



# Ahsay Online Backup Manager v7 Quick Start Guide for Linux (GUI)

Ahsay Systems Corporation Limited

31 July 2019

# Copyright Notice

© 2019 Ahsay Systems Corporation Limited. All rights reserved.

The use and copying of this product is subject to a license agreement. Any other use is prohibited. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language in any form by any means without prior written consent of Ahsay Systems Corporation Limited. Information in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. Ahsay Systems Corporation Limited does not warrant that this document is error free. If you find any errors in this document, please report to Ahsay Systems Corporation Limited in writing.

This product includes software developed by the Apache Software Foundation (<http://www.apache.org>).

## Trademarks

Ahsay, Ahsay Cloud Backup Suite, Ahsay Online Backup Suite, Ahsay Offsite Backup Server, Ahsay Online Backup Manager, Ahsay A-Click Backup, Ahsay Replication Server, Ahsay BackupBox Firmware, Ahsay Universal Backup System and Ahsay NAS Client Utility are trademarks of Ahsay Systems Corporation Limited.

Amazon S3 is registered trademark of Amazon Web Services, Inc. or its affiliates.

Apple and Mac OS X are registered trademarks of Apple Computer, Inc.

Dropbox is registered trademark of Dropbox Inc.

Google Cloud Storage and Google Drive are registered trademarks of Google Inc.

Lotus, Domino and Notes are registered trademark of IBM Corporation.

Microsoft, Windows, Microsoft Exchange Server, Microsoft SQL Server, Microsoft Hyper-V, Microsoft Azure, One Drive and One Drive for Business are registered trademarks of Microsoft Corporation.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Oracle, Oracle 10g, Oracle 11g and MySQL are registered trademarks of Oracle Corporation.

Rackspace and OpenStack are registered trademarks of Rackspace US, Inc.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo and JBoss are registered trademarks of Red Hat, Inc. [www.redhat.com](http://www.redhat.com) in the U.S. and other countries. Linux is a registered trademark of Linus Torvalds.

ShadowProtect is registered trademark of StorageCraft Technology Corporation.

VMware, ESX, ESXi and vCenter are registered trademarks of VMware, Inc.

All other product names are registered trademarks of their respective owners.

## Disclaimer

Ahsay Systems Corporation Limited will not have or accept any liability, obligation or responsibility whatsoever for any loss, destruction or damage (including without limitation consequential loss, destruction or damage) however arising from or in respect of any use or misuse of reliance on this document. By reading and following the instructions in this document, you agree to accept unconditionally the terms of this Disclaimer and as they may be revised and/or amended from time to time by Ahsay Systems Corporation Limited without prior notice to you.

## Revision History

<b>Date</b>	<b>Descriptions</b>	<b>Type of modification</b>
23 May 2018	Updated Ch. 1.3	Modification
23 July 2018	Added Online and Offline installation for Ubuntu for Ch. 3	New
31 July 2019	Added Chapter 5 AhsayOBM Overview	New

# Table of Contents

<b>1</b>	<b>System Requirements</b> .....	<b>1</b>
	Supported Platforms .....	1
	GUI Desktop Environment .....	1
	Linux Packages.....	1
<b>2</b>	<b>Getting Started</b> .....	<b>2</b>
<b>3</b>	<b>Download and Install AhsayOBM</b> .....	<b>3</b>
	Online Installation.....	4
	Offline Installation.....	19
	Check Version of AhsayOBM .....	26
<b>4</b>	<b>Starting AhsayOBM</b> .....	<b>27</b>
	Login to AhsayOBM .....	27
<b>5</b>	<b>AhsayOBM Overview</b> .....	<b>30</b>
	Profile .....	31
	General .....	31
	Contacts .....	32
	Time Zone.....	34
	Encryption Recovery.....	35
	Password .....	36
	Language .....	38
	Information .....	38
	Backup .....	38
	Backup Sets .....	39
	Backup Set Settings.....	39
	General .....	40
	Source .....	41
	Backup Schedule.....	41
	Destination.....	42
	In-File Delta .....	43
	Retention Policy.....	47
	Command Line Tool .....	50
	Bandwidth Control .....	53
	Others .....	55
	Temporary Directory.....	56
	Follow Link.....	56
	File Permissions .....	57
	OpenDirect .....	57
	Compressions.....	58

Encryption.....	58
Report.....	59
Backup .....	59
Restore .....	63
Usage.....	67
Restore.....	68
Settings .....	68
Utilities.....	70
Data Integrity Check .....	70
Space Freeing Up .....	76
Delete Backup Data .....	80
Decrypt Backup Data .....	86
Online Help .....	87
<b>6 Creating a File Backup Set.....</b>	<b>88</b>
<b>7 Overview on Backup Process.....</b>	<b>95</b>
<b>8 Running Backup Jobs .....</b>	<b>96</b>
Login to AhsayOBM .....	96
Start a Manual Backup.....	96
Configure Backup Schedule for Automated Backup.....	98
<b>9 Restoring Data.....</b>	<b>99</b>
Login to AhsayOBM .....	99
Restore Data .....	99
<b>10 Contacting Ahsay.....</b>	<b>108</b>
Technical Assistance .....	108
Documentation .....	108
<b>Appendix.....</b>	<b>109</b>
Uninstall AhsayOBM (rpm).....	109
Uninstall AhsayOBM (sh).....	112
Uninstall AhsayOBM (deb).....	114
Handling of Non-regular Files .....	116

# 1 System Requirements

## Supported Platforms

Refer to the following article for the list of supported operating systems:

[FAQ: Ahsay Software Compatibility List \(SCL\) for version 7.3 or above](#)

## GUI Desktop Environment

The Linux machine must be installed with a GUI desktop environment, i.e. GNOME, KDE, Cinnamon etc.

## Linux Packages

The following packages have to be present on the Linux machine in order for AhsayOBM version 7 to be installed.

- curl <https://curl.haxx.se>

The 'curl' command is used by both the AhsayOBM sh script and rpm installer to download components from AhsayCBS server during the installation process.

- tar <https://www.gnu.org/software/tar>

The 'tar' command is used by both the AhsayOBM sh script, gz, and rpm installer to uncompress and extract installation files or components downloaded from the AhsayCBS backup server onto the Linux machine.

- rpm <http://rpm.org>

The 'rpm' package must be installed to use the AhsayOBM rpm installation method.

- dpkg <https://packages.ubuntu.com/trusty/dpkg>

The 'dpkg' package must be installed to use the AhsayOBM deb installation method on Ubuntu LTS Linux platforms supported from version 7.15.0.0 or above.

- psmisc <http://psmisc.sourceforge.net/>

The 'psmisc' package which contains the 'fuser' components must be installed for AhsayOBM on CentOS / Red Hat Enterprise Linux (RHEL), for the auto update agent (AUA) process to work properly.

## 2 Getting Started

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 Linux machine

### Launch AhsayOBM

Launch and log in to AhsayOBM

### Create File Backup Set

Create backup set according to your preferences

### Run Backup Jobs

Run the backup job to back up data

### Restore Data

Restore backed up data to your system

### 3 Download and Install AhsayOBM

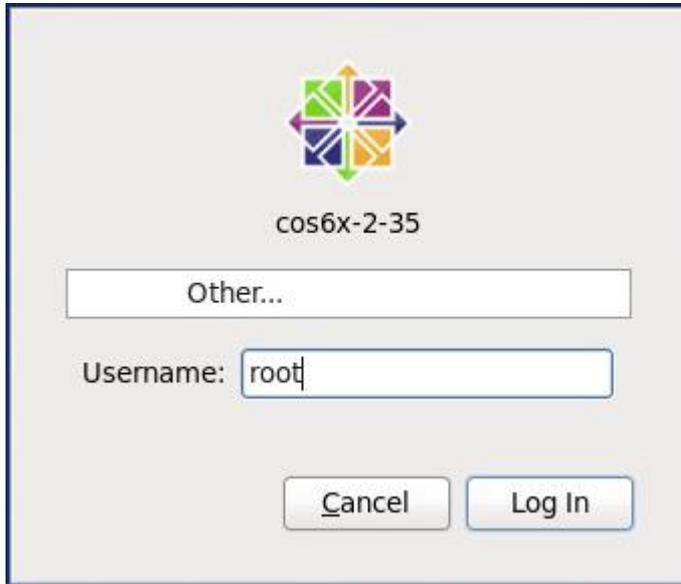
From v7.15.0.0 or above Ubuntu Linux LTS distributions are officially supported, AhsayOBM can be installed from a \*.deb package using dpkg for online installation or from \*.sh package for both online and offline installation. There are two installation modes of AhsayOBM, online installation and offline installation. Below is the table of comparison between online installation and offline installation.

	Online Installation	Offline Installation
<b>Version Supported</b>	➤ From v7.3.2.0 onwards.	➤ From v7.15.0.0 onwards.
<b>Installation Time</b>	<ul style="list-style-type: none"> <li>➤ Takes more time as it needs to download the binary and component files (80MB to 132MB depending on operating system) each time the installation is run.</li> <li>➤ Online installer size is 6KB to 3.5MB depending on operating system as it contains only the initial installation package files.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Takes less time as all the necessary binary and component files are already available in the offline installer and offline installer can be downloaded once but reused many times.</li> <li>➤ Offline installer size is 80MB to 132MB depending on operating system as it contains all the necessary binary and component files.</li> </ul>
<b>Deployments</b>	<ul style="list-style-type: none"> <li>➤ Suitable for single or small amount of device installations.</li> <li>➤ Suitable for sites with fast and stable internet connection as internet connection is needed each time when an installation is run.</li> <li>➤ A slow internet connection will result in longer installation time and interrupted or unstable internet connection may lead to unsuccessful installation.</li> <li>➤ Ensures the latest version of the product is installed.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Suitable for multiple or mass device installations.</li> <li>➤ Suitable for client sites with metered internet connections as once the offline installer is downloaded, internet connection is not needed each time when an installation is run.</li> <li>➤ May need to update the product version after installation if an older offline installer is used.</li> </ul>

## Online Installation

### 3.1.1 rpm

1. Login as root on Linux GUI. (Alternatively, you can remotely invoke the GUI of another Linux machine using SSH client.)



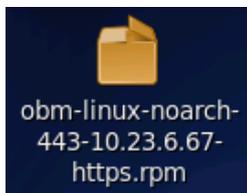
2. To download the AhsayOBM rpm installation package file from your backup service provider's website:



3. Go to the download page and right click on **Download (rpm) (Online)** button to download the AhsayOBM installer.



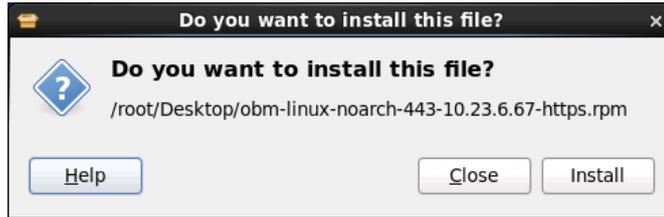
4. Double-click to launch the installation package you have downloaded.



5. When the following warning message appears, click **Continue Anyway** to proceed.



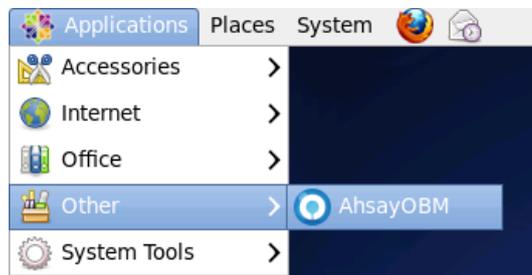
6. Click **Install** to start the installation.



7. Upon successful installation, the **AhsayOBM** icon will be added to the desktop as a shortcut.



Alternatively, you can also click the **Applications** menu bar and then select **Other** to see the **AhsayOBM** option.



### 3.1.2 Linux sh

1. Login as root on Linux GUI. (Alternatively, you can remotely invoke the GUI of another Linux machine using SSH client.)



2. Double-click the **Terminal** icon to launch the application.



3. Create a new directory `/usr/local/obm` for the installation of AhsayOBM. Then, go to the new directory.

```
# mkdir -p /usr/local/obm
# cd /usr/local/obm
```

4. To download the AhsayOBM sh script from your backup service provider's website:



5. Go to the download page and right click on **Download (sh) (Online)** button to download the AhsayOBM installer.



6. Execute the AhsayOBM install script.

```
# sh obm-nix-443-10.23.6.67-https.sh
```

7. The installation is completed when **Done** shows at the end of the script.

```
# sh obm-nix-443-10.23.6.67-https.sh
Log Time: Wed Nov 16 11:12:19 HKT 2016
Downloading package jre-std-linux-amd64.tar.gz...
  % Total      % Received % Xferd  Average Speed   Time    Time
Time  Current
                               Dload  Upload  Total
Spent   Left  Speed
```

```

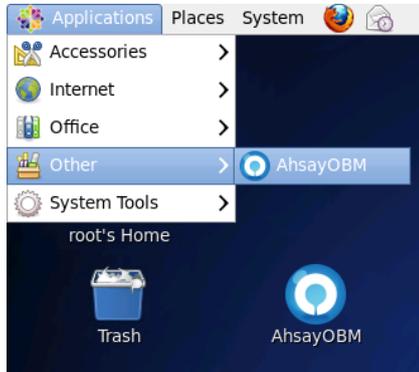
100 43.7M 100 43.7M 0 0 14.8M 0 0:00:02
0:00:02 --:--:-- 16.7M
Download completed
Downloading package app-common.tar.gz...
  % Total    % Received % Xferd  Average Speed   Time    Time
Time  Current
                                Dload  Upload  Total
Spent    Left  Speed
100 26.8M 100 26.8M 0 0 15.8M 0 0:00:01
0:00:01 --:--:-- 16.4M
Download completed
Downloading package app-native-nix-x64.tar.gz...
  % Total    % Received % Xferd  Average Speed   Time    Time
Time  Current
                                Dload  Upload  Total
Spent    Left  Speed
100 521k 100 521k 0 0 4163k 0 --:--:-- --:--
:-- --:--:-- 7662k
.
.
.
No old application found, begin fresh install
Untar component file : /usr/local/obm/_components/app-
common.tar.gz
Untar component file : /usr/local/obm/_components/app-inst-
nix-obm.tar.gz
Untar component file : /usr/local/obm/_components/app-native-
nix-x64.tar.gz
.
.
.
/usr/local/obm/jvm does not exist, creating this directory
Untar JVM file : /usr/local/obm/_components/jre-std-linux-
amd64.tar.gz
Untar component file : /usr/local/obm/_components/properties-
common.tar.gz
tar: bin/cbCoreRes_ar.properties: time stamp 2016-11-16
11:12:49 is 10.147282259 s in the future
tar: bin/cbCoreRes_bg.properties: time stamp 2016-11-16
11:12:49 is 10.136972735 s in the future
tar: bin/cbCoreRes_ca.properties: time stamp 2016-11-16
11:12:49 is 10.135530414 s in the future
.
.
.
Untar component file : /usr/local/obm/_components/util-
common.tar.gz
Untar component file : /usr/local/obm/_components/util-nix-
obm.tar.gz
Untar jvm and component files finished
Install Application Path: /usr/local/obm
Done

```

8. Upon successful installation, the AhsayOBM icon will be added to the desktop as a shortcut.

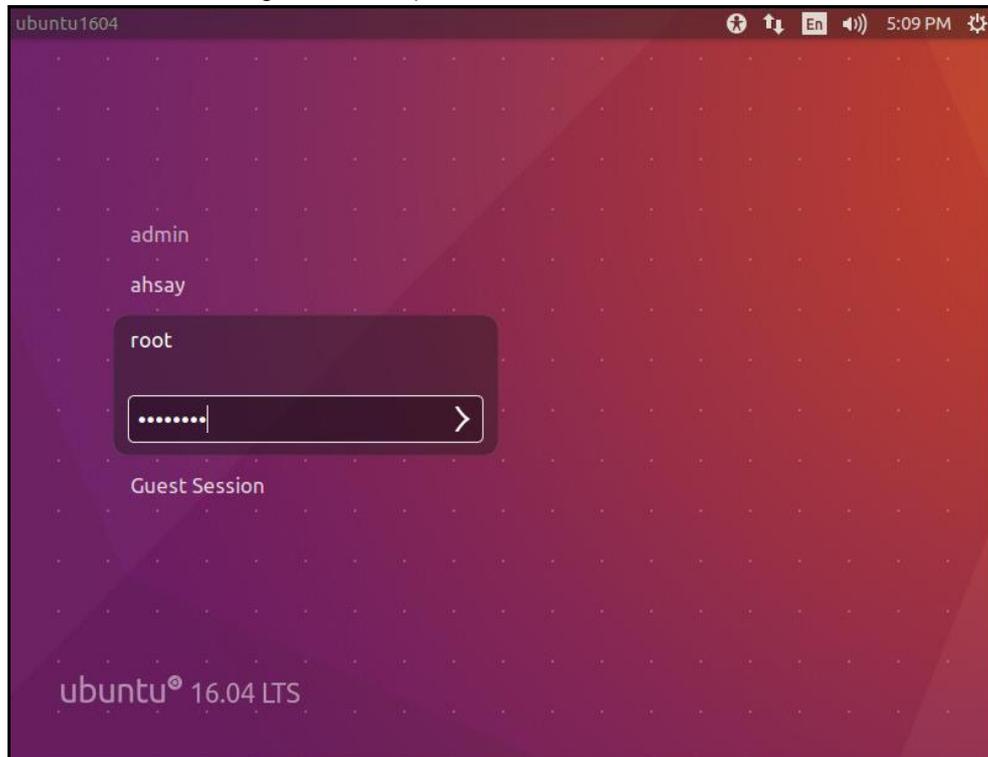


Alternatively, you can also click the **Applications** menu bar and then select **Other** to see the **AhsayOBM** option.



### 3.1.3 deb

1. Login as root on Ubuntu GUI. (Alternatively, you can remotely invoke the GUI of another Ubuntu machine using SSH client.)



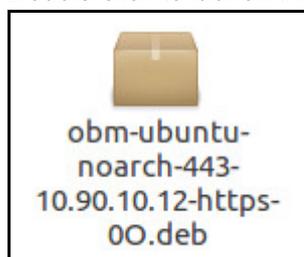
2. To download the AhsayOBM deb installation package file go to your backup service provider's website:



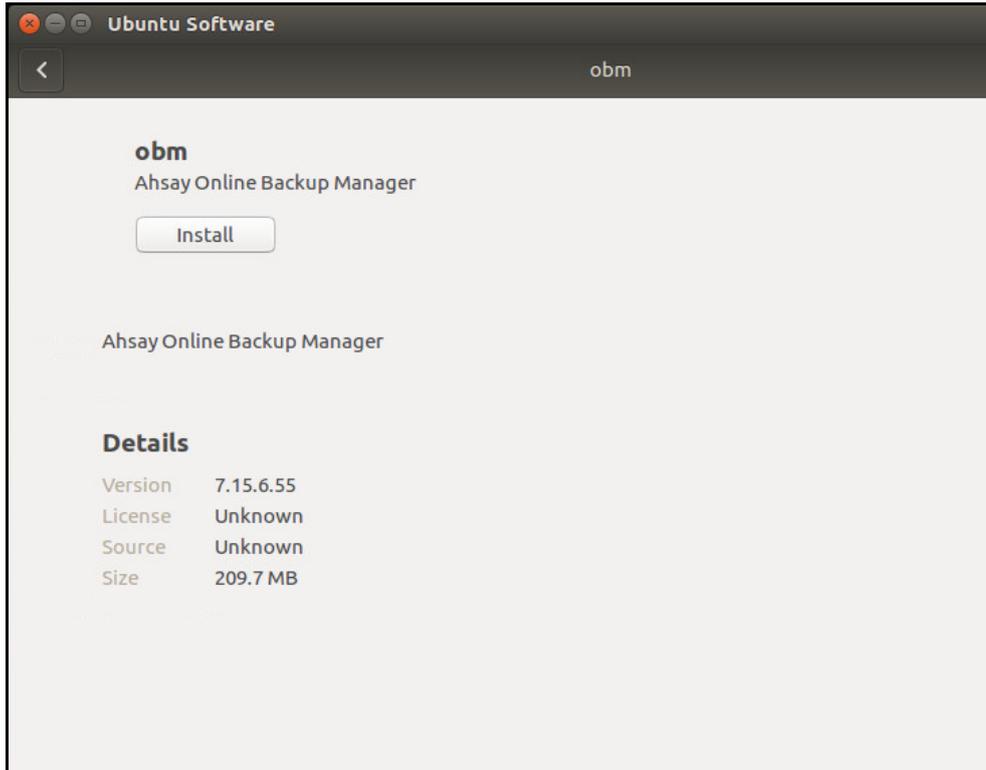
3. Go to the download page and click on **Download (deb) (Online)** button to download the AhsayOBM installer.



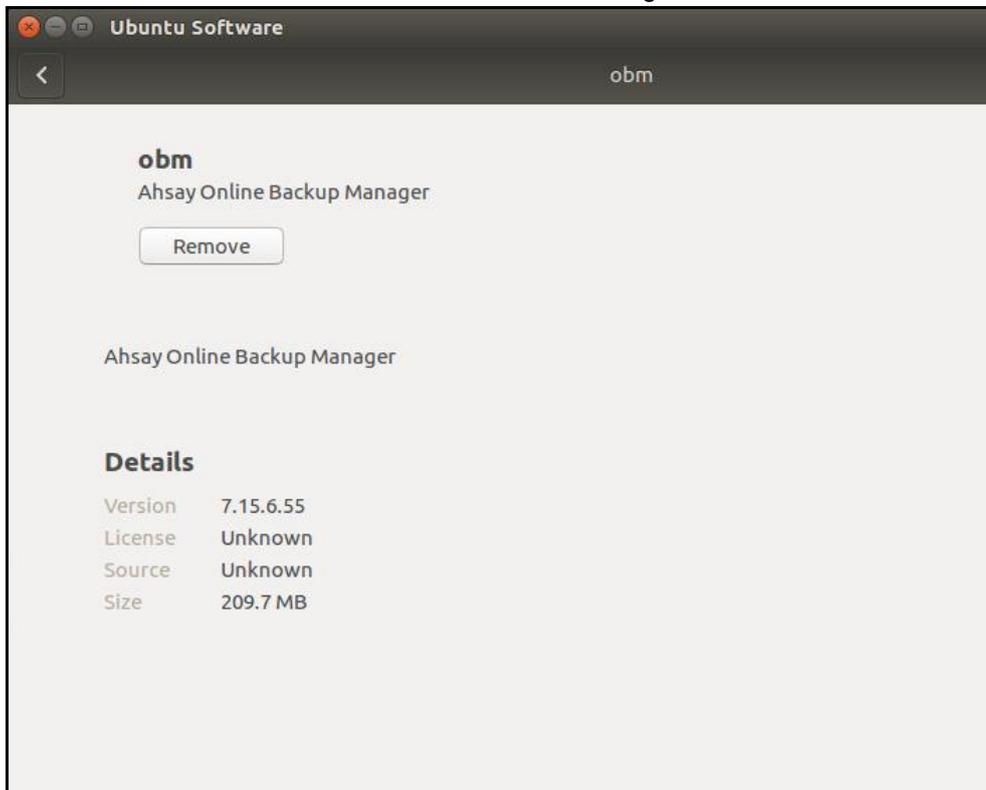
4. Double-click to launch the installation package you have downloaded.



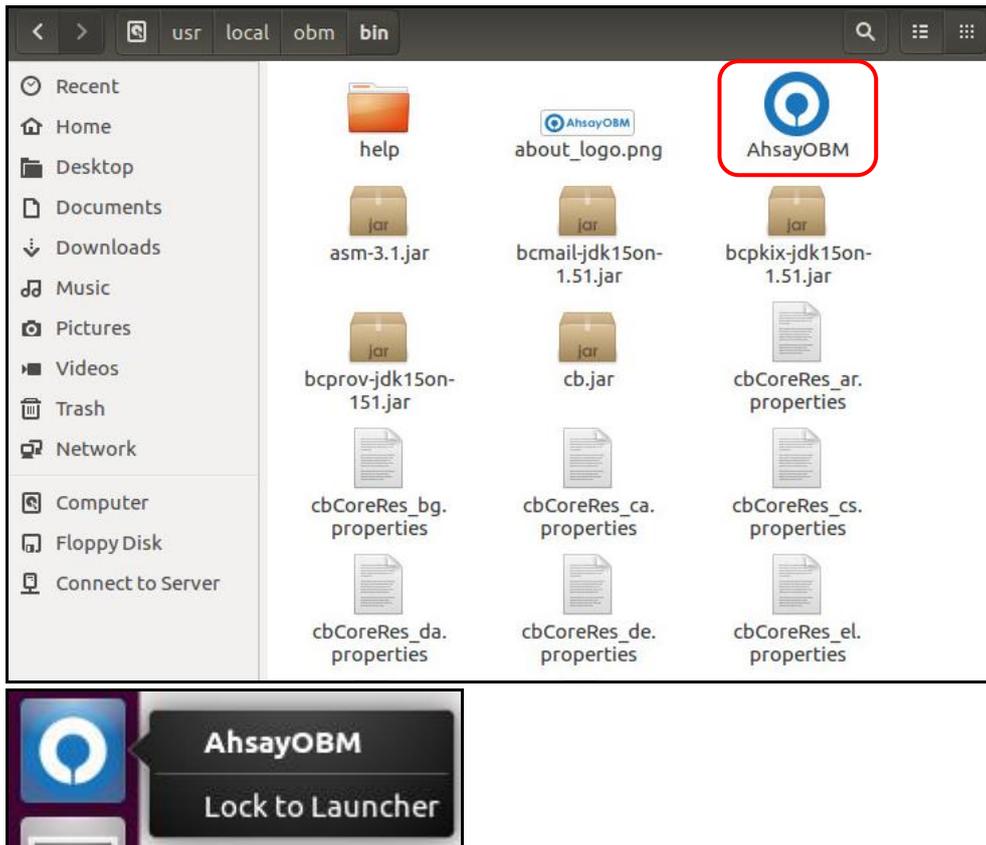
5. Click **Install** to start the installation.



