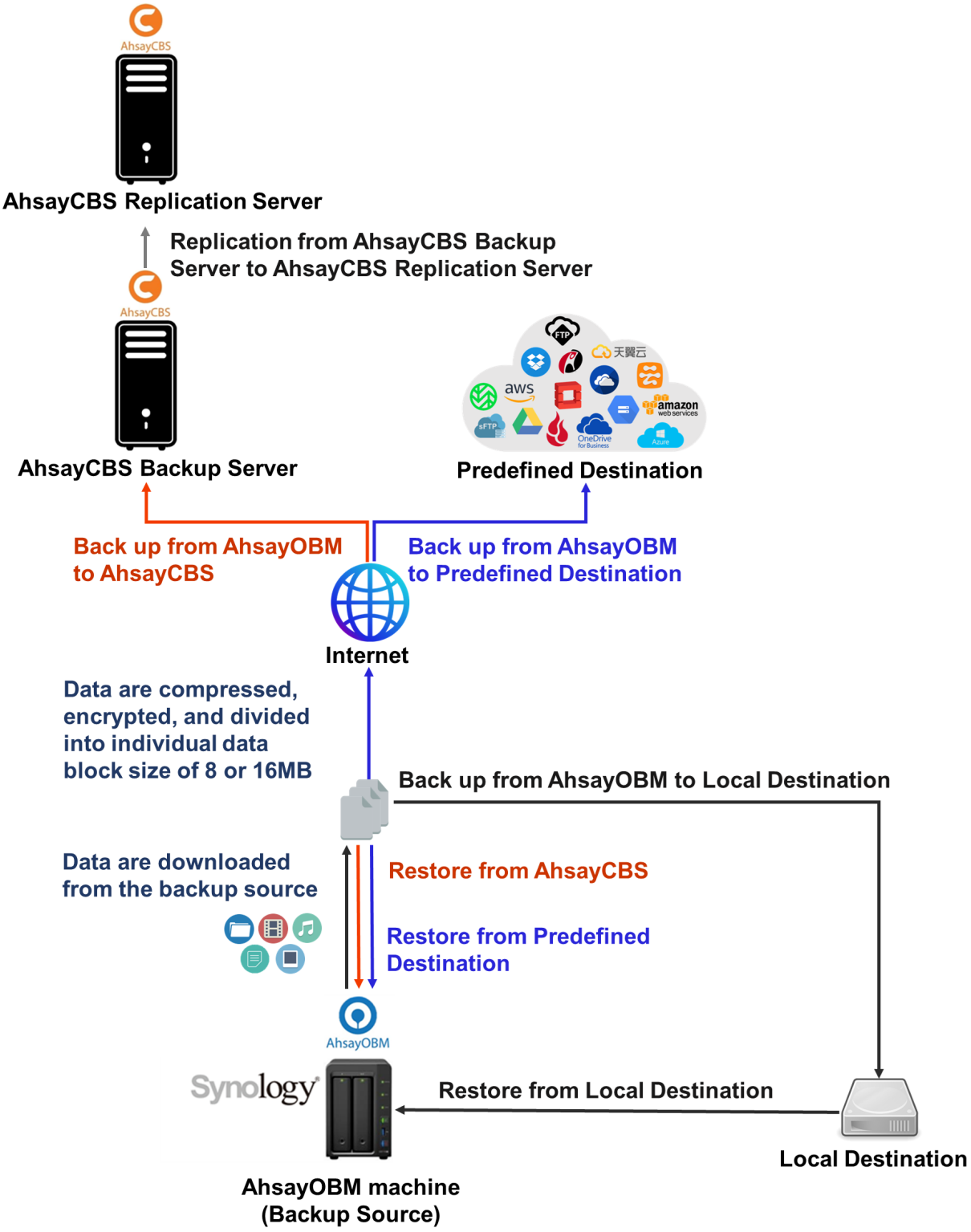
AhsayOBM for Synology NAS

For Synology NAS devices, we have dedicated AhsayOBM agents for directly installation on the NAS devices to backup files with the NAS. The special backup agent provides a comprehensive backup solution for backing up file(s) and folder(s) on Synology NAS machine to 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 on Synology and AhsayCBS.



Requirements

Hardware Requirements

For the list of Synology NAS models, DiskStation Manager (DSM) version and hardware requirement, refer to: Ahsay Hardware Requirement List for AhsayOBM on Synology NAS

Software Requirements

For the list of compatible operating systems, refer to: Ahsay Software Compatibility List (SCL)

For the list of compatible operating system for OpenDirect and Granular Restore, refer to: Ahsay Software Compatibility List (SCL) for Granular and OpenDirect Restore

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.

