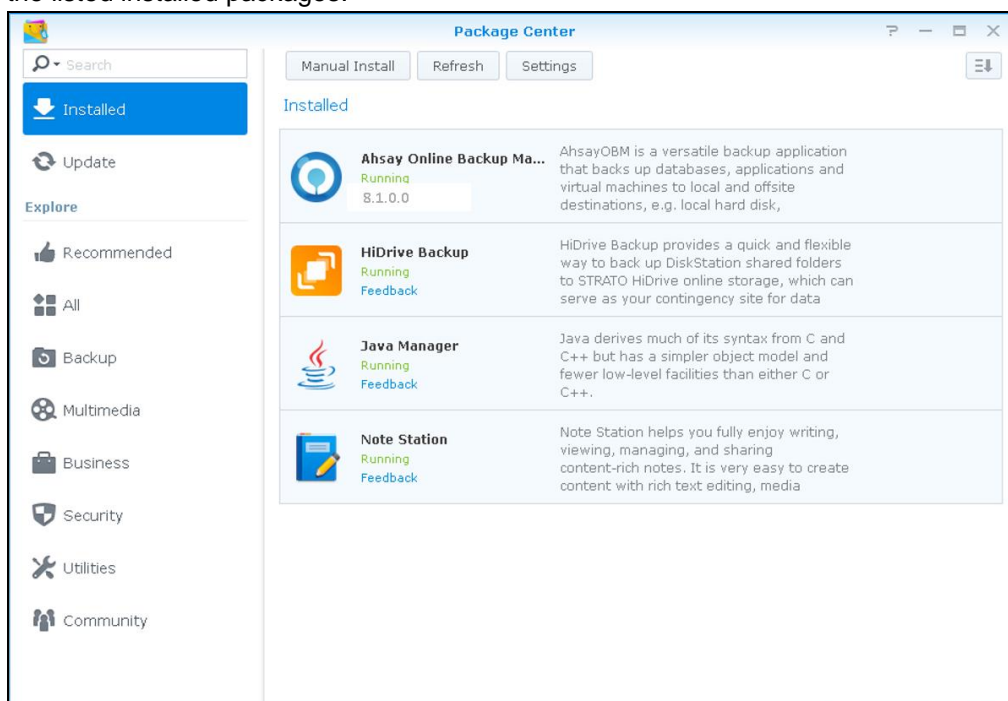
1. Sign into DiskStation Manager (DSM) with the admin account. In a web browser, enter the Synology NAS device IP address, followed by :5000
https://nas_hostname:5000

Note: Refer to the following Synology Wiki article for information on how to sign into DSM:
https://www.synology.com/en-us/knowledgebase/DSM/help/DSM/MainMenu/get_started

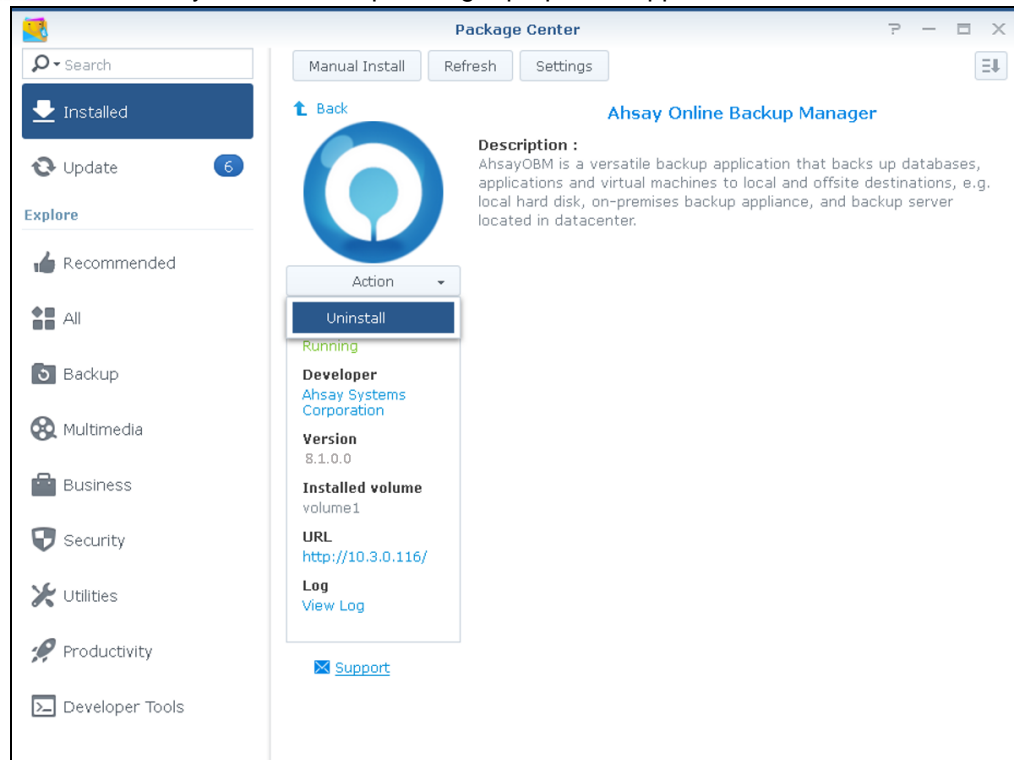
2. Double-click the Package Center icon on the desktop.



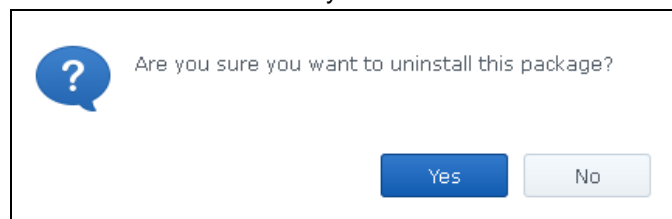
3. When the Package Center window appears, select **Ahsay Online Backup Manager** from the listed installed packages.



4. When the Ahsay Online Backup Manager properties appears, select **Action > Uninstall**.

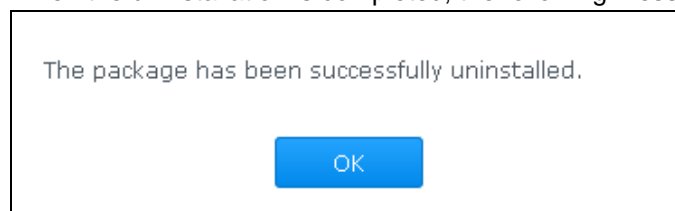


5. Click **Yes** to uninstall AhsayOBM.



Note: If you select yes, both AhsayOBM program files and user settings will be removed from the NAS drive.

6. When the uninstallation is completed, the following message will appear.



Note: Ahsay Online Backup Manager will no longer appear in the list of Installed packages. The uninstaller will also remove the .obm folder and all binary files from the following paths respectively:

/volume1/@appstore/AhsayOBM/.obm
/volume1/@appstore/AhsayOBM/