6. After installation is done the Install button will be changed to Remove.

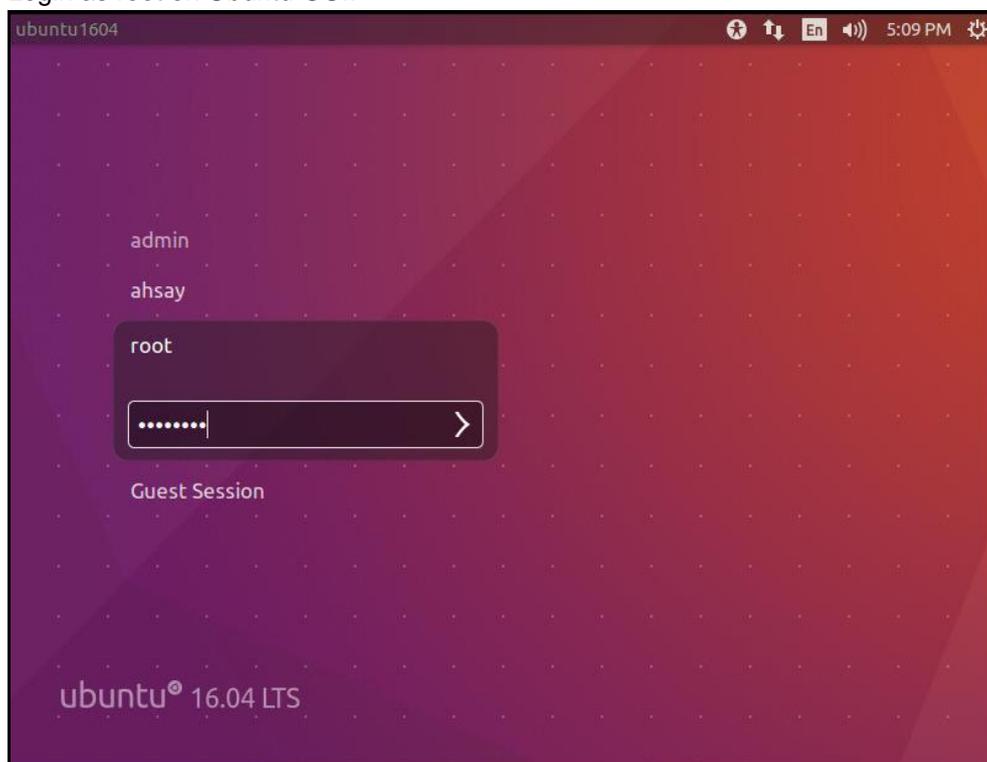


7. Go to `/usr/local/obm/bin`, double-click on AhsayOBM. Right-click on the AhsayOBM icon in the Launcher and click Lock to Launcher.



### 3.1.4 Ubuntu sh

1. Login as root on Ubuntu GUI.



2. Create a new folder named obm in the /usr/local directory in the Files window or you can create the folder through the Terminal.

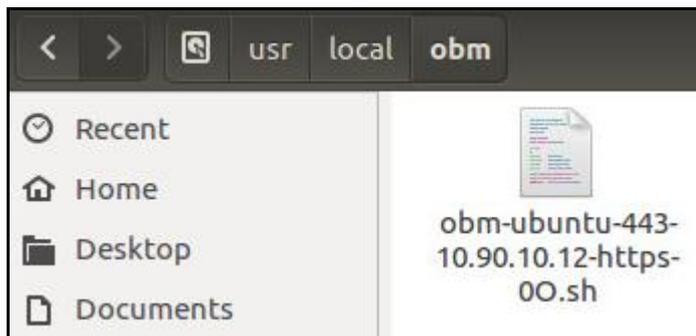
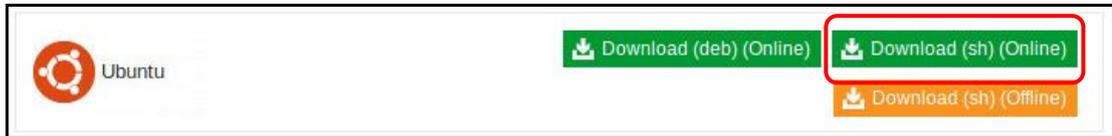


```
# mkdir -p /usr/local/obm
# cd /usr/local/obm
```

- To download the AhsayOBM sh installation package file go to your backup service provider's website:



- Right click on the **Download (sh) (Online)** button and click Save as. Save it in the obm folder that you created.



- Go back to the Terminal and execute the AhsayOBM script to begin the installation. Create a new directory `/usr/local/obm` for the installation of AhsayOBM. Then, go to the new directory.

```
# cd /usr/local/obm
# sh obm-ubuntu-443-10.90.10.12-https-00.sh
```

- The installation is completed when Done is shown at the end of the script.

```
Downloading file... app-common.tar.gz
Log Time: Tue Jul 31 16:04:50 HKT 2018
Host address: https://10.90.10.12:443
Downloading file... jre-std-linux-amd64.tar.gz
  % Total      % Received % Xferd  Average Speed   Time    Time
Time Current                                 Dload  Upload  Total
Spent    Left  Speed
100 43.7M  100 43.7M    0     0  15.7M      0  0:00:02
0:00:02 --:--:-- 15.7M
Download file completed
Untar component file to /tmp/_obm.180731160450/jvm
Downloading file... app-common.tar.gz
  % Total      % Received % Xferd  Average Speed   Time    Time
Time Current                                 Dload  Upload  Total
Spent    Left  Speed
100 32.8M  100 32.8M    0     0  26.5M      0  0:00:01
0:00:01 --:--:-- 26.5M
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... app-native-nix-x64.tar.gz
  % Total      % Received % Xferd  Average Speed   Time    Time
Time Current                                 Dload  Upload  Total
```

```

                                Dload Upload Total
Spent Left Speed
100 527k 100 527k 0 0 2595k 0 --:--:-- --:--
:-- --:--:-- 2585k
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... app-nix-obm.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
                                Dload Upload Total
Spent Left Speed
100 11061 100 11061 0 0 54988 0 --:--:-- --:--
:-- --:--:-- 55305
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... aua-common.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
                                Dload Upload Total
Spent Left Speed
100 13.7M 100 13.7M 0 0 24.1M 0 --:--:-- --:--
:-- --:--:-- 24.1M
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... aua-native-nix-x64.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
                                Dload Upload Total
Spent Left Speed
100 440k 100 440k 0 0 2122k 0 --:--:-- --:--
:-- --:--:-- 2127k
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... aua-nix-obm.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
                                Dload Upload Total
Spent Left Speed
100 979 100 979 0 0 5578 0 --:--:-- --:--
:-- --:--:-- 5594
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... util-common.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
                                Dload Upload Total
Spent Left Speed
100 4829 100 4829 0 0 28983 0 --:--:-- --:--
:-- --:--:-- 28916
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... util-nix-obm.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
                                Dload Upload Total
Spent Left Speed
100 9891 100 9891 0 0 51018 0 --:--:-- --:--
:-- --:~:~:~ 51248
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... properties-common.tar.gz

```

% Total Time	% Received Current	% Xferd	Average Speed	Time	Time
			Dload Upload	Total	
Spent	Left	Speed			
100	3192k	0 3192k	0 0	1058k	0 --:--:--
0:00:03	--:--:--	1058k			
Download file completed					
Untar component file to /tmp/_obm.180731160450					
tar: bin/cbCoreRes_ar.properties: time stamp 2018-07-31					
16:06:06 is 54.600867631 s in the future					
tar: bin/cbCoreRes_bg.properties: time stamp 2018-07-31					
16:06:06 is 54.598853307 s in the future					
tar: bin/cbCoreRes_ca.properties: time stamp 2018-07-31					
16:06:06 is 54.596048938 s in the future					
tar: bin/cbCoreRes_cs.properties: time stamp 2018-07-31					
16:06:06 is 54.594275472 s in the future					
tar: bin/cbCoreRes_da.properties: time stamp 2018-07-31					
16:06:06 is 54.592981143 s in the future					
tar: bin/cbCoreRes_de.properties: time stamp 2018-07-31					
16:06:06 is 54.591603769 s in the future					
tar: bin/cbCoreRes_el.properties: time stamp 2018-07-31					
16:06:06 is 54.588394105 s in the future					
tar: bin/cbCoreRes_en.properties: time stamp 2018-07-31					
16:06:06 is 54.587074173 s in the future					
tar: bin/cbCoreRes_es.properties: time stamp 2018-07-31					
16:06:06 is 54.585625466 s in the future					
tar: bin/cbCoreRes_eu.properties: time stamp 2018-07-31					
16:06:06 is 54.584450794 s in the future					
tar: bin/cbCoreRes_fi.properties: time stamp 2018-07-31					
16:06:06 is 54.583011337 s in the future					
tar: bin/cbCoreRes_fr.properties: time stamp 2018-07-31					
16:06:06 is 54.581028693 s in the future					
tar: bin/cbCoreRes_hu.properties: time stamp 2018-07-31					
16:06:06 is 54.577819328 s in the future					
tar: bin/cbCoreRes_is.properties: time stamp 2018-07-31					
16:06:06 is 54.575254737 s in the future					
tar: bin/cbCoreRes_it.properties: time stamp 2018-07-31					
16:06:06 is 54.573806614 s in the future					
tar: bin/cbCoreRes_iw.properties: time stamp 2018-07-31					
16:06:06 is 54.571205076 s in the future					
tar: bin/cbCoreRes_ja.properties: time stamp 2018-07-31					
16:06:06 is 54.569089722 s in the future					
tar: bin/cbCoreRes_ko.properties: time stamp 2018-07-31					
16:06:07 is 55.567348476 s in the future					
tar: bin/cbCoreRes_lt.properties: time stamp 2018-07-31					
16:06:07 is 55.565122389 s in the future					
tar: bin/cbCoreRes_nl.properties: time stamp 2018-07-31					
16:06:07 is 55.56224799 s in the future					
tar: bin/cbCoreRes_no.properties: time stamp 2018-07-31					
16:06:07 is 55.558123684 s in the future					
tar: bin/cbCoreRes_pl.properties: time stamp 2018-07-31					
16:06:07 is 55.556594008 s in the future					
tar: bin/cbCoreRes_pt_BR.properties: time stamp 2018-07-31					
16:06:07 is 55.555068058 s in the future					
tar: bin/cbCoreRes_pt_PT.properties: time stamp 2018-07-31					
16:06:07 is 55.553424996 s in the future					
tar: bin/cbCoreRes_ro.properties: time stamp 2018-07-31					
16:06:07 is 55.552085724 s in the future					
tar: bin/cbCoreRes_ru.properties: time stamp 2018-07-31					
16:06:07 is 55.550413906 s in the future					

```
tar: bin/cbCoreRes_sl.properties: time stamp 2018-07-31
16:06:07 is 55.548939766 s in the future
tar: bin/cbCoreRes_sv.properties: time stamp 2018-07-31
16:06:07 is 55.547199889 s in the future
tar: bin/cbCoreRes_th_TH.properties: time stamp 2018-07-31
16:06:07 is 55.546079817 s in the future
tar: bin/cbCoreRes_tr.properties: time stamp 2018-07-31
16:06:07 is 55.544653124 s in the future
tar: bin/cbCoreRes_uk.properties: time stamp 2018-07-31
16:06:07 is 55.543236773 s in the future
tar: bin/cbCoreRes_zh_CN.properties: time stamp 2018-07-31
16:06:07 is 55.541682141 s in the future
tar: bin/cbCoreRes_zh_TW.properties: time stamp 2018-07-31
16:06:07 is 55.540214217 s in the future
tar: bin/cbUIRes_ar.properties: time stamp 2018-07-31
16:06:07 is 55.538147693 s in the future
tar: bin/cbUIRes_bg.properties: time stamp 2018-07-31
16:06:07 is 55.537112009 s in the future
tar: bin/cbUIRes_ca.properties: time stamp 2018-07-31
16:06:07 is 55.536094878 s in the future
tar: bin/cbUIRes_cs.properties: time stamp 2018-07-31
16:06:07 is 55.534987819 s in the future
tar: bin/cbUIRes_da.properties: time stamp 2018-07-31
16:06:07 is 55.534219083 s in the future
tar: bin/cbUIRes_de.properties: time stamp 2018-07-31
16:06:07 is 55.53316627 s in the future
tar: bin/cbUIRes_el.properties: time stamp 2018-07-31
16:06:07 is 55.53074634 s in the future
tar: bin/cbUIRes_en.properties: time stamp 2018-07-31
16:06:07 is 55.529583414 s in the future
tar: bin/cbUIRes_es.properties: time stamp 2018-07-31
16:06:07 is 55.528873856 s in the future
tar: bin/cbUIRes_eu.properties: time stamp 2018-07-31
16:06:07 is 55.52755176 s in the future
tar: bin/cbUIRes_fi.properties: time stamp 2018-07-31
16:06:07 is 55.526392522 s in the future
tar: bin/cbUIRes_fr.properties: time stamp 2018-07-31
16:06:07 is 55.525350945 s in the future
tar: bin/cbUIRes_hu.properties: time stamp 2018-07-31
16:06:07 is 55.524128418 s in the future
tar: bin/cbUIRes_is.properties: time stamp 2018-07-31
16:06:07 is 55.522931681 s in the future
tar: bin/cbUIRes_it.properties: time stamp 2018-07-31
16:06:07 is 55.521106878 s in the future
tar: bin/cbUIRes_iw.properties: time stamp 2018-07-31
16:06:07 is 55.517938658 s in the future
tar: bin/cbUIRes_ja.properties: time stamp 2018-07-31
16:06:07 is 55.515994712 s in the future
tar: bin/cbUIRes_ko.properties: time stamp 2018-07-31
16:06:07 is 55.514581606 s in the future
tar: bin/cbUIRes_lt.properties: time stamp 2018-07-31
16:06:07 is 55.513143276 s in the future
tar: bin/cbUIRes_nl.properties: time stamp 2018-07-31
16:06:07 is 55.511833127 s in the future
tar: bin/cbUIRes_no.properties: time stamp 2018-07-31
16:06:07 is 55.510973038 s in the future
tar: bin/cbUIRes_pl.properties: time stamp 2018-07-31
16:06:07 is 55.509368142 s in the future
tar: bin/cbUIRes_pt_BR.properties: time stamp 2018-07-31
16:06:07 is 55.508134781 s in the future
```

```
tar: bin/cbUIRes_pt_PT.properties: time stamp 2018-07-31
16:06:07 is 55.507047288 s in the future
tar: bin/cbUIRes_ro.properties: time stamp 2018-07-31
16:06:07 is 55.505713068 s in the future
tar: bin/cbUIRes_ru.properties: time stamp 2018-07-31
16:06:07 is 55.504491923 s in the future
tar: bin/cbUIRes_sl.properties: time stamp 2018-07-31
16:06:07 is 55.503325164 s in the future
tar: bin/cbUIRes_sv.properties: time stamp 2018-07-31
16:06:07 is 55.502431933 s in the future
tar: bin/cbUIRes_th_TH.properties: time stamp 2018-07-31
16:06:07 is 55.501174194 s in the future
tar: bin/cbUIRes_tr.properties: time stamp 2018-07-31
16:06:07 is 55.500036547 s in the future
tar: bin/cbUIRes_uk.properties: time stamp 2018-07-31
16:06:07 is 55.498806023 s in the future
tar: bin/cbUIRes_zh_CN.properties: time stamp 2018-07-31
16:06:07 is 55.497602368 s in the future
tar: bin/cbUIRes_zh_TW.properties: time stamp 2018-07-31
16:06:07 is 55.496178525 s in the future
tar: bin/obxRes_ar.properties: time stamp 2018-07-31 16:06:07
is 55.493525256 s in the future
tar: bin/obxRes_bg.properties: time stamp 2018-07-31 16:06:07
is 55.491666451 s in the future
tar: bin/obxRes_ca.properties: time stamp 2018-07-31 16:06:07
is 55.490151066 s in the future
tar: bin/obxRes_cs.properties: time stamp 2018-07-31 16:06:07
is 55.488681968 s in the future
tar: bin/obxRes_da.properties: time stamp 2018-07-31 16:06:07
is 55.48707111 s in the future
tar: bin/obxRes_de.properties: time stamp 2018-07-31 16:06:07
is 55.485485817 s in the future
tar: bin/obxRes_el.properties: time stamp 2018-07-31 16:06:07
is 55.482081559 s in the future
tar: bin/obxRes_en.properties: time stamp 2018-07-31 16:06:07
is 55.480223546 s in the future
tar: bin/obxRes_es.properties: time stamp 2018-07-31 16:06:07
is 55.478261427 s in the future
tar: bin/obxRes_eu.properties: time stamp 2018-07-31 16:06:07
is 55.476818585 s in the future
tar: bin/obxRes_fi.properties: time stamp 2018-07-31 16:06:07
is 55.473466919 s in the future
tar: bin/obxRes_fr.properties: time stamp 2018-07-31 16:06:07
is 55.471435978 s in the future
tar: bin/obxRes_hu.properties: time stamp 2018-07-31 16:06:07
is 55.457264521 s in the future
tar: bin/obxRes_is.properties: time stamp 2018-07-31 16:06:07
is 55.455664323 s in the future
tar: bin/obxRes_it.properties: time stamp 2018-07-31 16:06:07
is 55.454222613 s in the future
tar: bin/obxRes_iw.properties: time stamp 2018-07-31 16:06:07
is 55.45183501 s in the future
tar: bin/obxRes_ja.properties: time stamp 2018-07-31 16:06:07
is 55.449421287 s in the future
tar: bin/obxRes_ko.properties: time stamp 2018-07-31 16:06:07
is 55.447601773 s in the future
tar: bin/obxRes_lt.properties: time stamp 2018-07-31 16:06:07
is 55.445097838 s in the future
tar: bin/obxRes_nl.properties: time stamp 2018-07-31 16:06:07
is 55.443632976 s in the future
```

```

tar: bin/obxRes_no.properties: time stamp 2018-07-31 16:06:07
is 55.442067823 s in the future
tar: bin/obxRes_pl.properties: time stamp 2018-07-31 16:06:07
is 55.439929144 s in the future
tar: bin/obxRes_pt_BR.properties: time stamp 2018-07-31
16:06:07 is 55.436840352 s in the future
tar: bin/obxRes_pt_PT.properties: time stamp 2018-07-31
16:06:08 is 56.435041376 s in the future
tar: bin/obxRes_ro.properties: time stamp 2018-07-31 16:06:08
is 56.433430189 s in the future
tar: bin/obxRes_ru.properties: time stamp 2018-07-31 16:06:08
is 56.431697585 s in the future
tar: bin/obxRes_sl.properties: time stamp 2018-07-31 16:06:08
is 56.430268526 s in the future
tar: bin/obxRes_sv.properties: time stamp 2018-07-31 16:06:08
is 56.429052965 s in the future
tar: bin/obxRes_th_TH.properties: time stamp 2018-07-31
16:06:08 is 56.428023954 s in the future
tar: bin/obxRes_tr.properties: time stamp 2018-07-31 16:06:08
is 56.426418328 s in the future
tar: bin/obxRes_uk.properties: time stamp 2018-07-31 16:06:08
is 56.42515376 s in the future
tar: bin/obxRes_zh_CN.properties: time stamp 2018-07-31
16:06:08 is 56.423475916 s in the future
tar: bin/obxRes_zh_TW.properties: time stamp 2018-07-31
16:06:08 is 56.422063014 s in the future
Downloading file... app-inst-nix-obm.tar.gz
  % Total    % Received % Xferd  Average Speed   Time    Time
Time  Current
                                Dload  Upload  Total
Spent    Left  Speed
100 164k 100 164k    0    0  688k    0  --:--:--  --:--
:-- --:--:-- 688k
Download file completed
Untar component file to /tmp/_obm.180731160450
Downloading file... aua-inst-nix-obm.tar.gz
  % Total    % Received % Xferd  Average Speed   Time    Time
Time  Current
                                Dload  Upload  Total
Spent    Left  Speed
100 48657 100 48657    0    0  240k    0  --:--:--  --:--
:-- --:--:-- 239k
Download file completed
Untar component file to /tmp/_obm.180731160450
No old application found, begin fresh install
Install Application Path: /usr/local/obm
Done

```

7. Upon successful installation, the AhsayOBM icon will be added to the desktop as a shortcut.



## Offline Installation

### 3.2.1 Linux sh

1. Login as root on Linux GUI. (Alternatively, you can remotely invoke the GUI of another Linux machine using SSH client.)



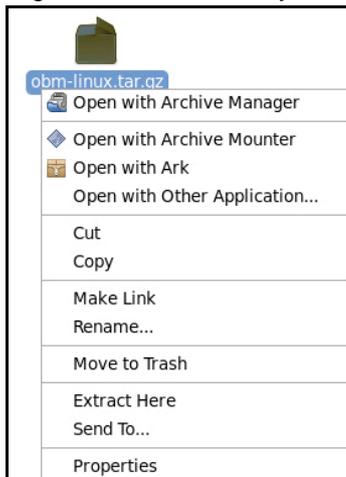
2. To download the AhsayOBM rpm installation package file from your backup service provider's website:



3. Go to the download page and right click on **Download (sh) (Offline)** button to download the AhsayOBM installer.



4. Right click on the AhsayOBR installation package .gz file to extract.



5. Open the folder to check the extracted installation package.





6. Create a folder under the **/usr/local** directory. You could name the folder **obm**. Move the extracted obm-linux.sh to the obm folder.
7. Click **Applications** at the top menu bar, then select **System Tools>Terminal**.



8. Use the command highlighted in **red** to enter the **/usr/local/obm** directory.

```
# cd /usr/local/obm
```

9. Execute the AhsayOBM install script.

```
# sh obm-linux.sh
```

10. The installation is completed when **Done** shows at the end of the script.

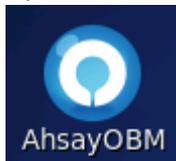
```
Log Time: Tue Oct 17 11:03:12 HKT 2017
Using package in Log Time: Tue Oct 17 11:03:12 HKT
2017/app.pkg
Package version: 7.15.0.0
Untar jre-std-linux-amd64.tar.gz to
/tmp/_obm.171017110312/jvm
Untar app-common.tar.gz to /tmp/_obm.171017110312
Untar app-native-nix-x64.tar.gz to /tmp/_obm.171017110312
Untar app-nix-obm.tar.gz to /tmp/_obm.171017110312
Untar aua-common.tar.gz to /tmp/_obm.171017110312
Untar aua-native-nix-x64.tar.gz to /tmp/_obm.171017110312
Untar aua-nix-obm.tar.gz to /tmp/_obm.171017110312
Untar util-common.tar.gz to /tmp/_obm.171017110312
Untar util-nix-obm.tar.gz to /tmp/_obm.171017110312
Untar properties-common.tar.gz to /tmp/_obm.171017110312
Untar app-inst-nix-obm.tar.gz to /tmp/_obm.171017110312
Untar aua-inst-nix-obm.tar.gz to /tmp/_obm.171017110312
Configure Application Path: /home/admin/Downloads/obr-
linux/RestoreWizard
Log Time: Tue Oct 17 11:03:18 HKT 2017
```

```
Verifying current user privilege ...
Current user has enough privilege to "config".

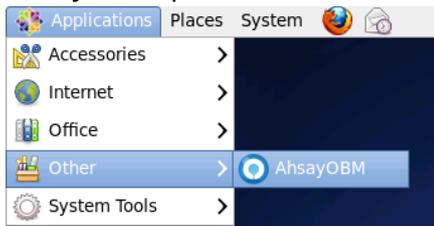
Start configuration on Generic Linux Platform (Linux)

Installation Path: /home/admin/Downloads/obr-
linx/RestoreWizard
Minimum supported JVM version
Maximum supported JVM version: 1.8
Current JVM version is supported for installation.
Create Backup Manager JVM, Path: /home/admin/Downloads/obr-
linx/RestoreWizard/jvm/bin/bJW
Create Scheduler Service JVM, Path:
/home/admin/Downloads/obr-linx/RestoreWizard/jvm/bin/bJW
Setup File Permissions
localuser: root being added to access control list
Startup Ahsay Online Backup Manager ...
Done
```

11. Upon successful installation, the AhsayOBM icon will be added to the desktop as a shortcut.

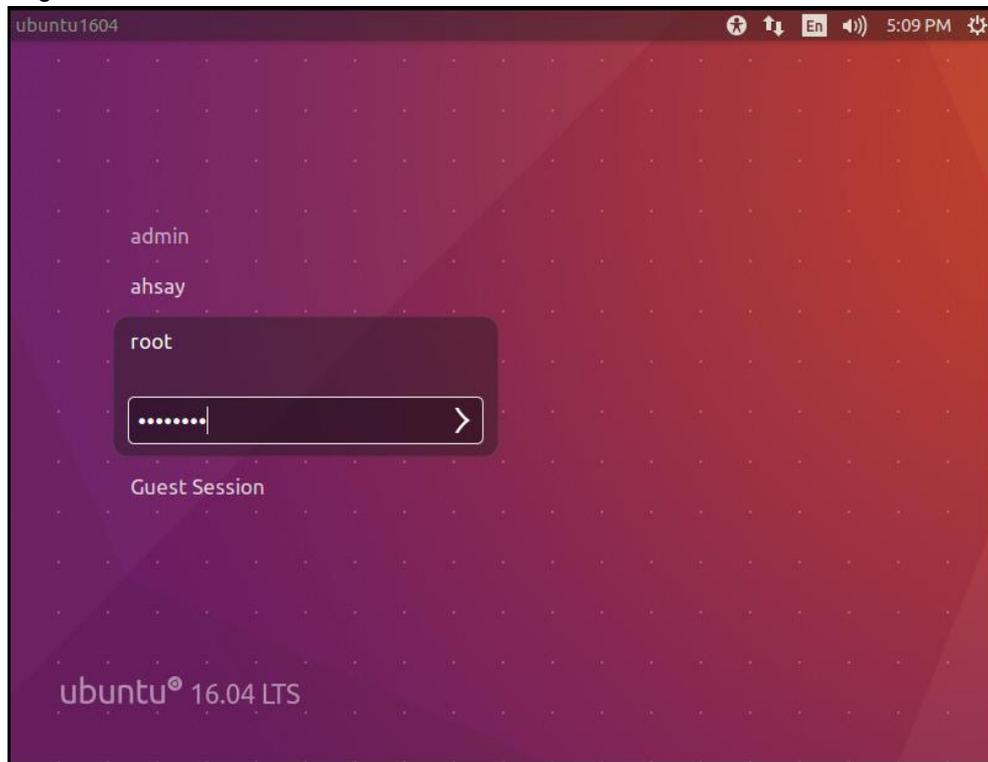


Alternatively, you can also click the **Applications** menu bar and then select **Other** to see the **AhsayOBM** option.