Java Requirement

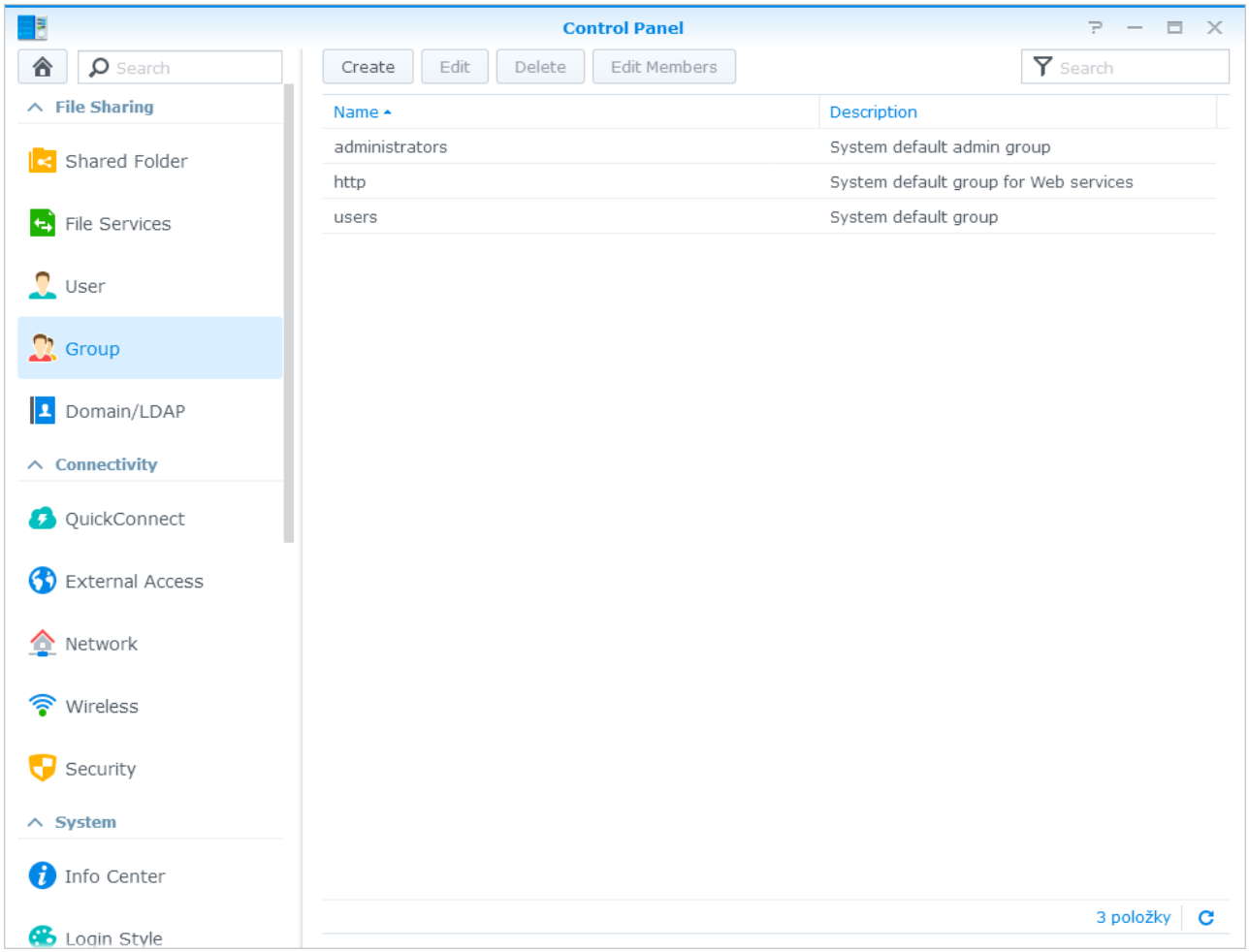
In v9 the Oracle Java JDK files are already included and deployed as part of the AhsayOBM installation.

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.

Download AhsayOBM from AhsayCBS Web Console onto Synology NAS

Step 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.

Step 2

In the Synology section under the AhsayOBM tab of the download page, download the AhsayOBM SPK online installer of the DSM version you are using.

Installation

Step 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

> 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

Step 2

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

Step 3

When the Package Center window appears, select Manual Install.

Step 4

When the Manual Install window appears, click Browse to select the AhsayOBM SPK file which you have downloaded (e.g. obm-synology-443-backup service provider IP address-https-0O.spk). Then, click Next to proceed.

Step 5

Click Agree in the confirmation message to proceed.

Step 6

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

Step 7

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

Step 8

Review the information on screen. Then, click Done to start the installation of AhsayOBM.

Step 9

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

Step 10

Click the Main Menu icon on the top left corner of your desktop.

Step 11

You can click the AhsayOBM icon to launch the application.

Step 12

Revert the Trust Level to the previous setting in Package Center afterward.

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.

```
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
```

Scheduler service is running as shown above (starting from “admin 20925...”).

Stop the Scheduler Service Manually

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
```

Start the Scheduler Service Manually

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

```
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
```

Scheduler service is running.

Demo

See how to restore backed up files to Synology NAS:

Documentation

- Quick Start Guide of AhsayOBM for Synology

FAQs

- Frequently Asked Questions about AhsayOBM installation on Synology NAS devices
- How to install and configure AhsayOBM on a Synology NAS device?
- How to restore data with AhsayOBM installation on Synology NAS device?

Issues

- “Invalid license” error is shown when logging into AhsayOBM on a Synology NAS device

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