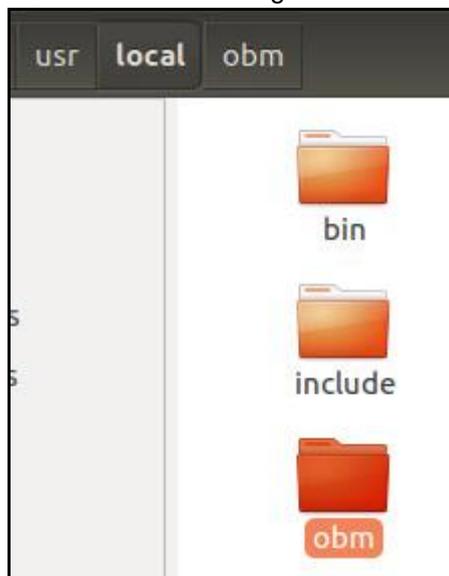


### 3.2.2 Ubuntu sh

1. Login as root on Ubuntu GUI.



2. Create a new folder named obm in the /usr/local directory in the Files window or you can create the folder through the Terminal.

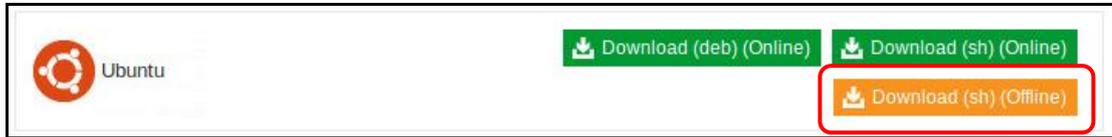


```
# mkdir -p /usr/local/obm
# cd /usr/local/obm
```

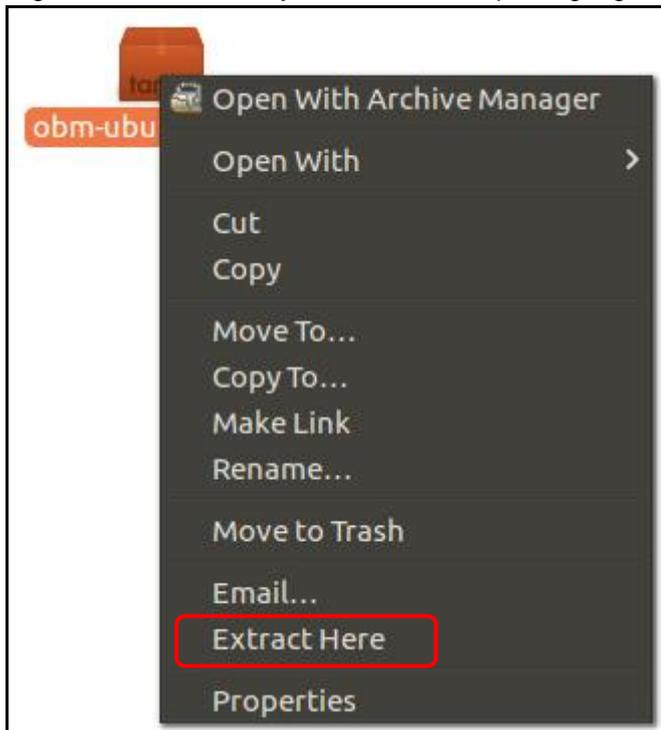
3. To download the AhsayOBM sh installation package file go to your backup service provider's website:



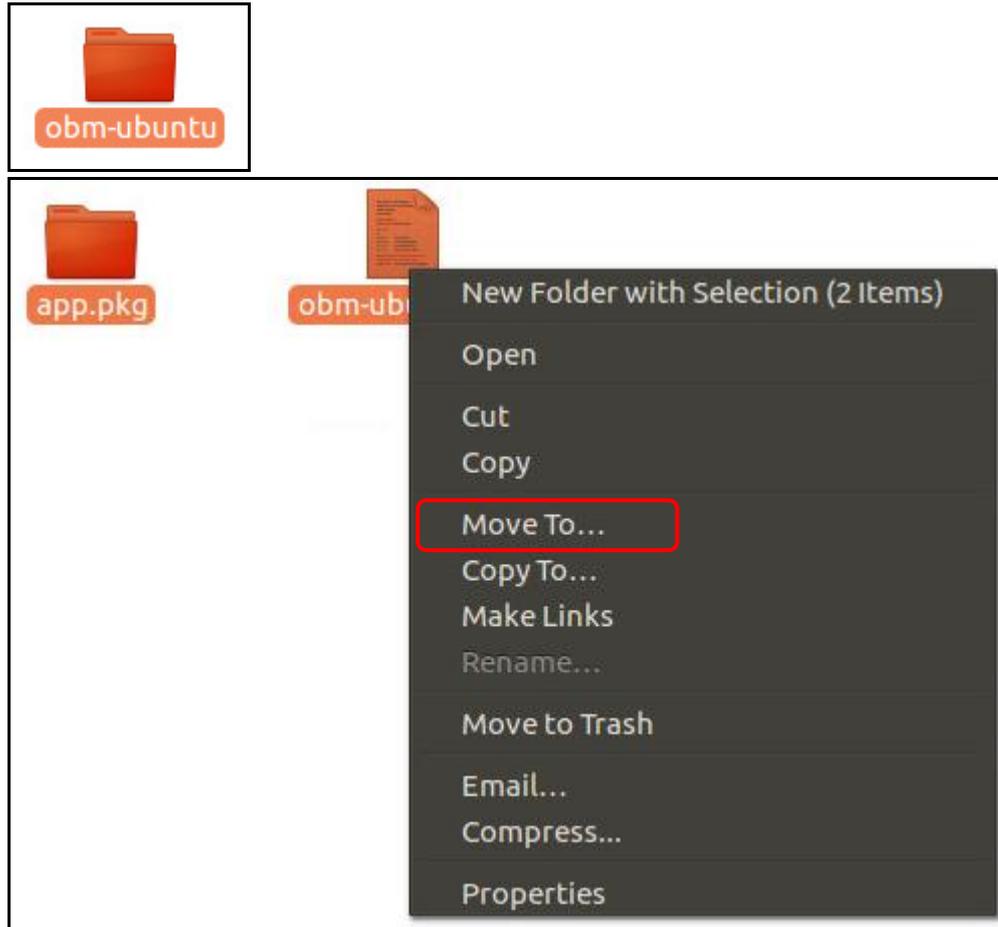
4. Click on **Download (sh) (Offline)** button to save.



5. Right-click on the AhsayOBM installation package .gz file to extract.



- Open the extracted folder and move the files to the obm folder that you created.



- Open the Terminal and execute the AhsayOBM script to begin the installation.

```
# cd /usr/local/obm
# sh obm-ubuntu.sh
```

- The installation is completed when Done is shown at the end of the script.

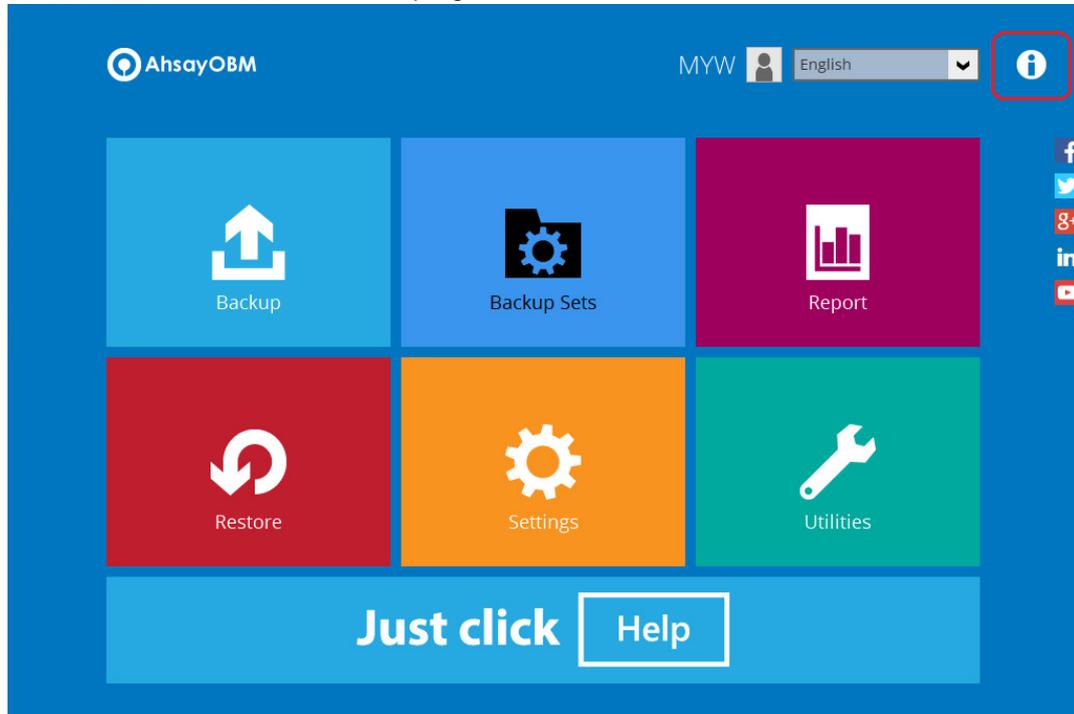
```
Log Time: Tue Jul 31 16:40:26 HKT 2018
Using package in /usr/local/obm/app.pkg
Package version: 7.15.6.55
Untar jre-std-linux-amd64.tar.gz to
/tmp/_obm.180731164026/jvm
Untar app-common.tar.gz to /tmp/_obm.180731164026
Untar app-native-nix-x64.tar.gz to /tmp/_obm.180731164026
Untar app-nix-obm.tar.gz to /tmp/_obm.180731164026
Untar aua-common.tar.gz to /tmp/_obm.180731164026
Untar aua-native-nix-x64.tar.gz to /tmp/_obm.180731164026
Untar aua-nix-obm.tar.gz to /tmp/_obm.180731164026
Untar util-common.tar.gz to /tmp/_obm.180731164026
Untar util-nix-obm.tar.gz to /tmp/_obm.180731164026
Untar properties-common.tar.gz to /tmp/_obm.180731164026
Untar app-inst-nix-obm.tar.gz to /tmp/_obm.180731164026
Untar aua-inst-nix-obm.tar.gz to /tmp/_obm.180731164026
  No old application found, begin fresh install
Install Application Path: /usr/local/obm
Done
```

9. Upon successful installation, the AhsayOBM icon will be added to the desktop as a shortcut.

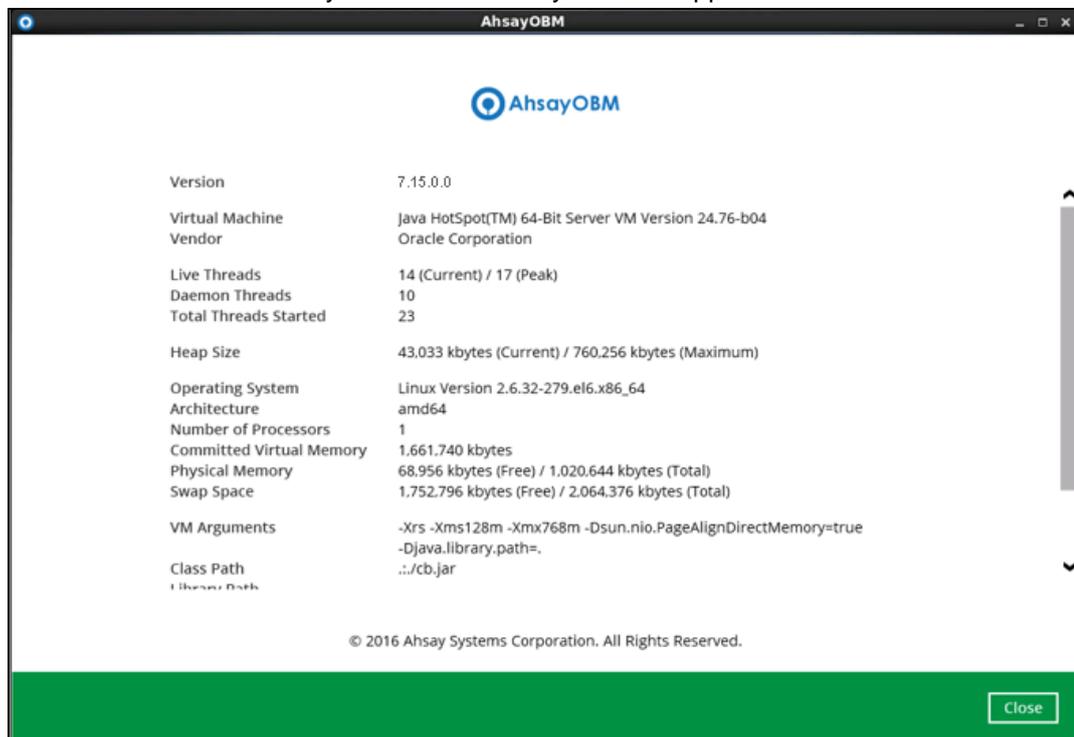


## Check Version of AhsayOBM

1. Login to the AhsayOBM application according to the instructions in section 4 [Login to AhsayOBM](#).
2. Click the Information icon at the top right corner.



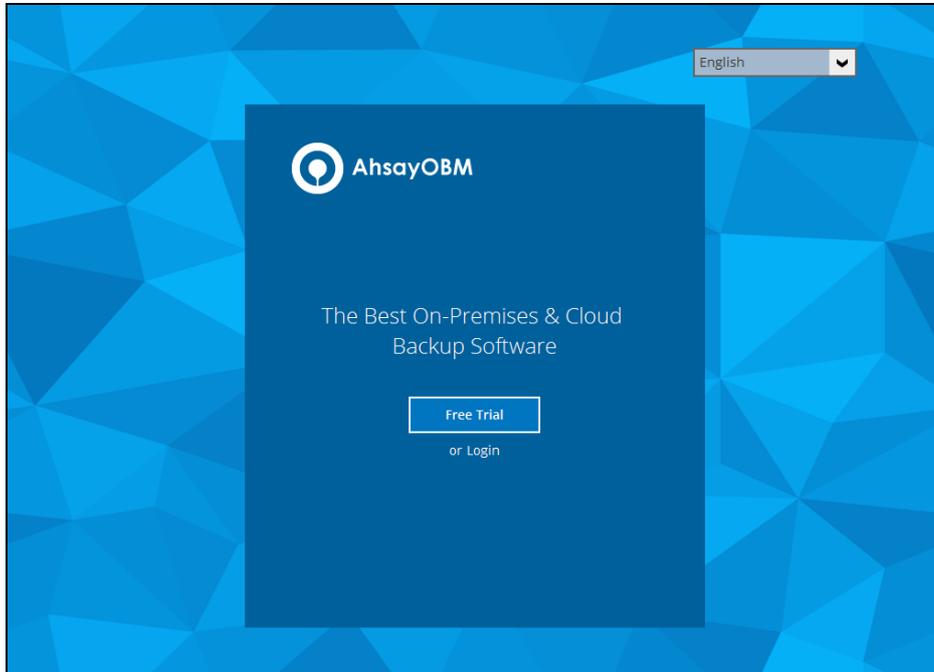
3. The version information of your installed AhsayOBM will appear.



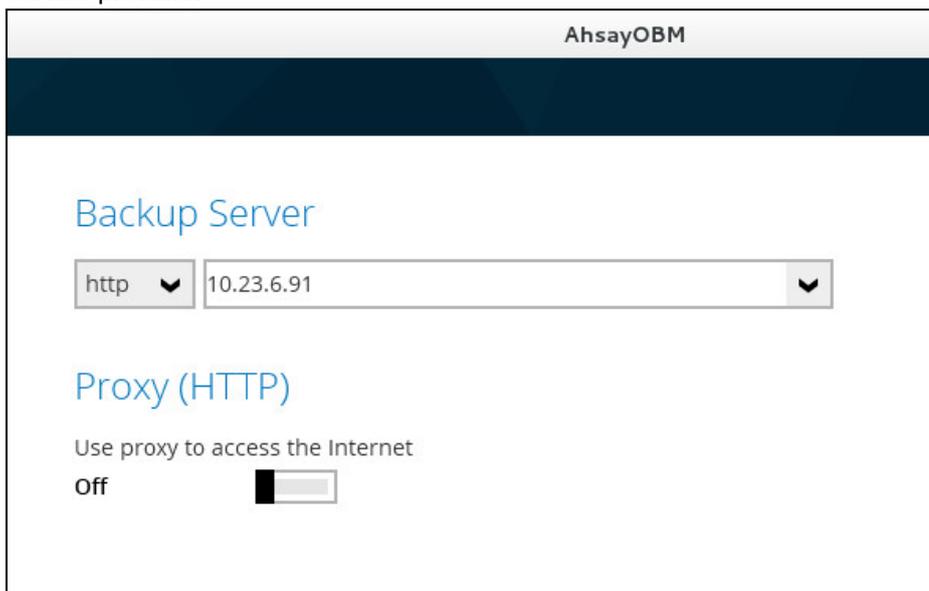
## 4 Starting AhsayOBM

### Login to AhsayOBM

1. The Free Trial Registration menu may be displayed when you login for the first time.



2. Click **Login** if you already have an AhsayOBM account, or click **Free Trial** to register for a trial backup account.
3. Click **Show advanced option** to enter the backup server settings provided by your backup service provider.

A screenshot of the AhsayOBM backup server settings page. The page has a white background with a dark blue header bar containing the "AhsayOBM" logo. Below the header, the section is titled "Backup Server". There are two dropdown menus: the first is set to "http" and the second is set to "10.23.6.91". Below this, the section is titled "Proxy (HTTP)". Underneath, there is a text label "Use proxy to access the Internet" and a toggle switch that is currently turned "Off".

Enter the login name and password of your AhsayOBM account. Then, click OK to login.

AhsayOBM

English

 AhsayOBM

Login

Login name  
username

Password  
\*\*\*\*\*

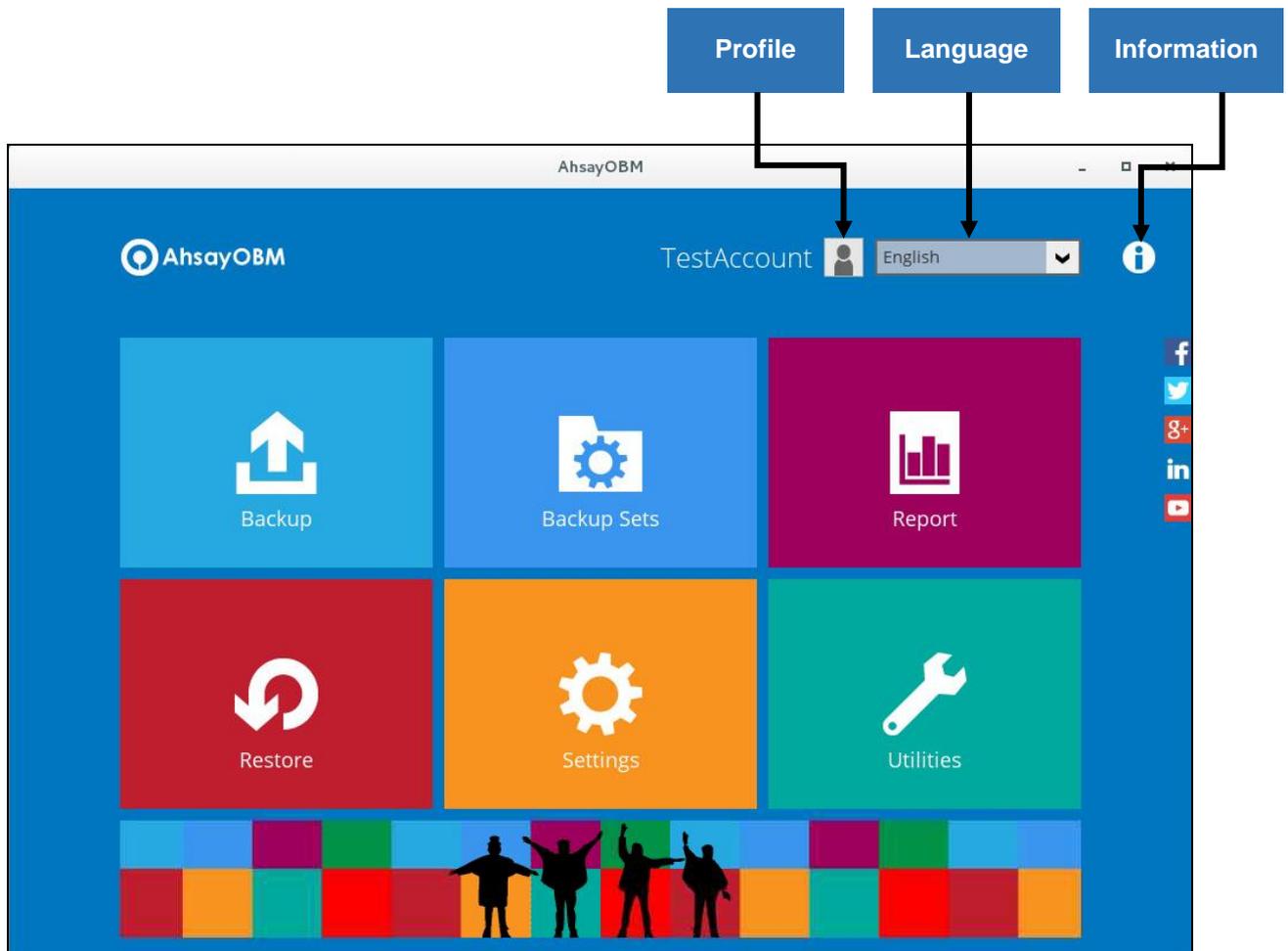
Save password

[Forgot password](#)

[Show advanced option](#)



## 5 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 settings that can be modified by the user.

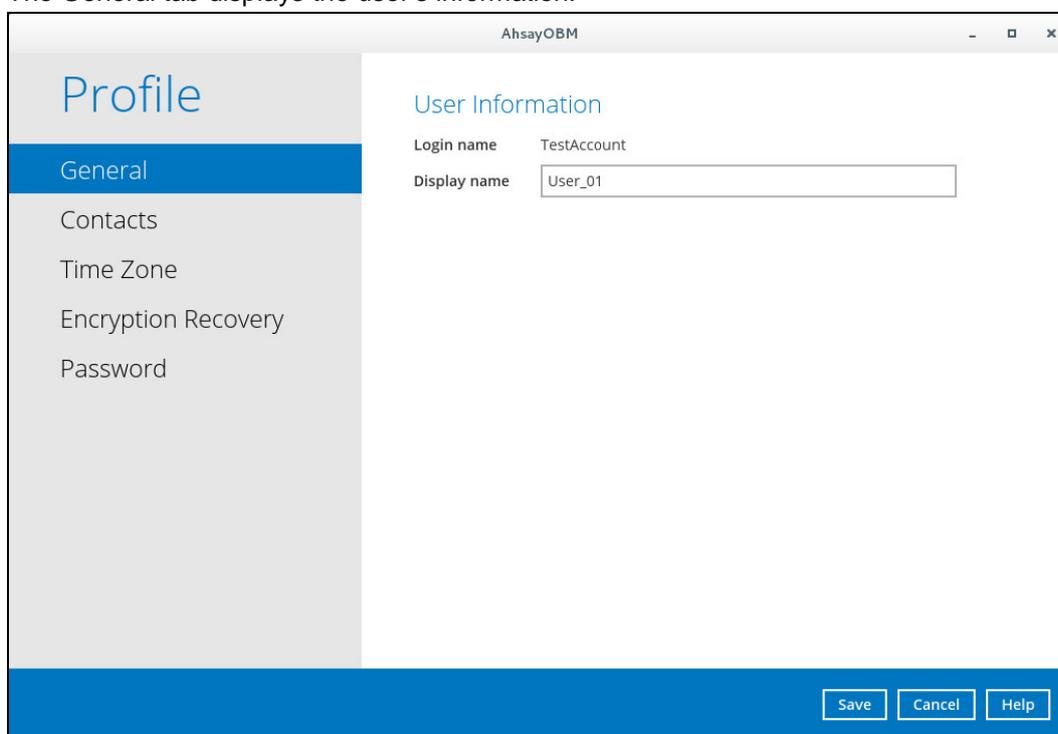


There are five (5) available features:

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

## General

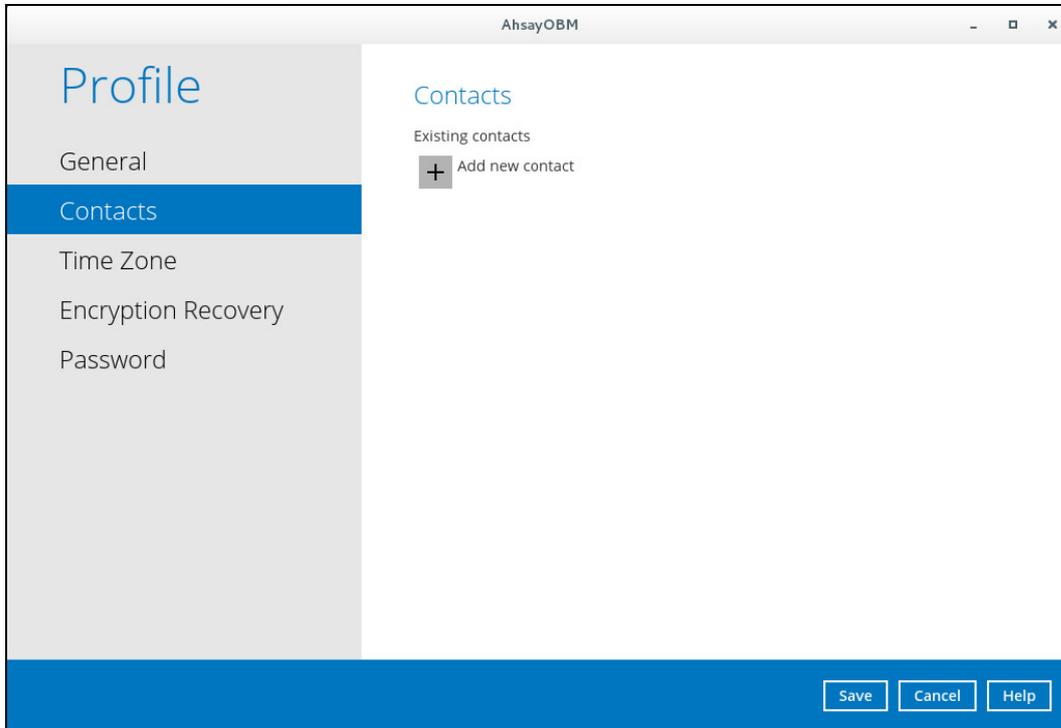
The General tab displays the user's information.

A screenshot of a web application window titled 'AhsayOBM'. The window shows a 'Profile' section with a 'General' tab selected. The 'User Information' section contains two fields: 'Login name' with the value 'TestAccount' and 'Display name' with the value 'User\_01'. At the bottom right, there are three buttons: 'Save', 'Cancel', and 'Help'.

Control	Description
<b>Login name</b>	Name of the backup account.
<b>Display name</b>	Display name of the backup account upon logging in to the AhsayCBS User Web Console.

## Contacts

This refers to the contact information of the user. You can also add multiple contacts or modify an existing contact information. Having this filled up will help in sending backup and daily reports and even recovered backup set encryption key in case it was forgotten or lost.



To add a new contact, follow the instructions below:

1. Click the [+] plus sign to add a new contact.



2. Complete the following fields then click the [OK] button to return to the main screen.
  - Name
  - Email
  - Address
  - Company
  - Website
  - Phone 1
  - Phone 2

AhsayOBM

Profile

Contacts

New Contact

Name

Email

Send me encrypted email (S/MIME)

Address

Company

Website

Phone 1

OK Cancel

Save Cancel Help

3. Click the [Save] button to store the contact information.

AhsayOBM

Profile

General

Contacts

Time Zone

Encryption Recovery

Password

Contacts

Existing contacts

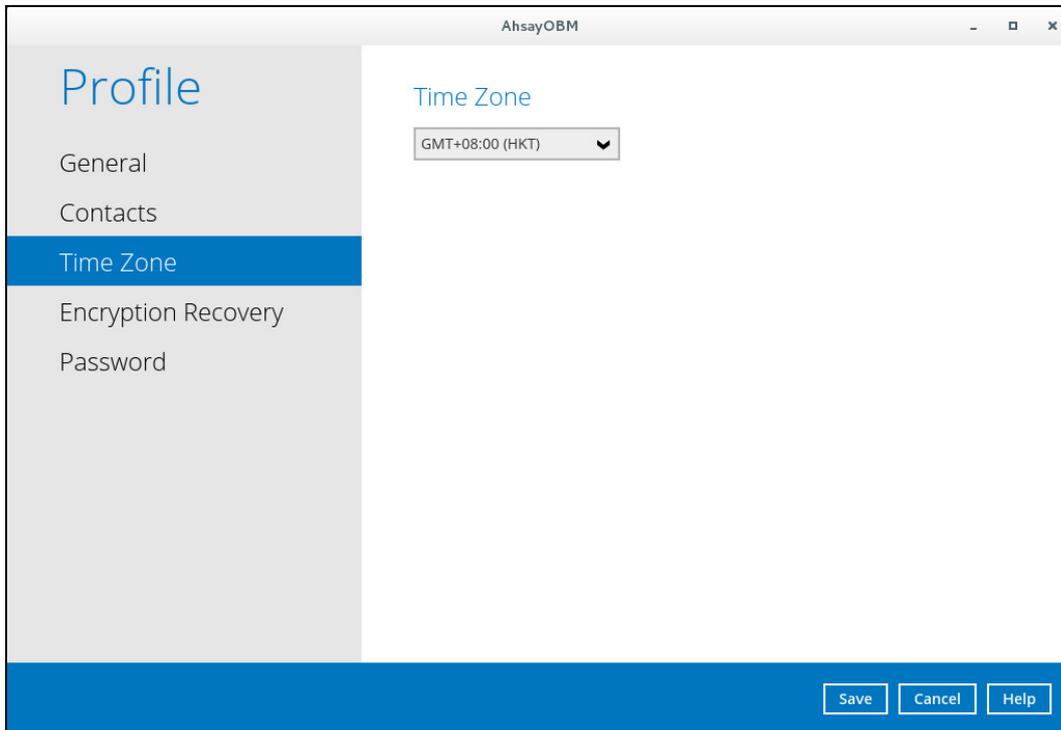
Sample Full Name  
samplemail@email.com

Add

Save Cancel Help

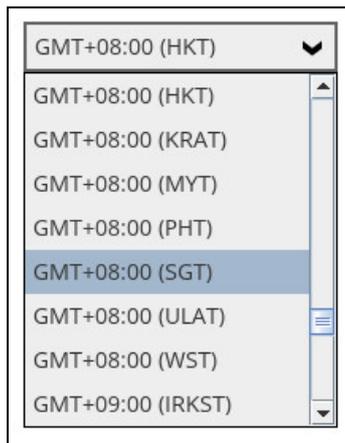
## Time Zone

The time zone indicated.



To modify the time zone, follow the instructions below:

1. Select from the dropdown list.

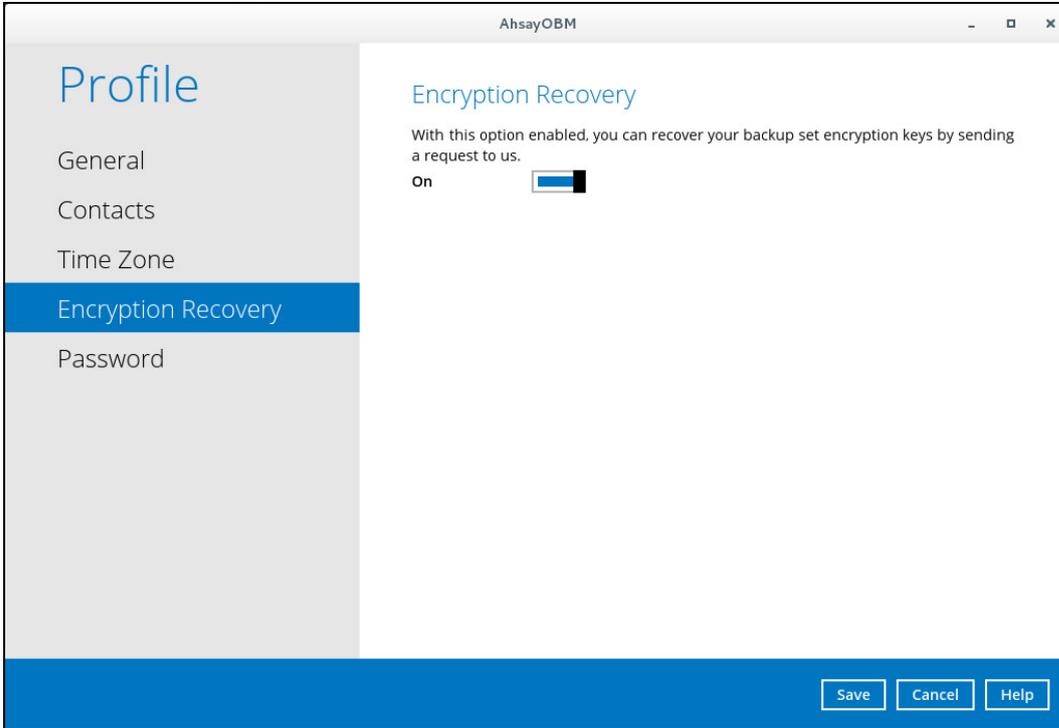


2. Click the [Save] button to save the updated time zone.

## Encryption Recovery

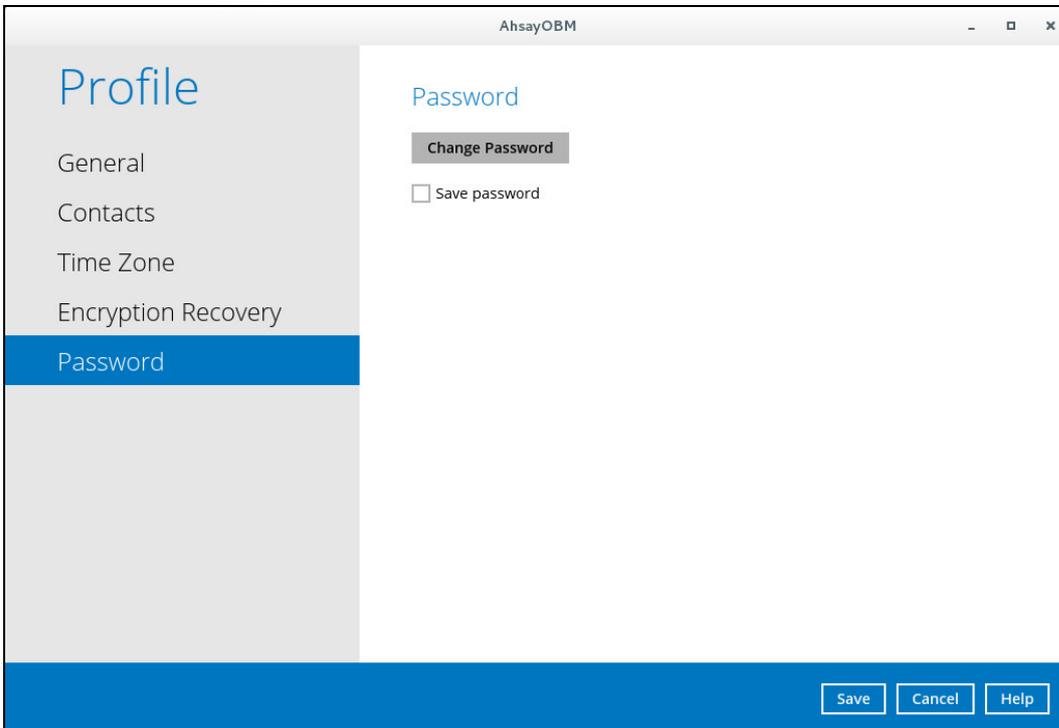
Backup set encryption key can be recovered by turning this feature on.

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



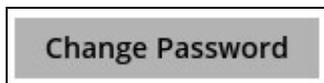
## Password

Login password can be modified anytime. Tick the [Save Password] box to bypass the password entry upon opening AhsayOBM.

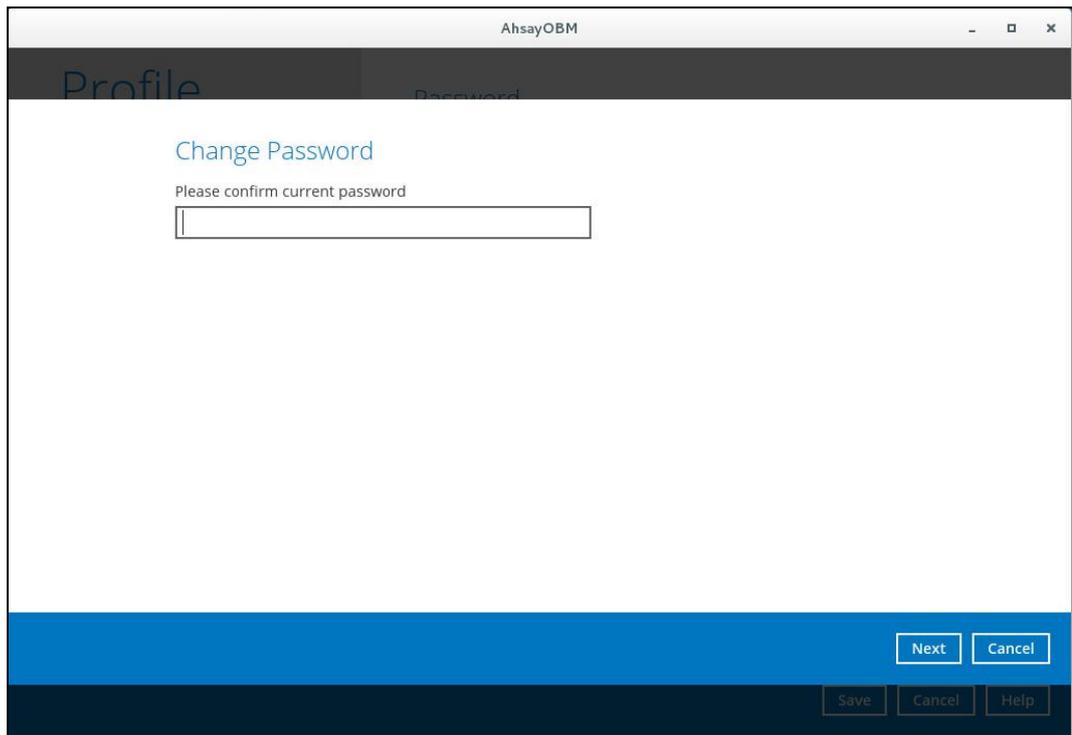


To modify the password, follow the instructions below:

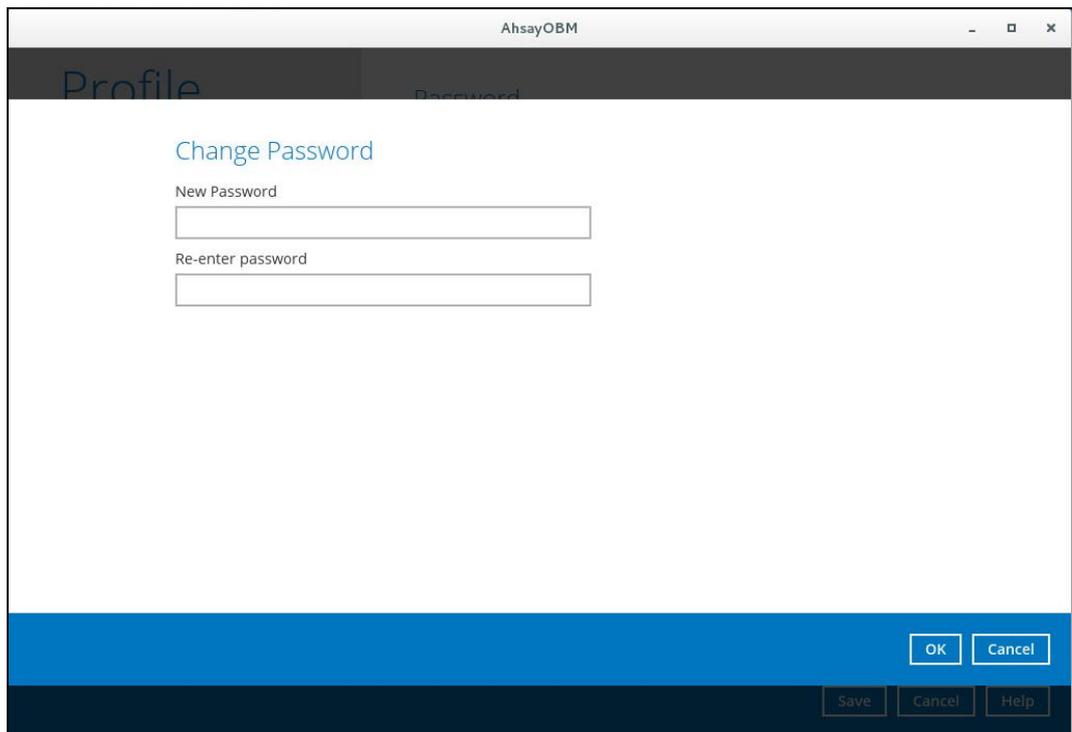
1. Click the [Change Password].



2. Enter the current password



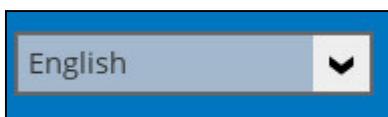
3. Enter the New Password and re-enter the new password then click the [OK] button to return to the main screen.



4. Click the [Save] button to store the updated password.

## Language

The list of available languages depends on the backup service provider.



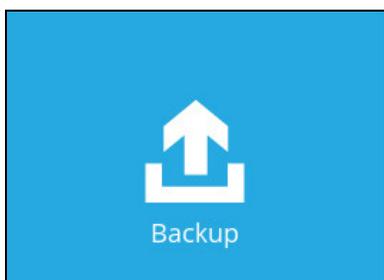
## Information

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



## Backup

This feature is used to run the backup set/s.



To start backing up, follow the instructions on [Chapter 8 Running Backup Jobs](#).

## 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 an entire folder to backup. It is also used to delete backup set/s.



To create or modify a backup set, follow the instructions on [Chapter 6 Creating a File Backup Set](#).

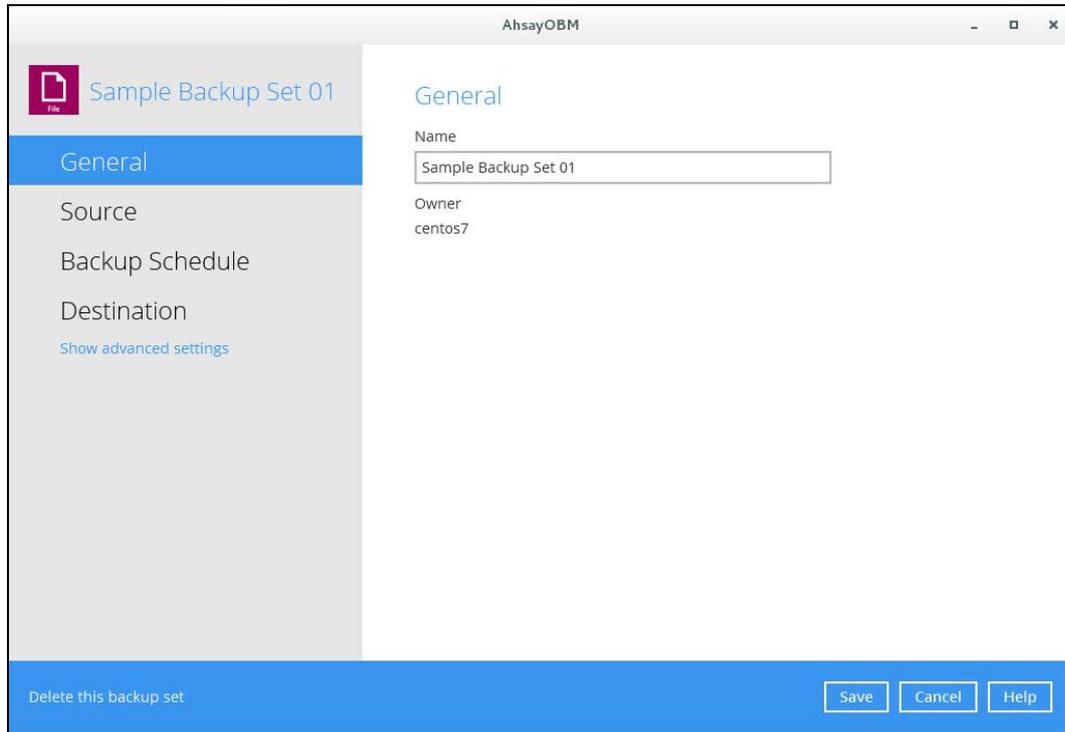
### Backup Set Settings

Below is the list of configurable items under the Backup Sets:

- General
- Source
- Backup Schedule
- Destination
- In-File Delta
- Retention Policy
- Command Line Tool
- Reminder
- Bandwidth Control
- Others

## General

This allows the user to modify the name of the backup set.



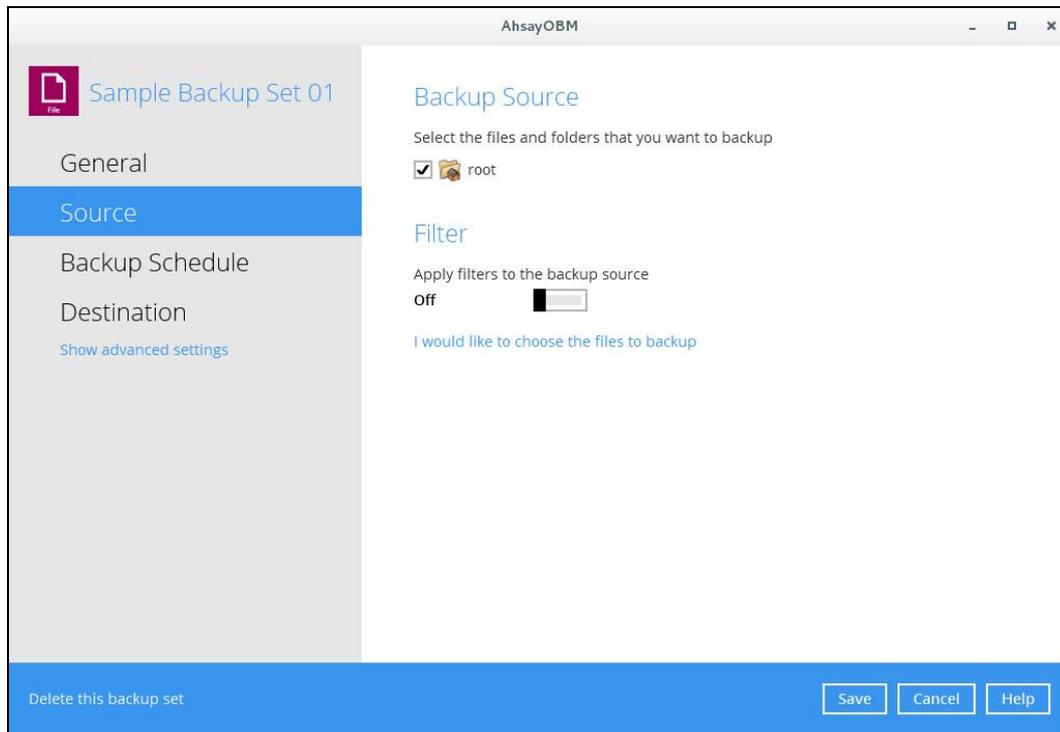
The screenshot shows a window titled "AhsayOBM" with a sidebar on the left and a main content area on the right. The sidebar contains a header "Sample Backup Set 01" with a file icon, and a list of settings: "General" (highlighted in blue), "Source", "Backup Schedule", "Destination", and a link "Show advanced settings". The main content area is titled "General" and contains two fields: "Name" with a text input field containing "Sample Backup Set 01", and "Owner" with the text "centos7". At the bottom of the window, there is a blue bar with the text "Delete this backup set" on the left and three buttons: "Save", "Cancel", and "Help" on the right.

To modify the backup set name, follow the instructions below:

1. Enter the new backup set name on the Name field.
2. Click the [Save] button to save the new backup set name.

## Source

This allows the user to select the files and/or folders that they would like to backup. To know more about filtering, please check this document [AhsayOBM v7 Backup Source File Filter Guide](#).

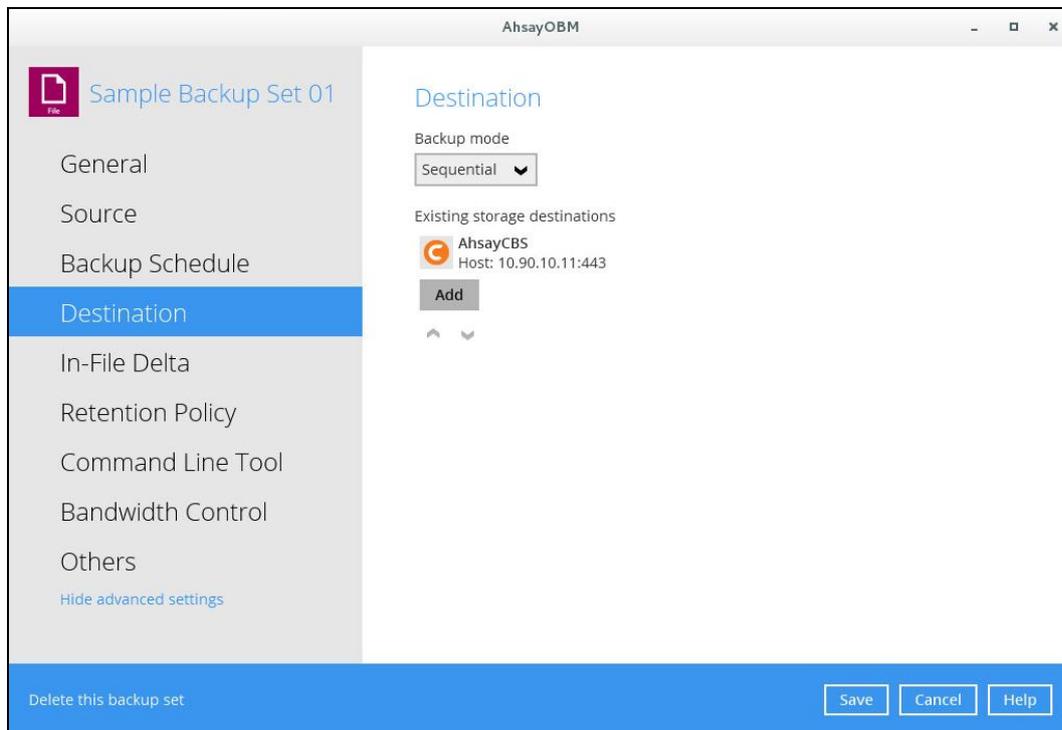


## Backup Schedule

This allows the user to assign a backup schedule for the backup job to run automatically. For more details on how to configure a backup schedule, follow the instructions on [Chapter 8 Configure Backup Schedule for Automated Backup](#).

## Destination

This allows the user to view the current backup mode and existing storages and add additional storage destinations.



## In-File Delta

This allows the user to select from the drop-down list: Differential or Incremental backup. Click the Show advanced settings to view the advanced configurations of the in-file delta settings.

The screenshot shows the 'In-File Delta' settings window in AhsayOBM. The left sidebar lists various settings categories: General, Source, Backup Schedule, Destination, In-File Delta (selected), Retention Policy, Command Line Tool, Bandwidth Control, and Others. The main content area is titled 'In-File Delta' and contains the following options:

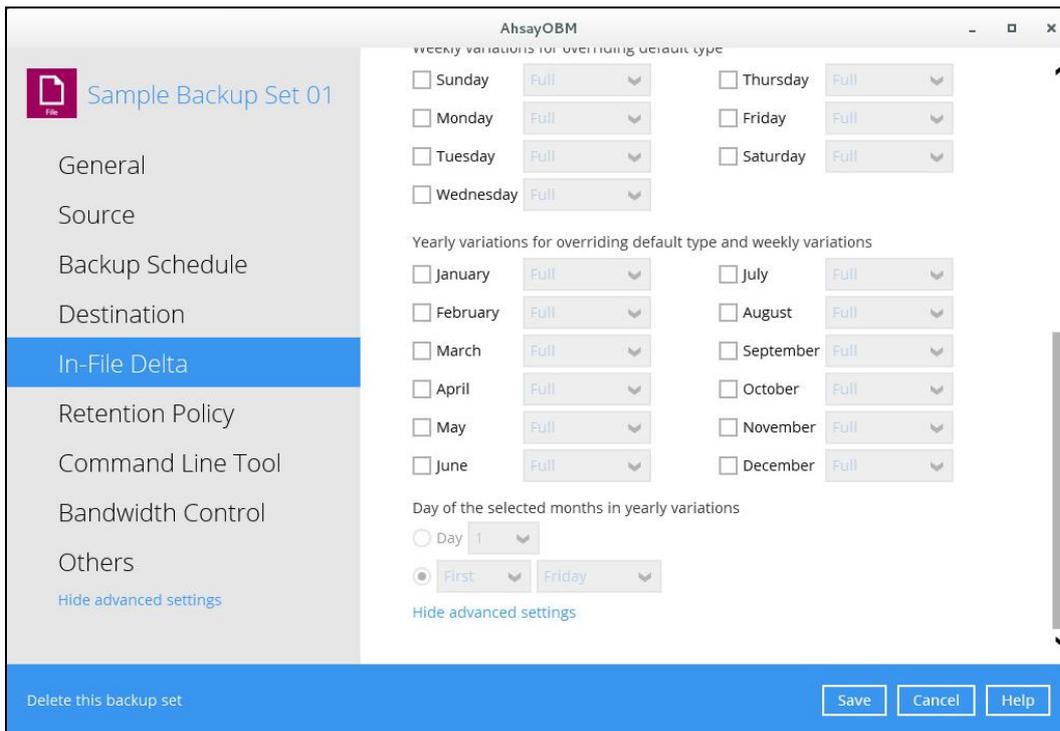
- Enable In-File Delta incremental / differential backup: On (toggle switch)
- Default type: Incremental (dropdown menu)
- Show advanced settings (link)

At the bottom of the window, there is a blue bar with the text 'Delete this backup set' on the left and 'Save', 'Cancel', and 'Help' buttons on the right.

This screenshot shows the same 'In-File Delta' settings window but with the 'Show advanced settings' link clicked, revealing more configuration options:

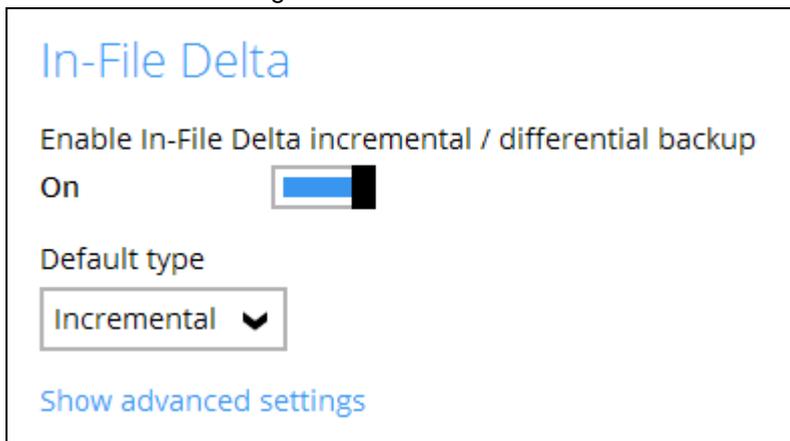
- Default type: Incremental (dropdown menu)
- In-File Delta block size: Auto (dropdown menu) Bytes
- Only apply In-File Delta to files larger than: 25 (input field) MB
- Upload full file when either of these conditions is met:
  - Number of deltas is over 100 (dropdown menu)
  - Delta ratio (delta file size / full file size) is over 50 (dropdown menu)
  - Failed to generate delta file
- Weekly variations for overriding default type:
  - Sunday Full (dropdown menu)
  - Thursday Full (dropdown menu)
  - Monday Full (dropdown menu)
  - Friday Full (dropdown menu)

The bottom bar remains the same, with 'Delete this backup set' and 'Save', 'Cancel', and 'Help' buttons.



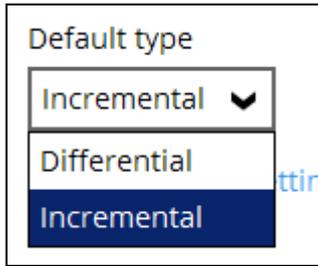
To configure the in-file delta settings, follow the instructions below:

1. Slide the lever to the right to enable the In-File Delta.

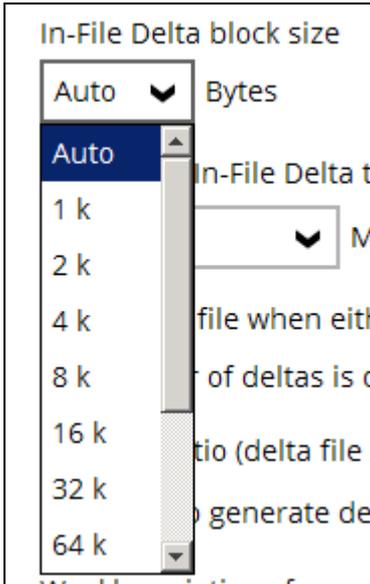


2. Select the type, whether Incremental or Differential.

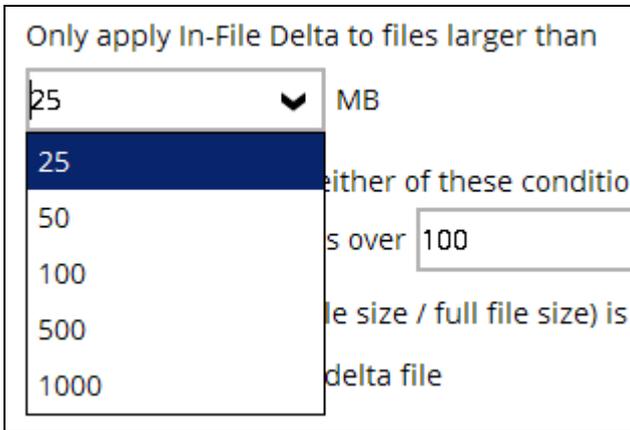
- Incremental – delta is generated by comparing with the last uploaded full or delta file. This type uses the least bandwidth and is smaller in size. For restoration, the full file and all delta chains up to the required point-in-time are required to be restored and merged.
- Differential – delta is generated by comparing the last uploaded full file only. This type will use more bandwidth and grow daily. For restoration, the full file and only a single delta is required to be restored and merged.



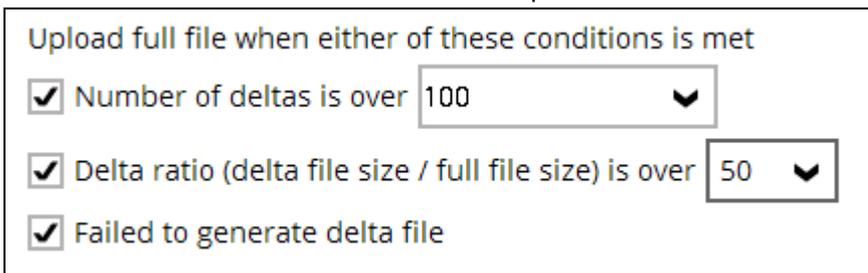
3. Click [Show advanced settings] if you want to configure the advanced settings.
4. Select the In-File Delta block size.



5. Select the file size where it will be applied.



6. Check to determine when the full file will be uploaded.



7. Select the day of the week when default type will be overridden.

Weekly variations for overriding default type

<input checked="" type="checkbox"/> Sunday	Full	<input type="checkbox"/> Thursday	Full
<input type="checkbox"/> Monday	Full	<input type="checkbox"/> Friday	Full
<input type="checkbox"/> Tuesday	Differential	<input type="checkbox"/> Saturday	Full
<input type="checkbox"/> Wednesday	Incremental		
	Full		

8. Select the month, week and day when default type will be overridden.

Yearly variations for overriding default type and weekly variations

<input checked="" type="checkbox"/> January	Full	<input type="checkbox"/> July	Full
<input type="checkbox"/> February	Full	<input type="checkbox"/> August	Full
<input type="checkbox"/> March	Full	<input type="checkbox"/> September	Full
<input type="checkbox"/> April	Full	<input type="checkbox"/> October	Full
<input type="checkbox"/> May	Full	<input type="checkbox"/> November	Full
<input type="checkbox"/> June	Full	<input type="checkbox"/> December	Full

Day of the selected months in yearly variations

Day 1

First

Hide advanced settings

Friday

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

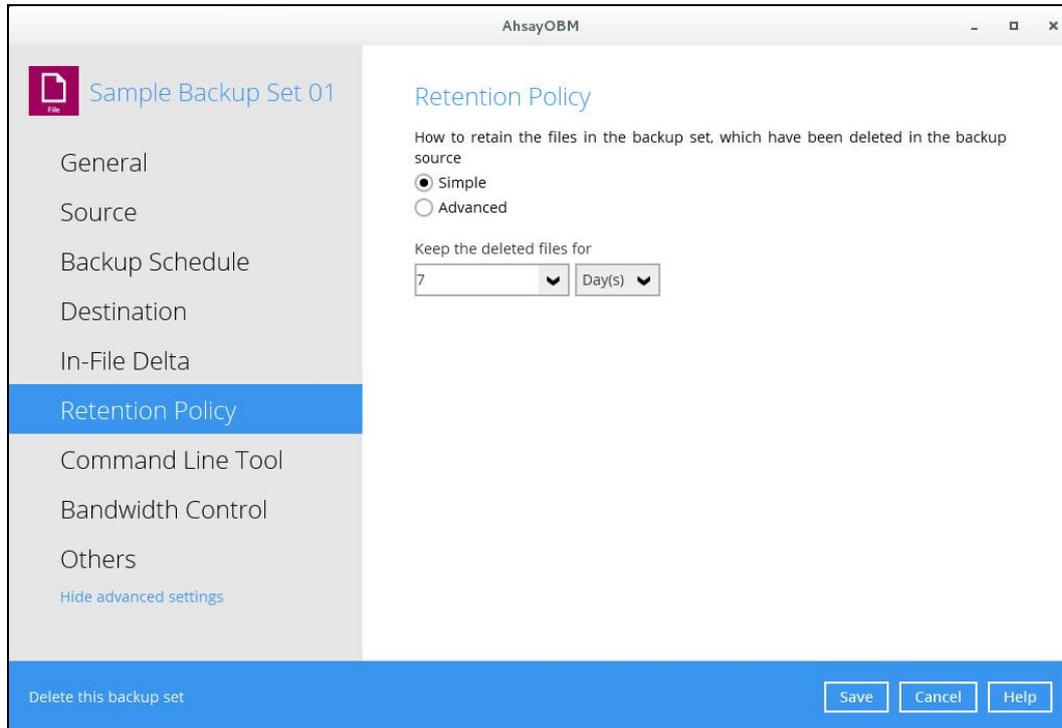
Saturday

Weekday

Save Cancel

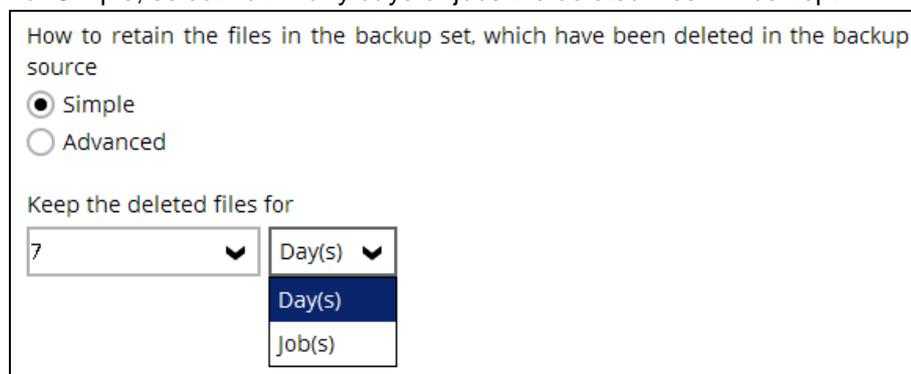
## Retention Policy

This allows the user to retain the deleted files based on the selected retention type policy.

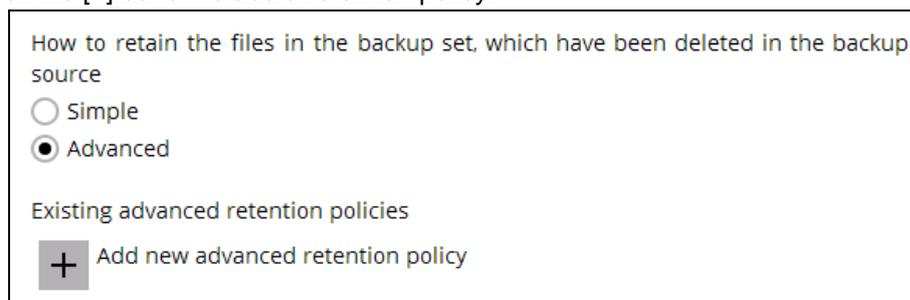


To configure the retention policy, follow the instructions below:

1. Select how to retain the files, whether Simple or Advanced.
  - a. For Simple, select how many days or jobs the deleted files will be kept.



- b. For Advanced, configure according to your preferred settings.
      - i. Click the [+] button to add a retention policy.



ii. Specify the Name.

Name

Daily-1

Type

Daily

Daily

Weekly

Monthly

Quarterly

Yearly

Custom

iii. Select the Type.

- Daily – select the number of days

Type

Daily

The past number of days on which different versions of your files are retained

1

- Weekly – select the day and number of weeks

Type

Weekly

The days within a week on which different versions of your files are retained

Sun  Mon  Tue  Wed  Thu  Fri  Sat

The number of weeks to repeat the above selection

1

- Monthly – select the day or combination of day and week in a month and number of months

Type

Monthly

The day within a month on which different versions of your files are retained

Day 1

First Sunday

The number of months to repeat the above selection

1

- Quarterly – select the day or combination of day and week in a month, months of quarter and number of quarters

Type

Quarterly

The day within a quarter on which different versions of your files are retained

Day 1

First Sunday

Months of quarter

January, April, July, October

The number of quarters to repeat the above selection

1

- Yearly – select the month, day in a month or combination of day and week in a month or week and day in a month and number of years

Type

Yearly

The day within a year on which different versions of your files are retained

January

Day 1

First Sunday

Sunday of Week 1

The number of years to repeat the above selection

1

- Custom – select the month, day in a month or combination of day and week in a month or week and day in a month and year

Type

Custom

A specific day on which different versions of your files are retained

January

Day 1

First Sunday

Sunday of Week 1

Year

2019

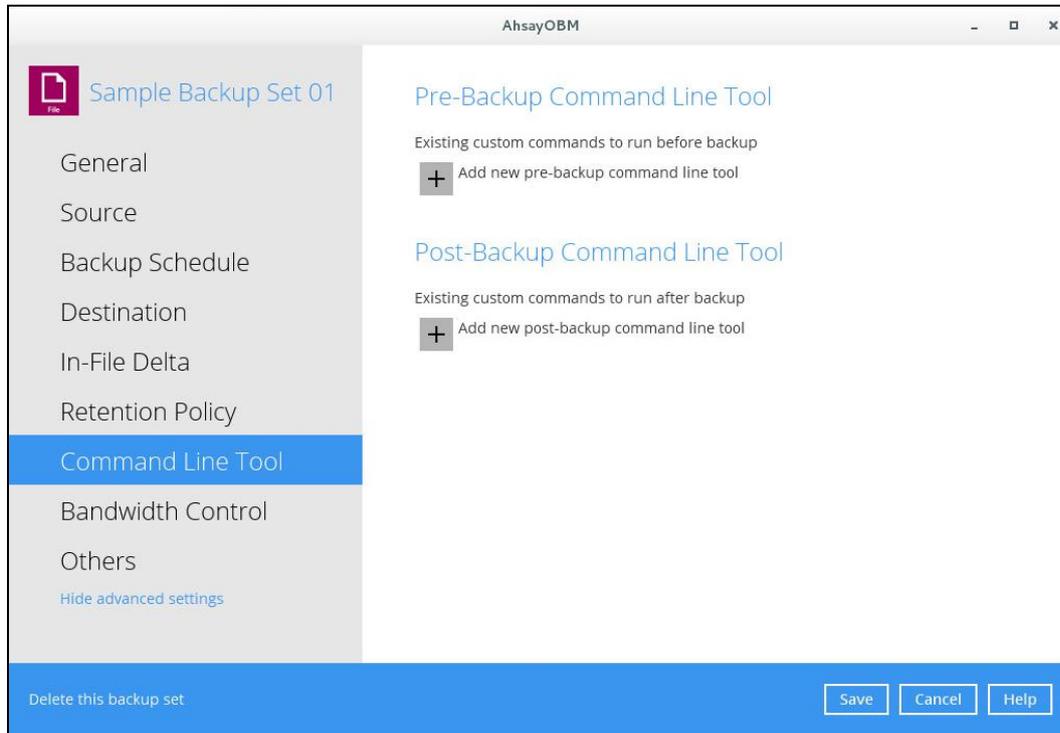
iv. Click [OK] to save the retention policy.

2. Click the [Save] button to save the settings.

## Command Line Tool

This allows the user to configure pre-backup or post backup command which can be; an operating system level command, a script or batch file, or third-party utilities to run before and after a backup job.

For example: connecting to a network drive and disconnecting a network drive, stopping a third-party database (not officially supported by Ahsay) to perform a cold backup and restarting a third-party database after the backup.



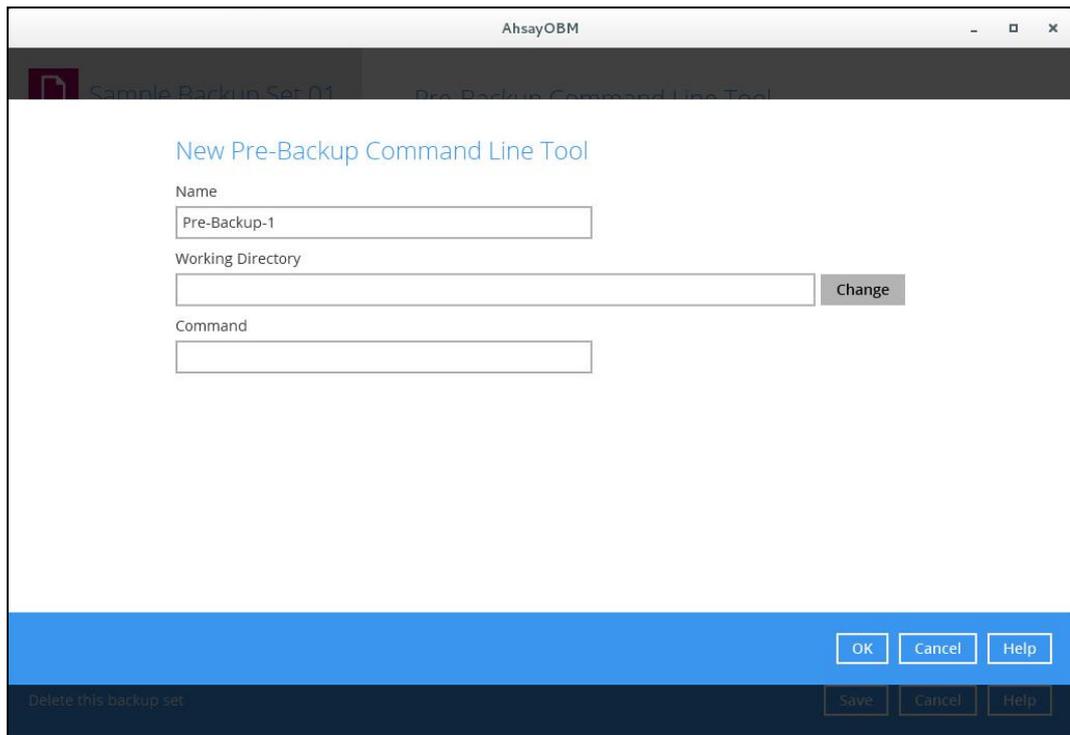
To add a pre-backup command line tool, follow the instructions below:

1. Click the [+] sign or add button.



2. Complete the following fields:

- Name
- Working Directory
- Command



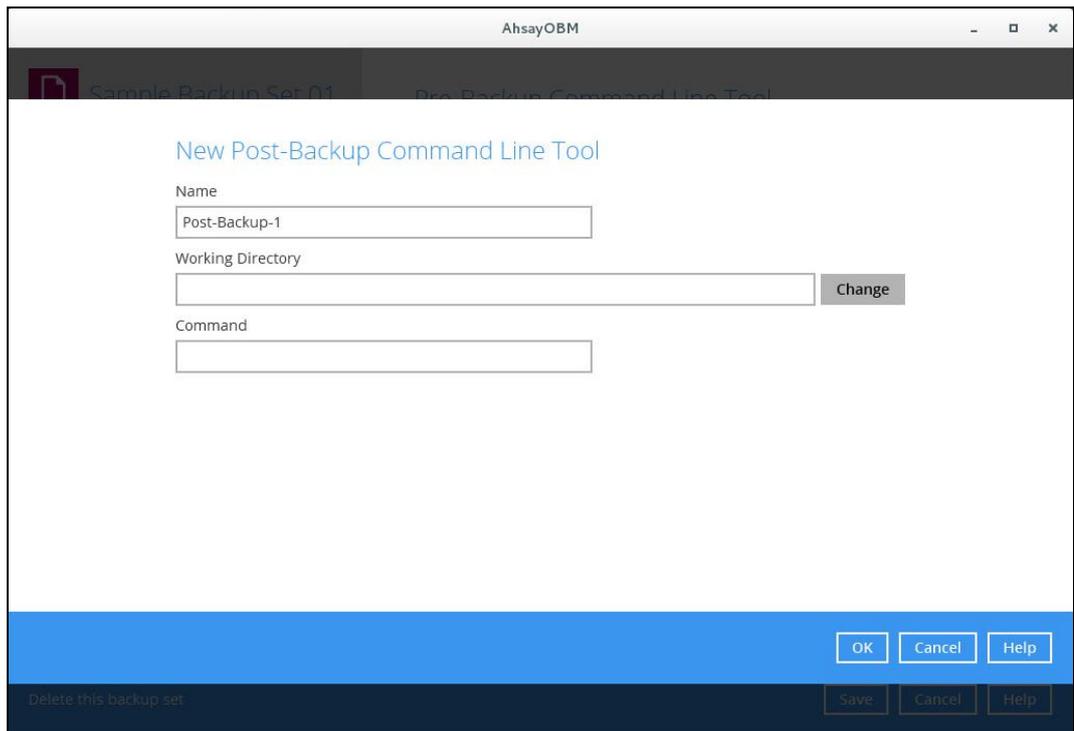
3. Click the [Change] button to select the working directory.
4. Click the [OK] button to save the setting.

To add a post-backup command line tool, follow the instructions below:

1. Click the [+] sign or add button.



2. Complete the following fields:
  - Name
  - Working Directory
  - Command



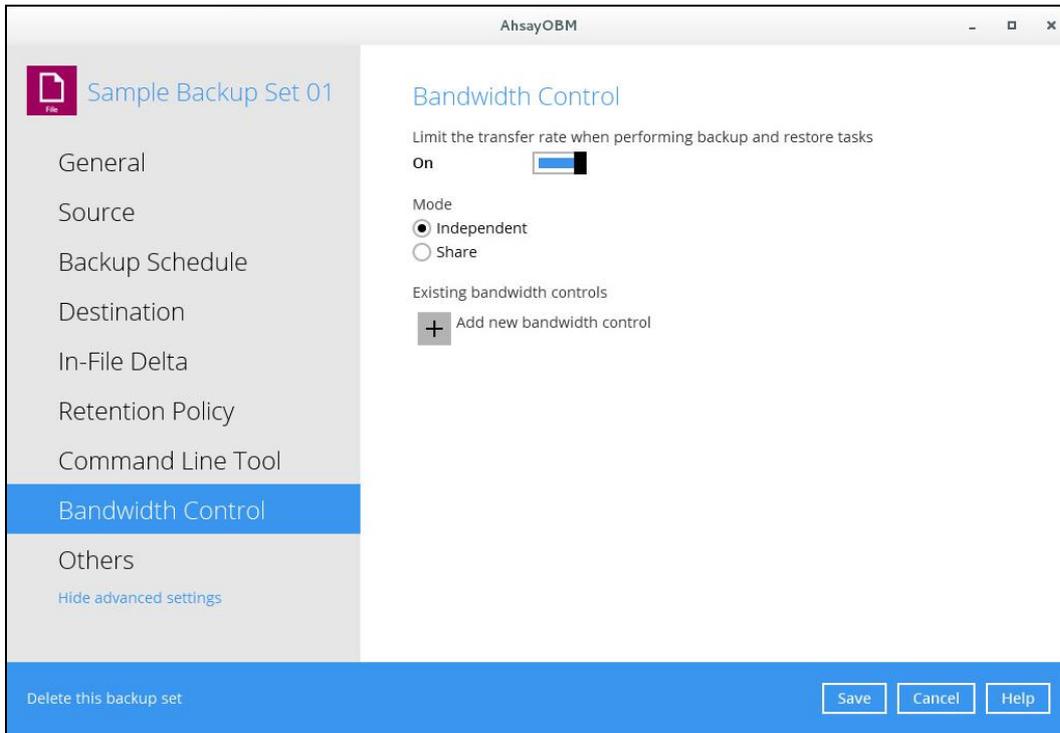
3. Click the [Change] button to select the working directory.
4. Click the [OK] button to save the setting.

## Bandwidth Control

This allows the user to limit the amount of bandwidth used by backup traffic between specified times. There are two (2) modes in assigning a bandwidth control.

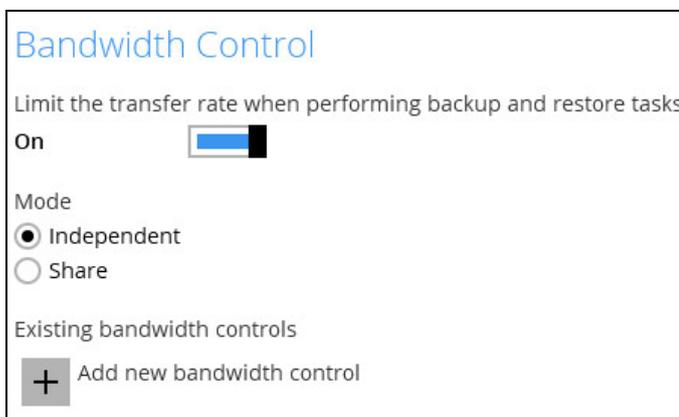
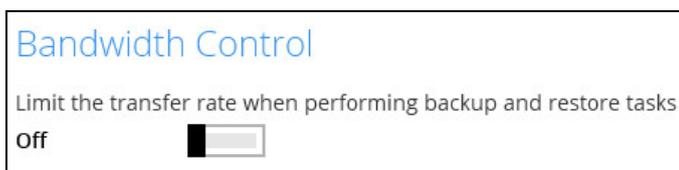
- Independent – each backup and restore has its assigned bandwidth
- Share – all backup and restore share the same assigned bandwidth.

Note: Share mode does not support performing of backup job on multiple destinations concurrently.



To enable, choose a mode, and add a bandwidth control, follow the instructions below:

1. Swipe the lever to the right to enable the bandwidth control.



2. Select a mode: Independent or Share.

Mode

Independent

Share

3. Click the [+] sign or add button.

Existing bandwidth controls

Add new bandwidth control

4. Complete the following fields:

- Name
- Type
- Maximum transfer rate

AhsayOBM

Sample Backup Set 01 Bandwidth Control

### New Bandwidth Control

Name  
Bandwidth Control-1

Type  
 Always  
 Only within this period

Maximum transfer rate  
100 Kibit/s

OK Cancel Help

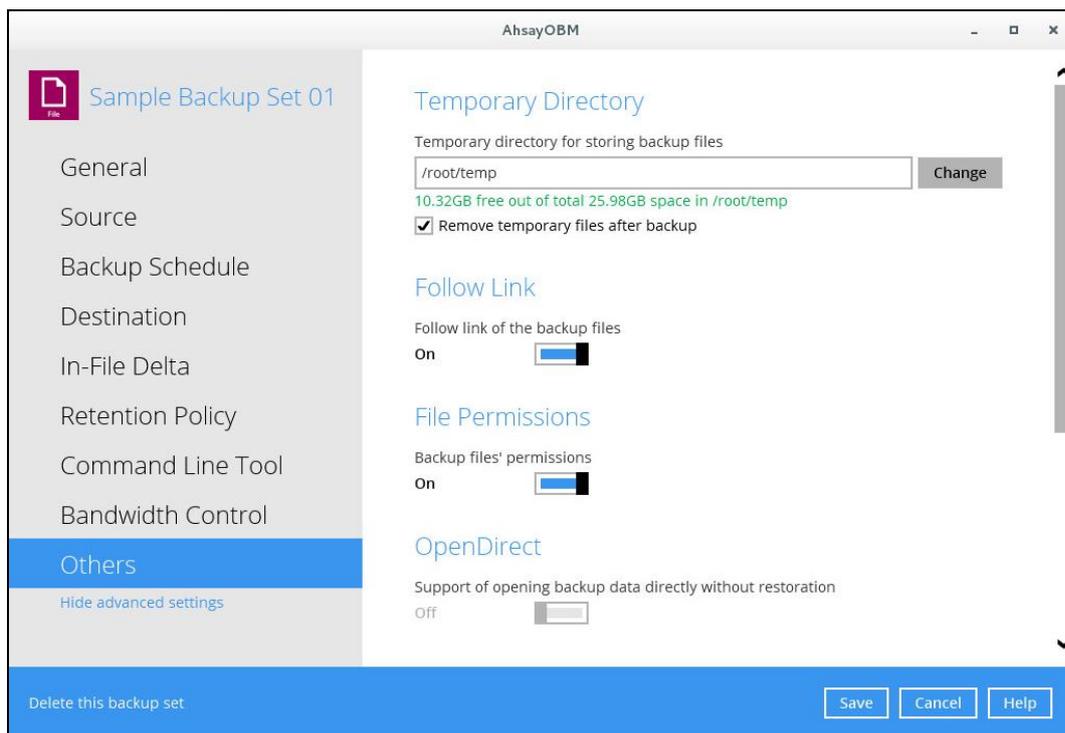
Delete this backup set. Save Cancel Help

5. Click the [OK] button to save the settings.

## Others

These are the list of other backup set settings that can be configured.

- Temporary Directory
- Follow Link
- File Permissions
- OpenDirect
- Compressions
- Encryption



## Temporary Directory

This allows the user to configure the temporary directory of spooled files, remote file list, and other temporary backup files.

### Temporary Directory

Temporary directory for storing backup files

10.32GB free out of total 25.98GB space in /root/temp

 Remove temporary files after backup

To configure the temporary directory, follow the instructions below:

1. Click the [Change] button to select a directory path for storing the temporary data.
2. You also have an option to check or uncheck the [Remove temporary files after backup].
3. Click the [Save] button to save the settings.

## Follow Link

This allows the user to enable or disable the follow link which defines the NFS junction or linux symbolic link during backup.

### Follow Link

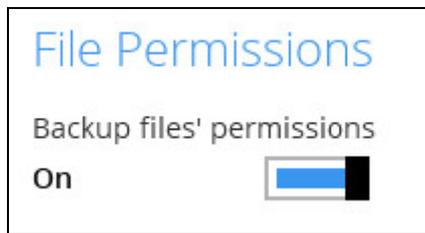
Follow link of the backup files

On

1. Slide the lever to the right to turn on the Follow Link option. Otherwise, slide to the left to turn it off.
2. Click the [Save] button to save the settings.

## File Permissions

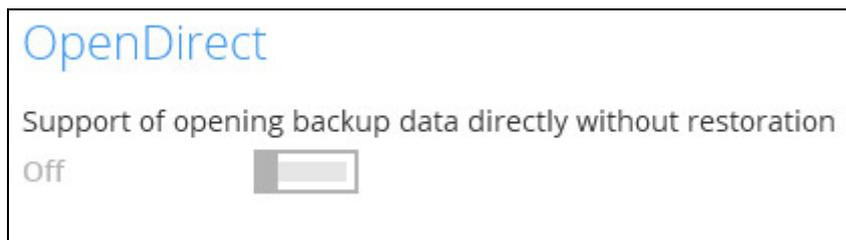
This allows the user to enable or disable the backup file permission which backs up the operating system file permission of the data selected as backup source.



1. Slide the lever to the right to turn on the File Permissions option. Otherwise, slide to the left to turn it off.
2. Click the [Save] button to save the settings.

## OpenDirect

This option is not supported in any Linux platform.



## Compressions

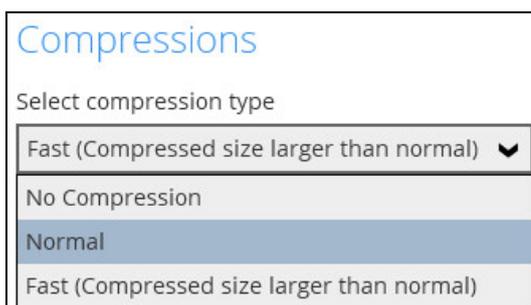
This allows the user to compress the data during backup job. There are three (3) compression types available:

- No Compression
- Normal
- Fast (Compressed size larger than normal)



To configure the compressions, follow the instructions below:

1. Click the drop-down list and select a compression type:



2. Click the [Save] button to save the settings.

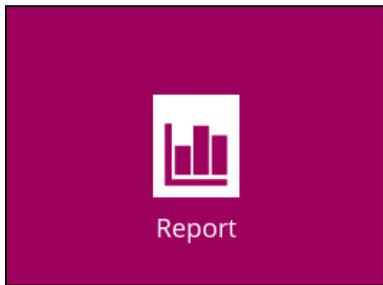
## Encryption

This allows the user to view the current encryption settings. For more details about the encryption, check [Chapter 6 Creating a File Backup Set](#).



## Report

This feature allows the user to view the backup and restore reports



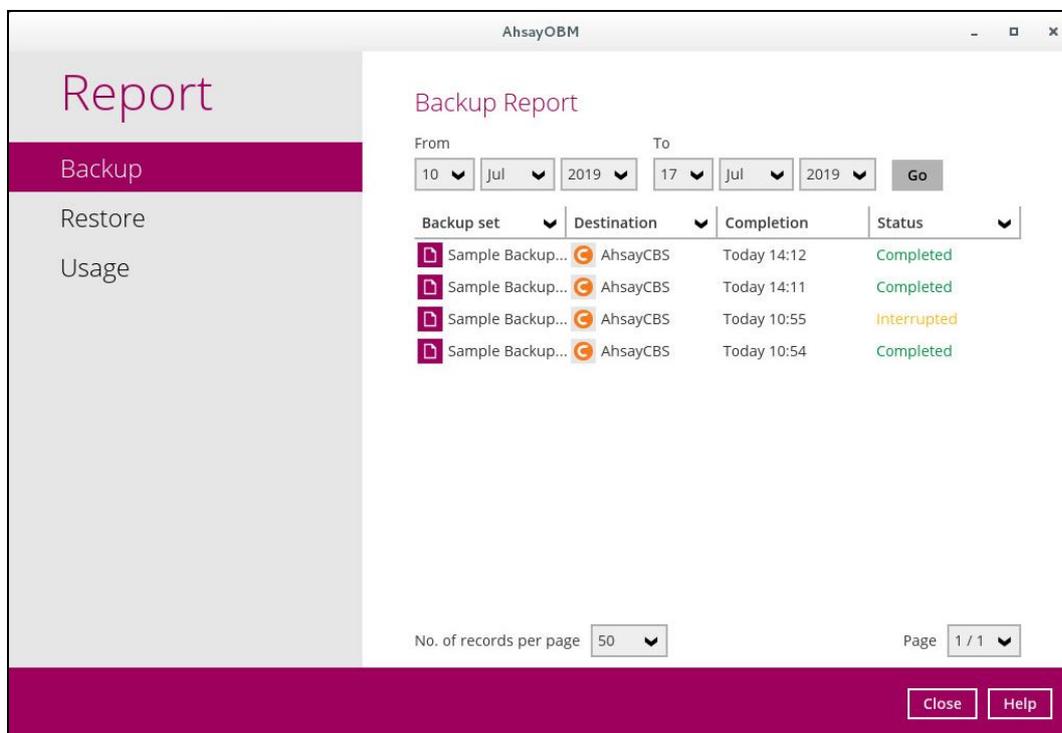
There are three (3) functions available for this feature:

- Backup
- Restore
- Usage

## Backup

This shows the backup reports. There are four (4) filters that can be applied on this feature:

- Date
- Backup Set
- Destination
- Status



Backup set	Destination	Completion	Status
Sample Backup...	AhsayCBS	Today 14:12	Completed
Sample Backup...	AhsayCBS	Today 14:11	Completed
Sample Backup...	AhsayCBS	Today 10:55	Interrupted
Sample Backup...	AhsayCBS	Today 10:54	Completed

You can filter and view the backup report using the Date filter.

AhsayOBM

# Report

- Backup
- Restore
- Usage

## Backup Report

From: 01 Jul 2019 To: 17 Jul 2019

Backup set	Destination	Completion	Status
Sample Backup Set 02	AhsayCBS	Today 14:12	Completed
Sample Backup Set 03	AhsayCBS	Today 14:11	Completed
Sample Backup Set 02	AhsayCBS	Today 10:55	Interrupted
Sample Backup Set 01	AhsayCBS	Today 10:54	Completed

No. of records per page: 50 Page: 1 / 1

You can filter and view the backup report using the Backup set filter.

The screenshot shows the AhsayOBM Backup Report interface. On the left, there is a navigation menu with 'Report' at the top, followed by 'Backup' (highlighted in purple), 'Restore', and 'Usage'. The main content area is titled 'Backup Report' and features a date range filter from '10 Jul 2019' to '17 Jul 2019' with a 'Go' button. Below the date filter is a table with columns: 'Backup set', 'Destination', 'Completion', and 'Status'. A dropdown menu is open over the 'Backup set' column, listing 'Backup set', 'Sample Backup Set 02', 'Sample Backup Set 03', and 'Sample Backup Set 01' (which is selected). The table data is as follows:

Backup set	Destination	Completion	Status
Backup set	AhsayCBS	Today 14:12	Completed
Sample Backup Set 02	AhsayCBS	Today 14:11	Completed
Sample Backup Set 03	AhsayCBS	Today 10:55	Interrupted
Sample Backup Set 01	AhsayCBS	Today 10:54	Completed

At the bottom of the report area, there is a 'No. of records per page' dropdown set to '50' and a 'Page' dropdown set to '1 / 1'. A purple footer bar contains 'Close' and 'Help' buttons.

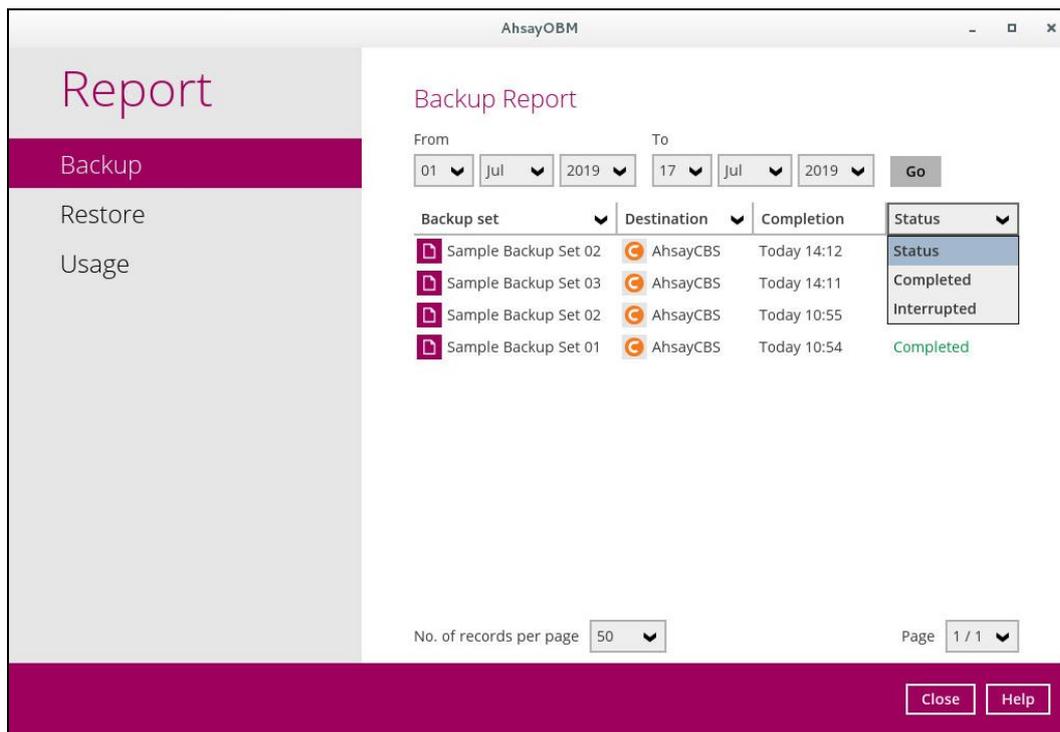
You can filter and view the backup report to your selected storage location using the Destination filter.

The screenshot shows the AhsayOBM Backup Report interface with the 'Destination' filter applied. The navigation menu is the same as in the previous screenshot. The date range filter is '10 Jul 2019' to '17 Jul 2019'. The 'Backup set' column dropdown is now closed, and the 'Destination' column dropdown is open, showing 'Destination', 'AhsayCBS' (selected), and 'AhsayCBS'. The table data is as follows:

Backup set	Destination	Completion	Status
Sample Backup Set 02	AhsayCBS	Today 14:12	Completed
Sample Backup Set 03	AhsayCBS	Today 14:11	Completed
Sample Backup Set 02	AhsayCBS	Today 10:55	Interrupted
Sample Backup Set 01	AhsayCBS	Today 10:54	Completed

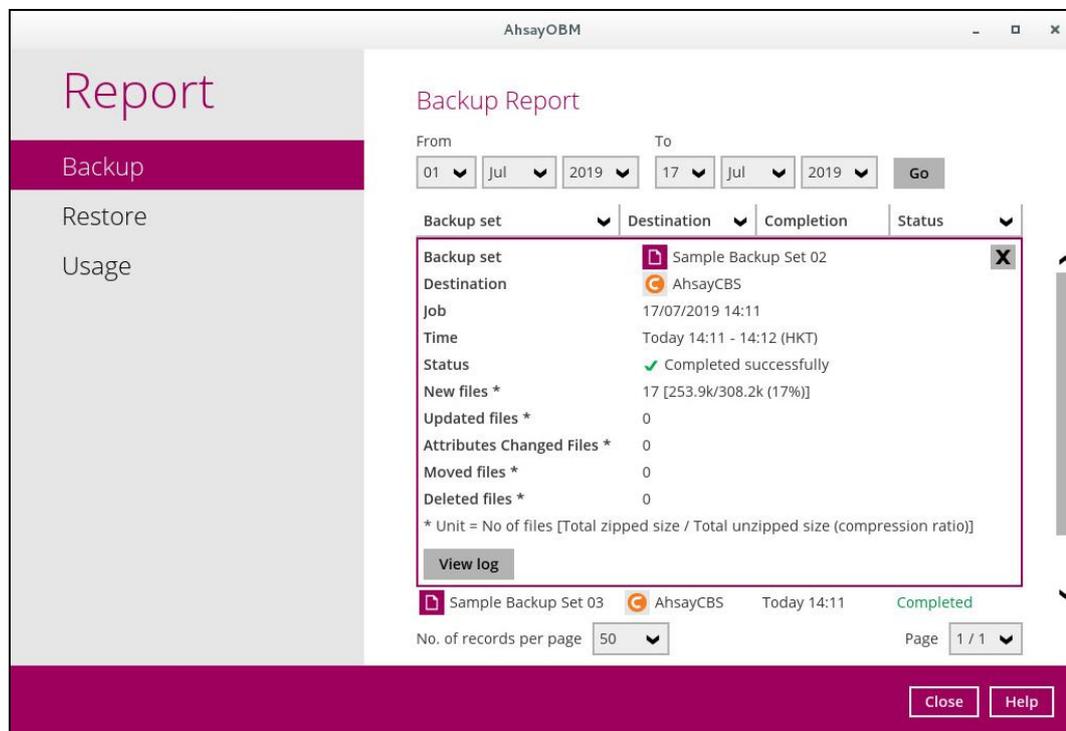
The 'No. of records per page' dropdown is set to '50' and the 'Page' dropdown is set to '1 / 1'. The purple footer bar contains 'Close' and 'Help' buttons.

You can filter and view the backup report with the same status using the Status filter.



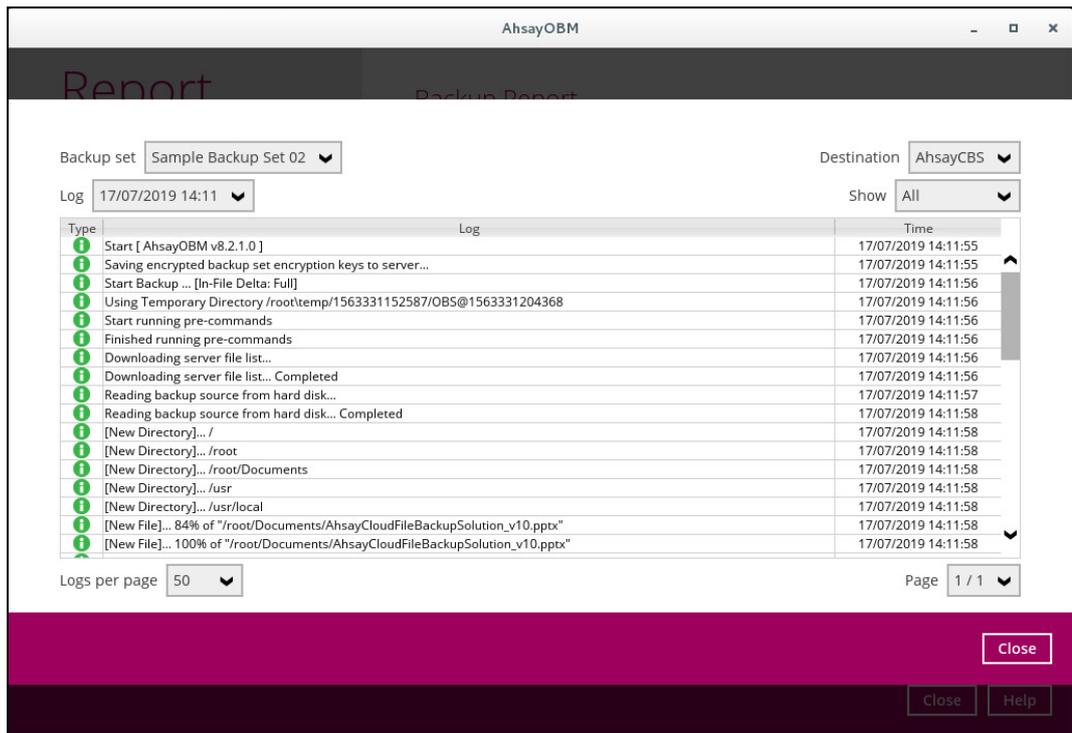
To view the backup log, follow the instructions below:

1. Select and click a backup report.



2. Click the [View log] button.

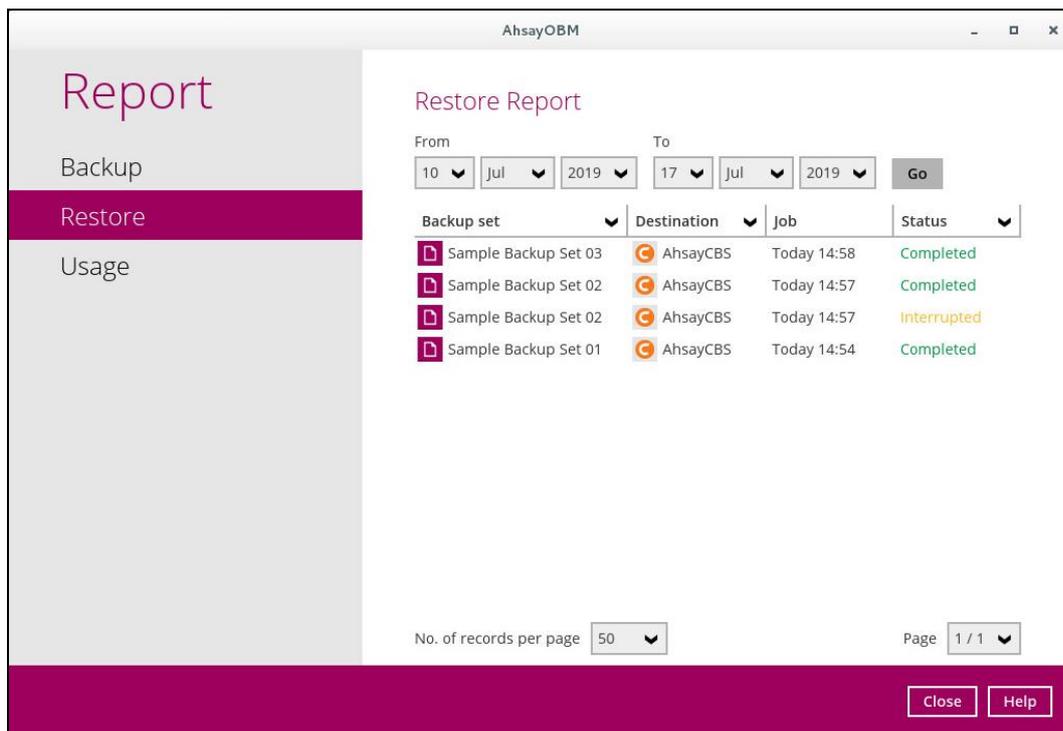
Backup set, Destination, Log Date and Time, and Status can also be filtered as well as the number of logs per page.



## Restore

This shows the restore reports. There are four (4) filters that can be applied on this feature:

- Date
- Backup Set
- Destination
- Status



You can filter and view the restore report using the Date filter.

The screenshot shows the AhsayOBM interface with the 'Report' section selected. The 'Restore Report' is displayed with a date filter applied. The 'From' date is 01 Jul 2019 and the 'To' date is 17 Jul 2019. The table below shows the restore jobs:

Backup set	Destination	Job	Status
Sample Backup Set 03	AhsayCBS	Today 14:58	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Interrupted
Sample Backup Set 01	AhsayCBS	Today 14:54	Completed

At the bottom, there are controls for 'No. of records per page' (set to 50) and 'Page' (1 / 1). Buttons for 'Close' and 'Help' are also present.

You can filter and view the restore report using the Backup set filter.

The screenshot shows the AhsayOBM interface with the 'Report' section selected. The 'Restore Report' is displayed with a backup set filter applied. The 'From' date is 01 Jul 2019 and the 'To' date is 17 Jul 2019. The table below shows the restore jobs:

Backup set	Destination	Job	Status
Backup set	AhsayCBS	Today 14:58	Completed
Sample Backup Set 03	AhsayCBS	Today 14:57	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Interrupted
Sample Backup Set 01	AhsayCBS	Today 14:54	Completed

At the bottom, there are controls for 'No. of records per page' (set to 50) and 'Page' (1 / 1). Buttons for 'Close' and 'Help' are also present.

You can filter and view the restore report to your selected storage location using the Destination filter.

The screenshot shows the AhsayOBM interface with the 'Report' section selected. The 'Restore Report' is displayed for the period from July 01, 2019, to July 17, 2019. The table is filtered by the 'Destination' column, showing only entries for 'AhsayCBS'. The table has four columns: Backup set, Destination, Job, and Status.

Backup set	Destination	Job	Status
Sample Backup Set 03	AhsayCBS	Today 14:58	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Interrupted
Sample Backup Set 01	AhsayCBS	Today 14:54	Completed

At the bottom of the report, there are controls for 'No. of records per page' (set to 50) and 'Page' (1 / 1). 'Close' and 'Help' buttons are located at the bottom right.

You can filter and view the restore report with the same status using the Status filter.

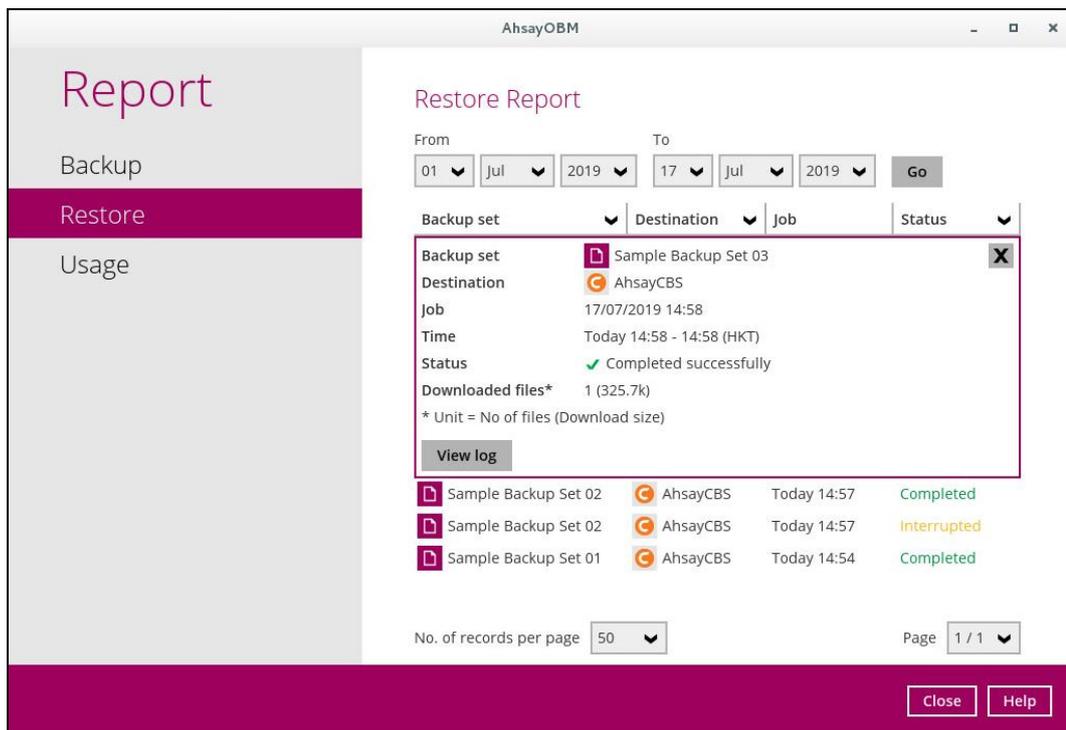
The screenshot shows the AhsayOBM interface with the 'Report' section selected. The 'Restore Report' is displayed for the period from July 01, 2019, to July 17, 2019. The table is filtered by the 'Status' column, showing only entries with a status of 'Completed'. The table has four columns: Backup set, Destination, Job, and Status.

Backup set	Destination	Job	Status
Sample Backup Set 03	AhsayCBS	Today 14:58	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Completed
Sample Backup Set 02	AhsayCBS	Today 14:57	Interrupted
Sample Backup Set 01	AhsayCBS	Today 14:54	Completed

At the bottom of the report, there are controls for 'No. of records per page' (set to 50) and 'Page' (1 / 1). 'Close' and 'Help' buttons are located at the bottom right.

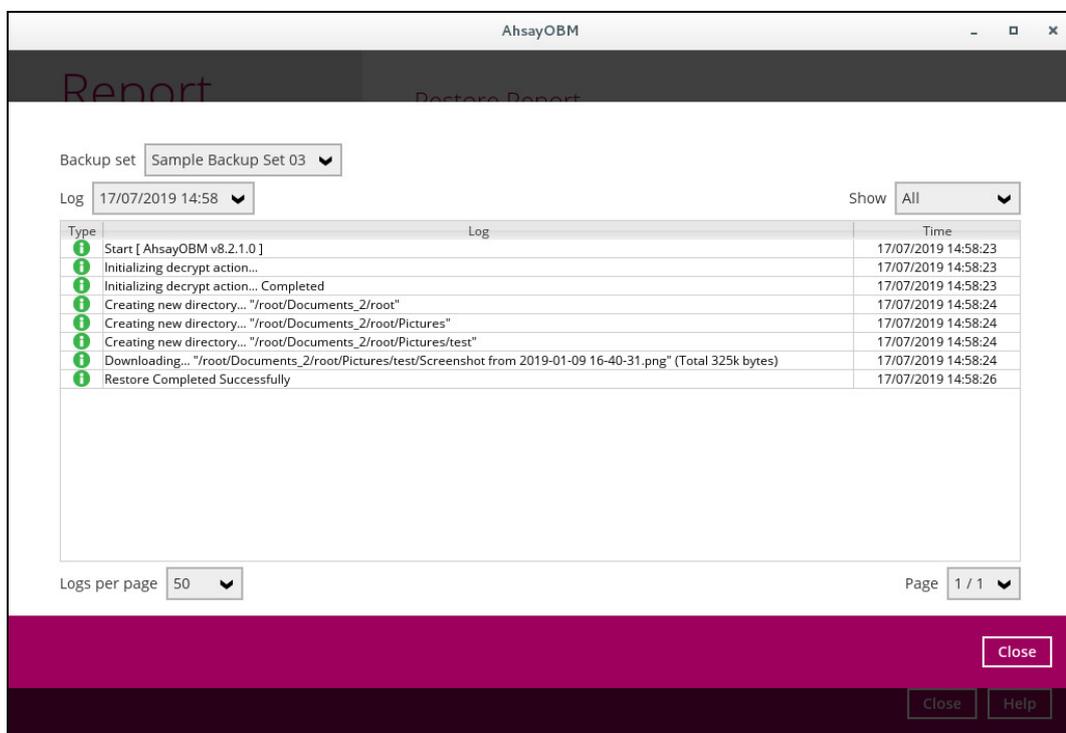
To view the restore log, follow the instructions below:

1. Select and click restore report.



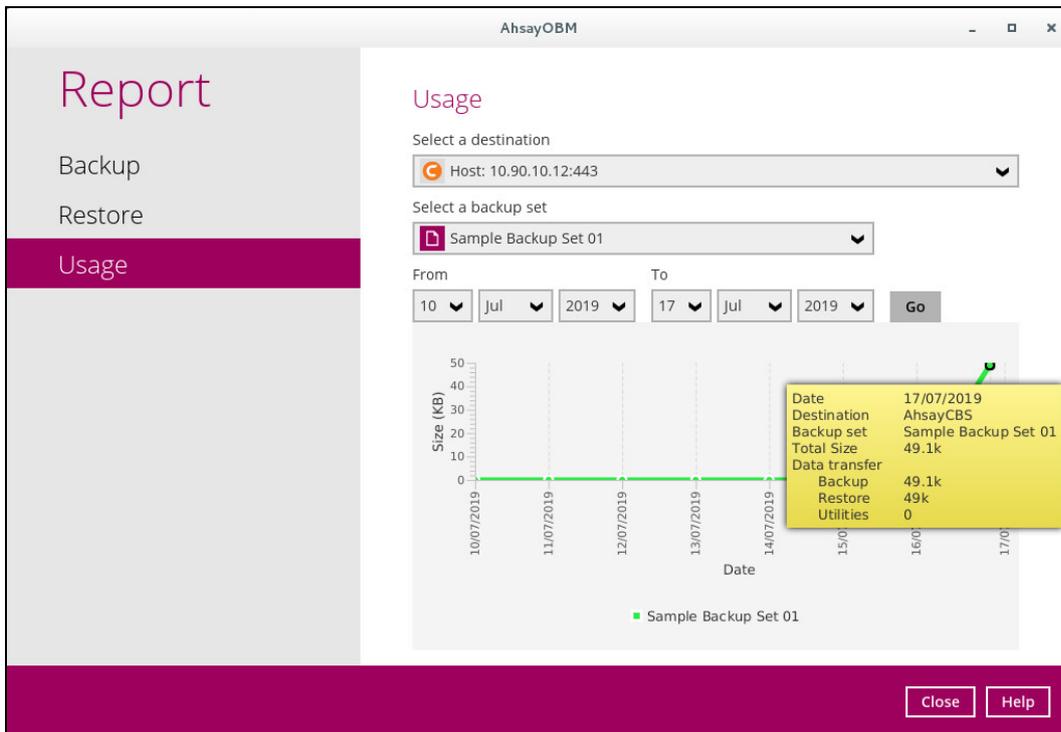
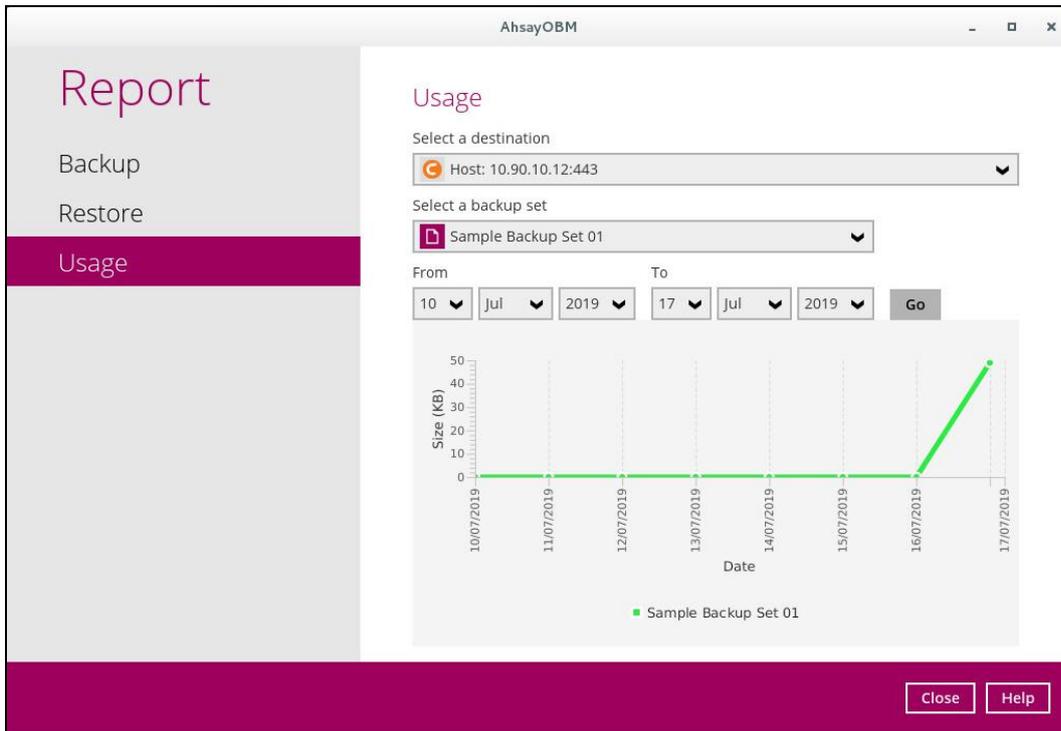
2. Click the [View log] button.

Backup set, Destination, Log Date and Time, and Status can also be filtered as well as the number of logs per page.



## Usage

This allows the user to generate and view the backup usage in a graphical view.



## Restore

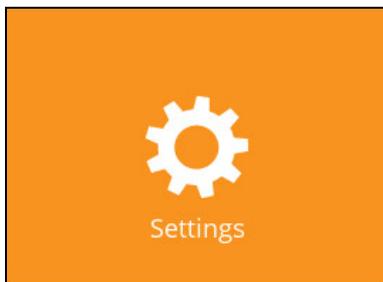
This feature is used to restore backed-up files to its original or alternate location.



To restore backed-up files, follow the instructions on [Chapter 9 Restoring Data](#).

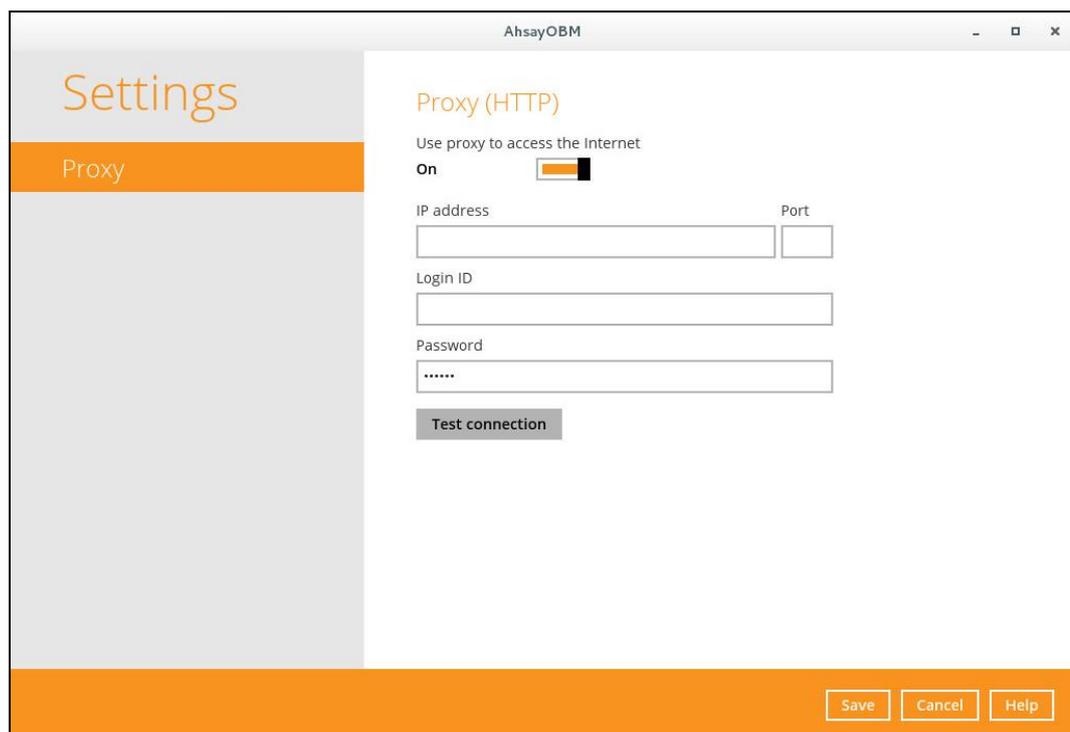
## Settings

This allows the user to enable the Proxy Settings.



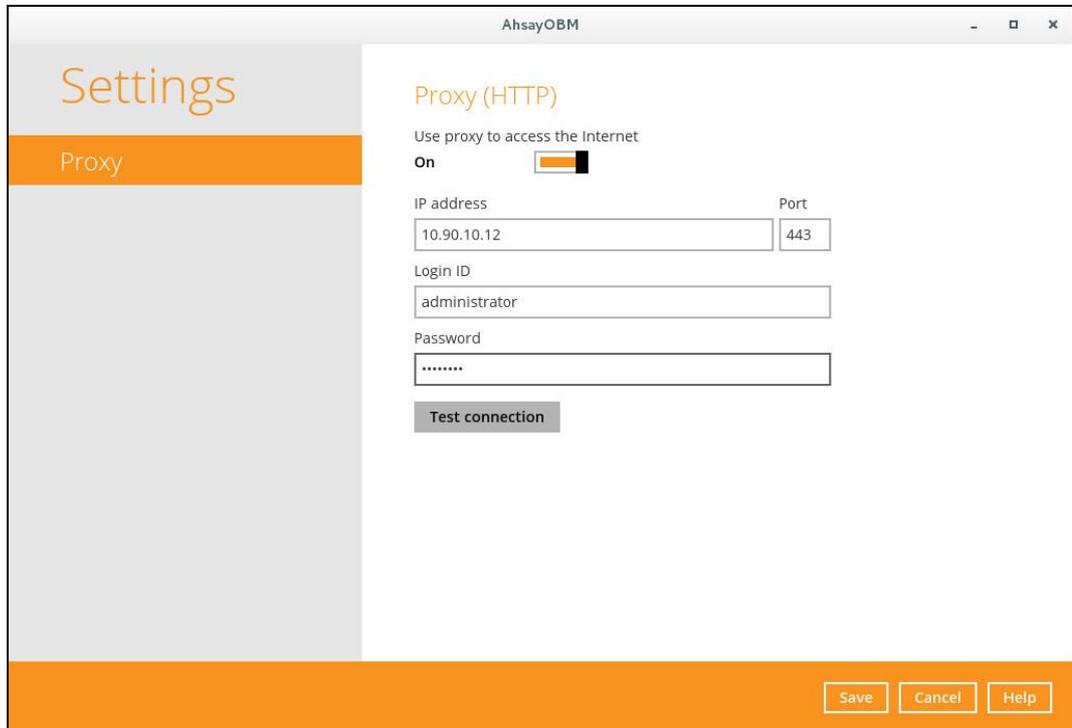
To enable the Proxy Settings, follow the instructions below:

1. Click the [Settings] module.
2. Slide the lever on the right to enable the Proxy Settings.



3. Complete the following fields:

- IP Address
- Port
- Login ID
- Password



AhsayOBM

## Settings

### Proxy

#### Proxy (HTTP)

Use proxy to access the Internet

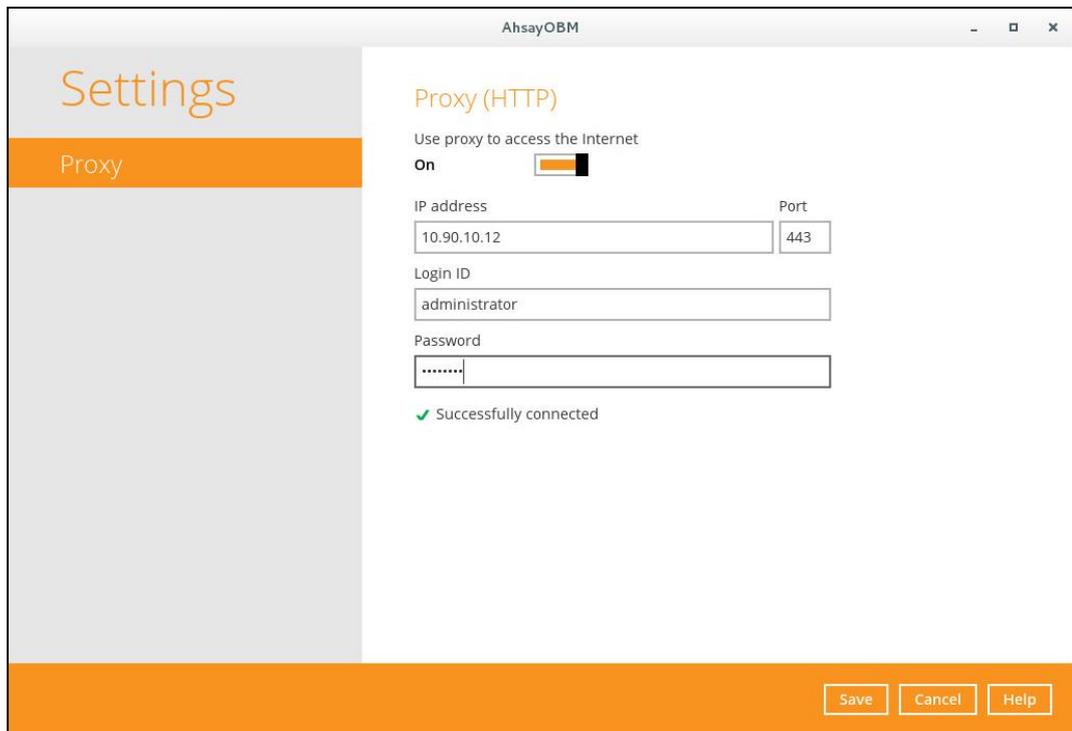
On

IP address: 10.90.10.12      Port: 443

Login ID: administrator

Password: .....

4. Click the [Test Connection] button to validate the connection.



AhsayOBM

## Settings

### Proxy

#### Proxy (HTTP)

Use proxy to access the Internet

On

IP address: 10.90.10.12      Port: 443

Login ID: administrator

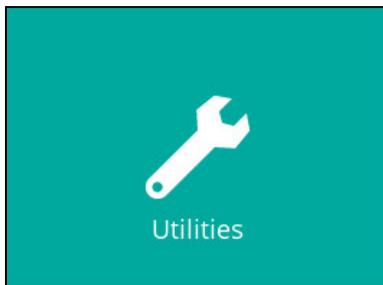
Password: .....

✓ Successfully connected

5. Click the [Save] button to store the settings.

## Utilities

This allows the user to perform health check on the backed-up data, free up storage from obsolete files, delete and decrypt backed-up data.



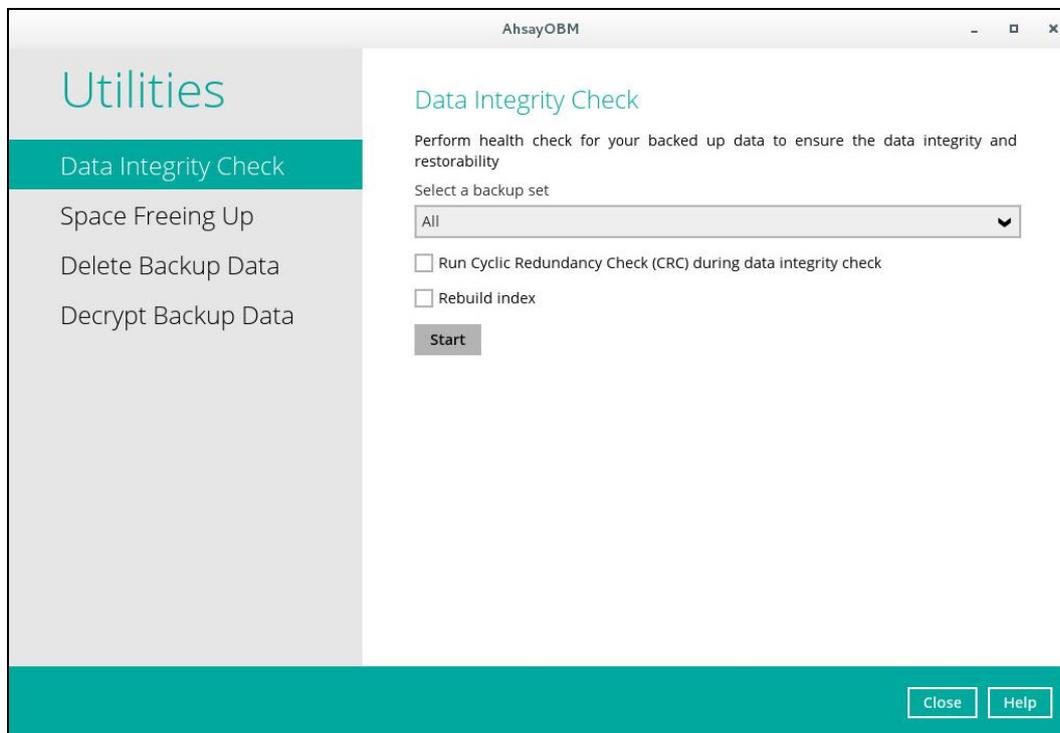
These are the four (4) options available for this feature:

- Data Integrity Check
- Space Freeing Up
- Delete Backup Data
- Decrypt Backup Data

### Data Integrity Check

This feature is used to identify and remove any corrupt file/s on the backup destination/s to ensure restorability.

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



To perform Data Integrity Check, follow the instructions below:

1. There are four (4) options in performing the Data Integrity Check:

Option #1

<input type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check
<input type="checkbox"/> Rebuild index
<input type="button" value="Start"/>

For checking the Index and Data

Option #2

<input checked="" type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check
<input type="checkbox"/> Rebuild index
<input type="button" value="Start"/>

For checking the Index and Integrity of the files against the checksum file generated at the time of the backup job.

Option #3

<input type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check
<input checked="" type="checkbox"/> Rebuild index
<input type="button" value="Start"/>

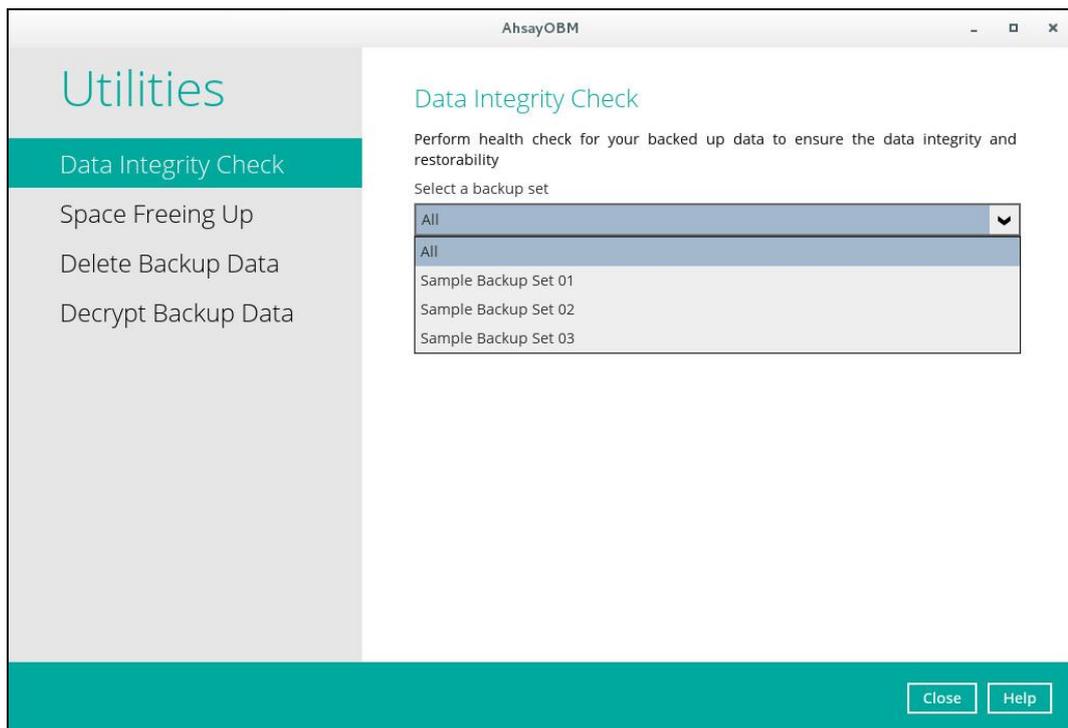
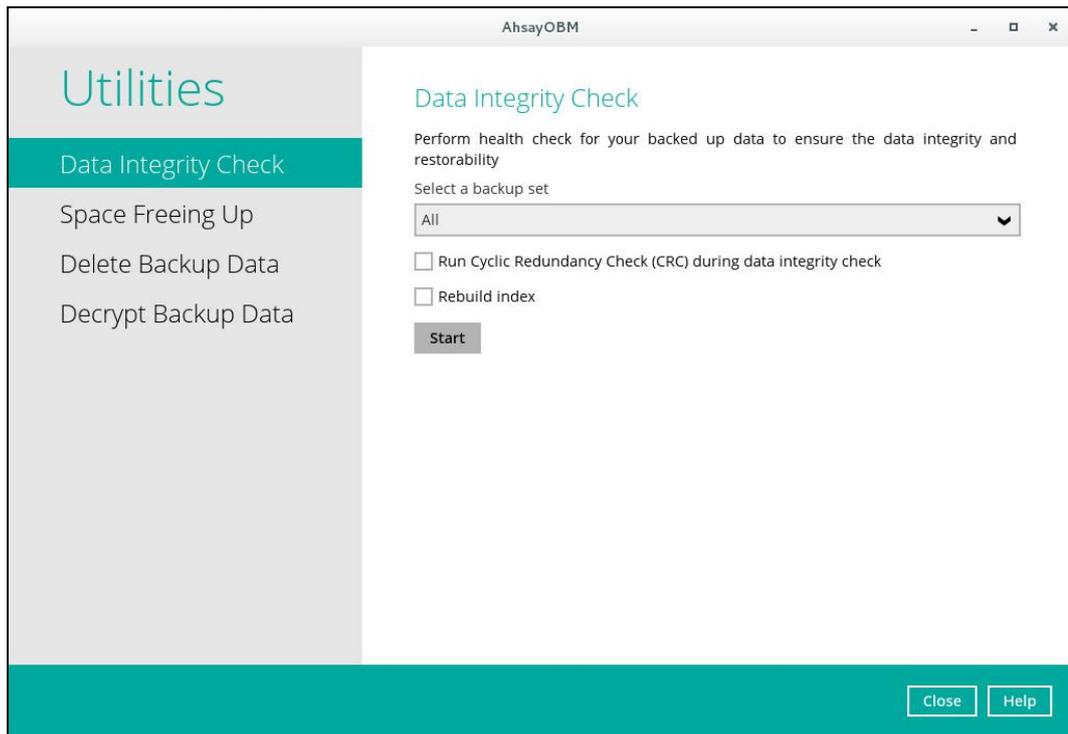
For checking the Index and rebuild the Index.

Option #4

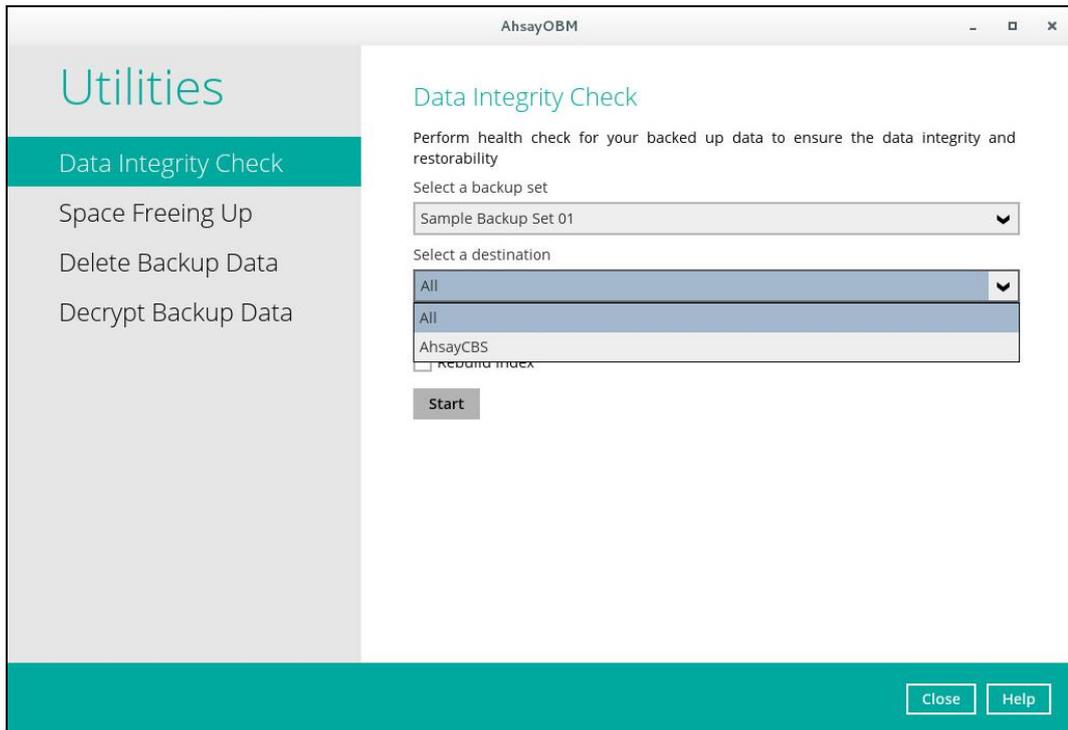
<input checked="" type="checkbox"/> Run Cyclic Redundancy Check (CRC) during data integrity check
<input checked="" type="checkbox"/> Rebuild index
<input type="button" value="Start"/>

For checking the Index and Integrity of the files against the checksum file generated at the time of the backup job and rebuild Index.

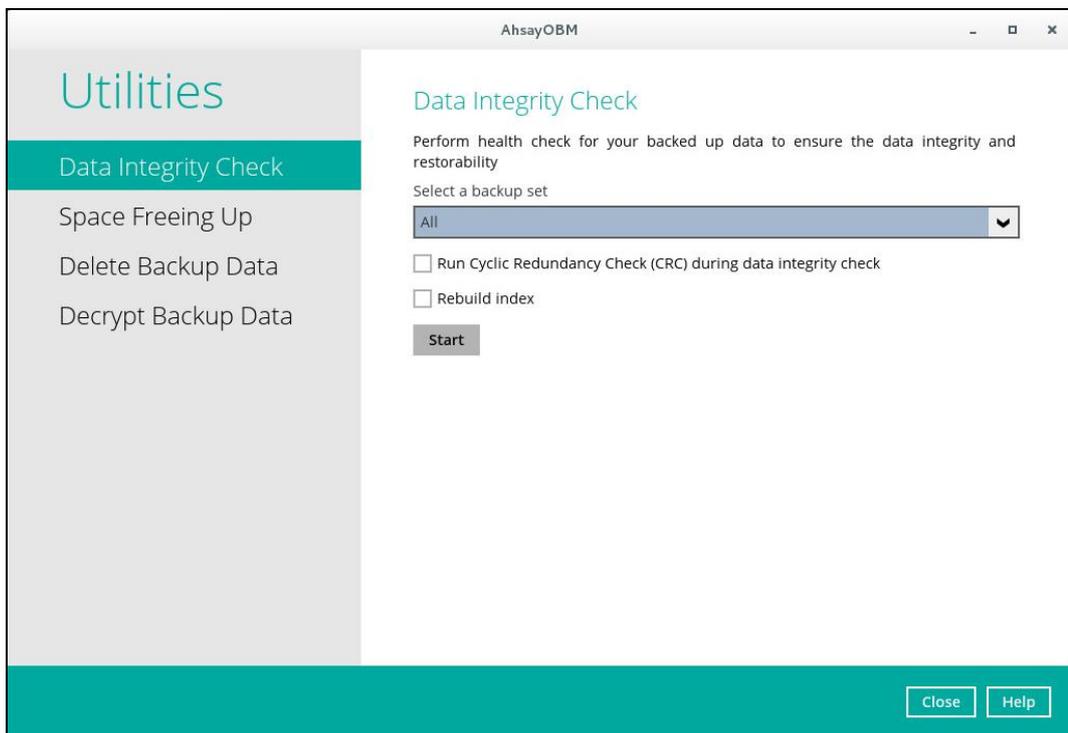
2. Select a backup set from the drop-down list.



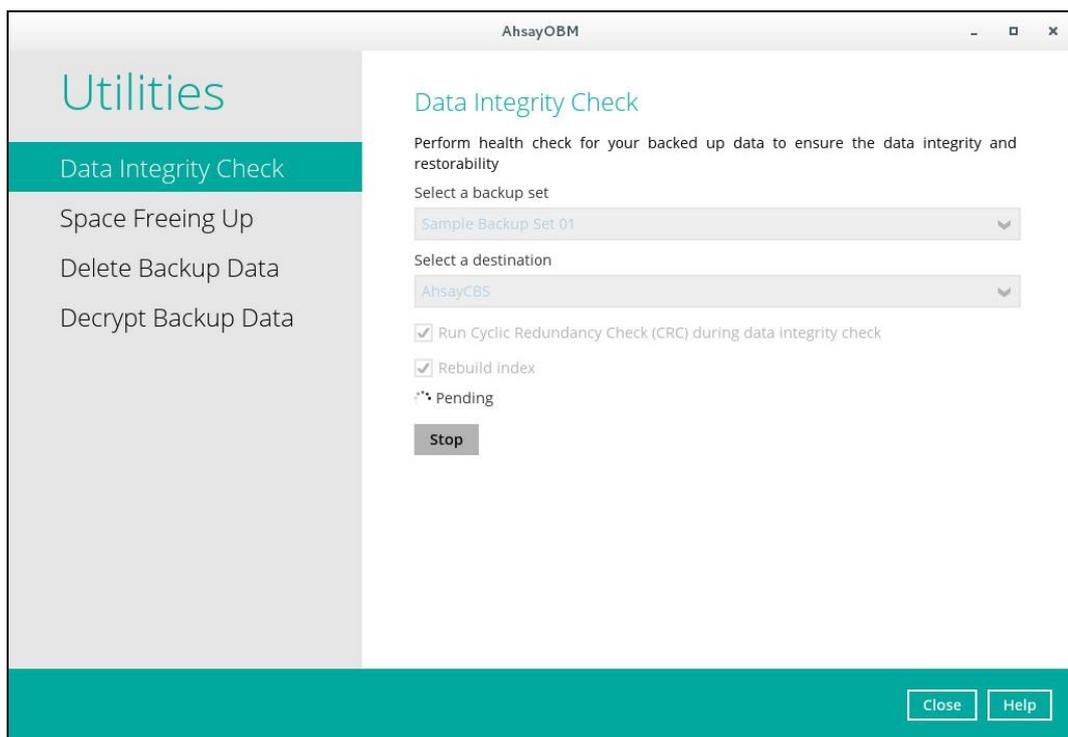
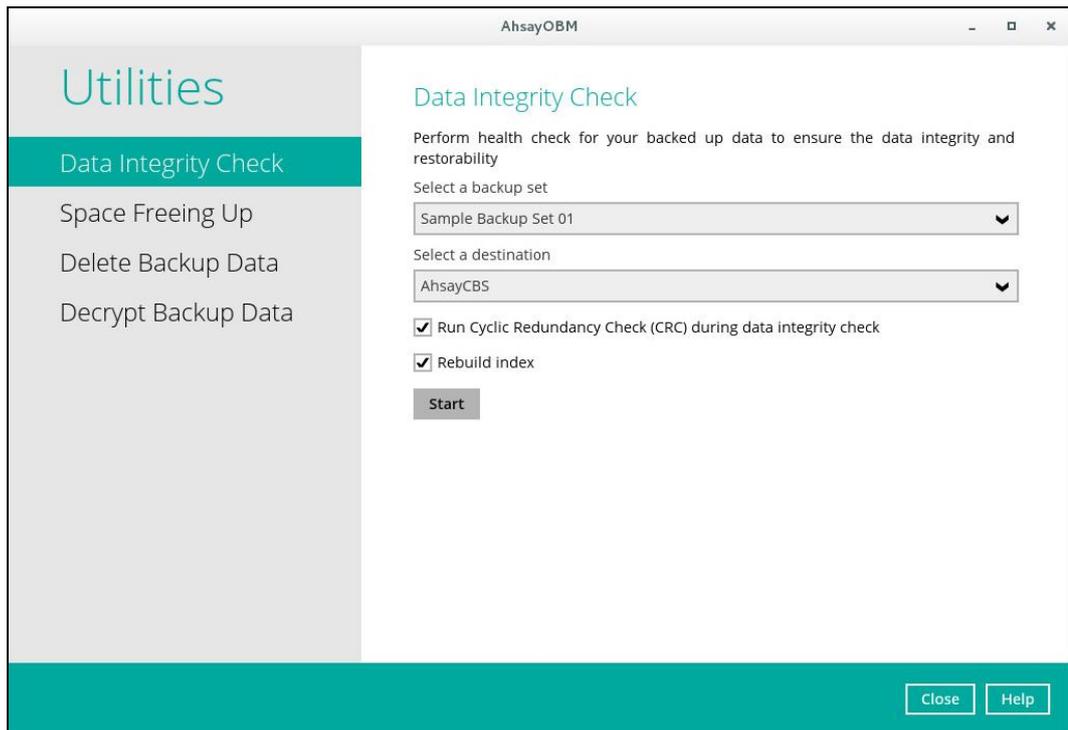
If you select a specific backup set then you will also have to select a specific destination or all destinations.



If you select All backup sets then there's no need to select a destination.



3. Click the [Start] button to perform the data integrity check.



- The result will be shown once completed. Click the [View Log] to see the event log during the data integrity check.

The result of data integrity check (TEST MODE) is as follow.

Backup set: Sample Backup Set 01

Destination	Items found in index	Data corrupted items	Checksum incorrect items	Index broken data blocks	Statistics
AhsayCBS	13 (86.7KB)	0 (0B)	0 (0B)	0 (0B)	Correct

\* File count (File size)

Close View log

Log 18/07/2019 09:51 Show All

Type	Log	Time
Info	Data integrity check (TEST MODE)	18/07/2019 09:51:17
Info	Start [AhsayOBM v8.2.1.0]	18/07/2019 09:51:17
Info	Start data integrity check on backup set "Sample Backup Set 01(1563331116102)", "AhsayCBS(1563331144978)", crc enabl...	18/07/2019 09:51:17
Info	Start processing data integrity check on backup set= "Sample Backup Set 01" destination= "AhsayCBS"	18/07/2019 09:51:23
Info	Rebuilding index...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=SJOB_ATTRIBUTES][Type=F][FullBackupJob=1][BackupByJob=2019-07-17-10-54-06]...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/][Type=T][FullBackupJob=2019-07-17-10-54-06][BackupByJob=2019-07-17-10-54-0...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root][Type=T][FullBackupJob=2019-07-17-10-54-06][BackupByJob=2019-07-17-10-...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2][Type=T][FullBackupJob=2019-07-17-10-54-06][BackupByJob=2...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/usr][Type=T][FullBackupJob=2019-07-17-10-54-06][BackupByJob=2019-07-17-10-5...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/usr/local][Type=T][FullBackupJob=2019-07-17-10-54-06][BackupByJob=2019-07-17-...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/AhsayCBS_version7_UserGuide.docx][Type=F][FullBackupJob=2...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/AhsayACB_UserGuideforWindows_version7.docx][Type=F][Full...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/BackupSolution.txt][Type=F][FullBackupJob=2019-07-17-10-54-...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/AhsayOBM_version7_QuickStartGuide.docx][Type=F][FullBacku...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/LogFile_2017.txt][Type=F][FullBackupJob=2019-07-17-10-54-06]...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/LogFile_2018.txt][Type=F][FullBackupJob=2019-07-17-10-54-06]...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/version7_AhsayMOB_UserGuideAndroid.docx][Type=F][FullBac...	18/07/2019 09:51:25
Info	[BackupFile][Version=10120][ClientPath=/root/Documents_2/LogFile.txt][Type=F][FullBackupJob=2019-07-17-10-54-06][Back...	18/07/2019 09:51:25

Logs per page 50 Page 1 / 1

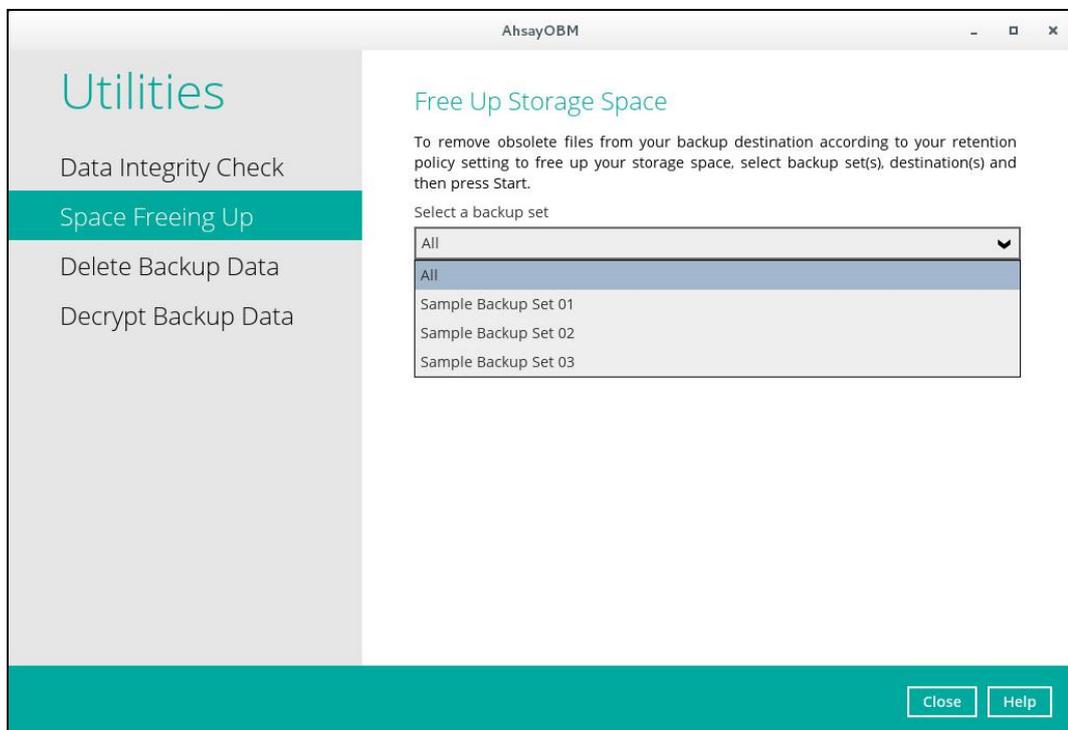
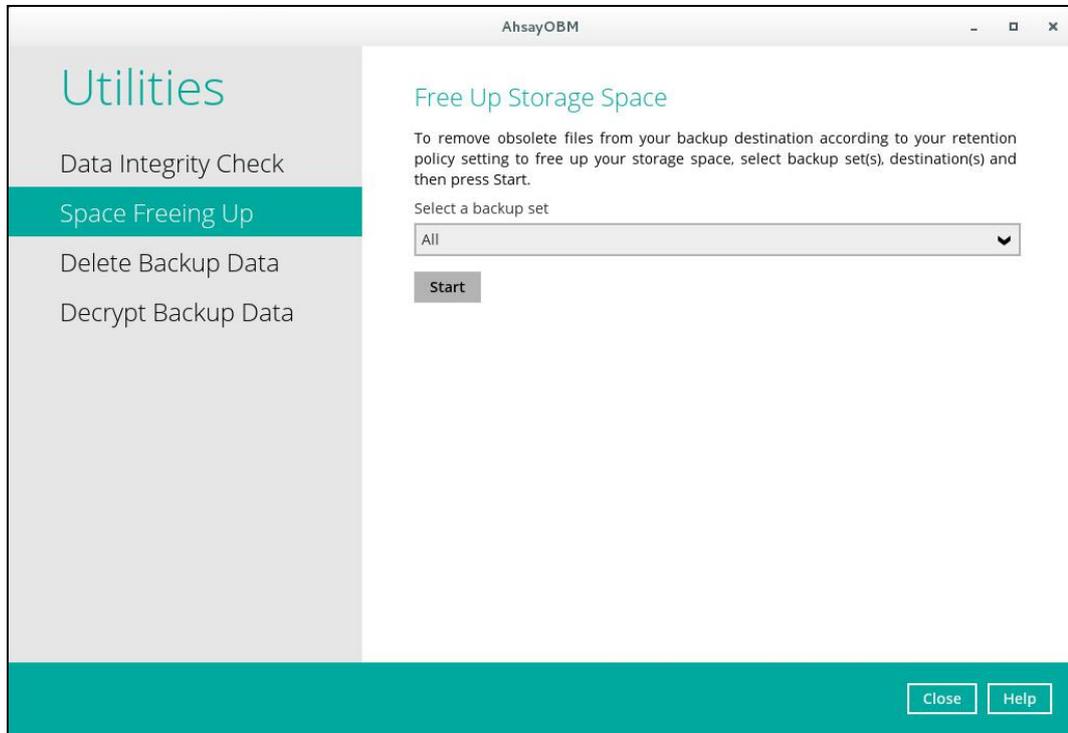
Close

## Space Freeing Up

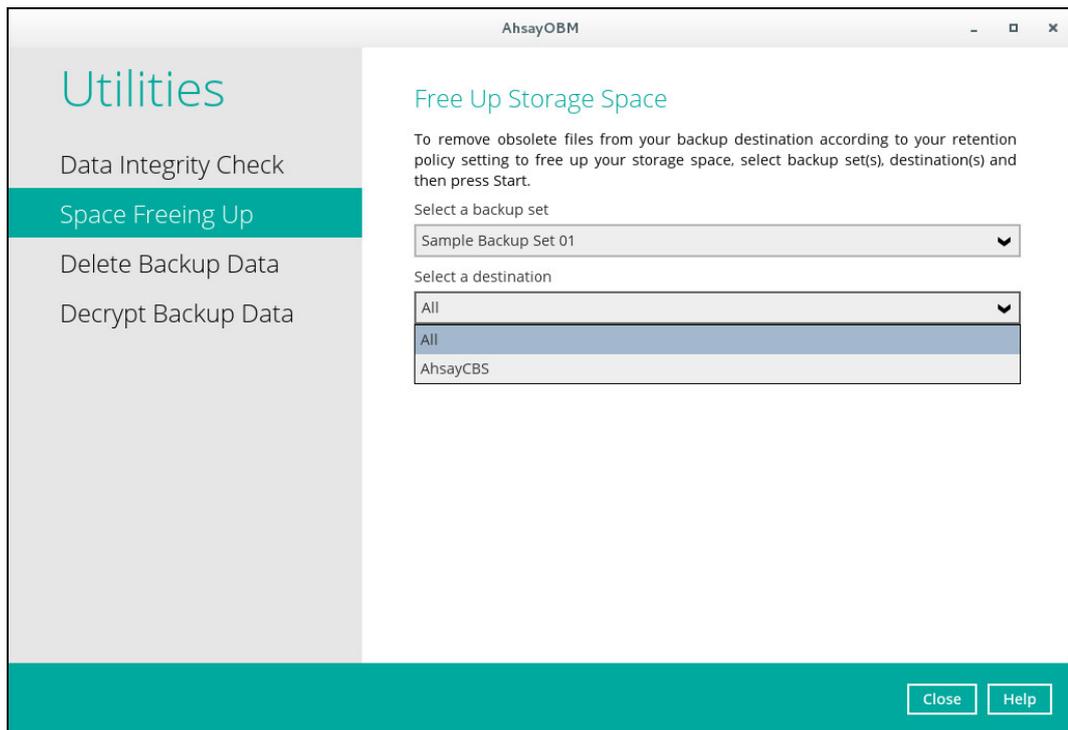
This feature is used to remove obsolete file/s from your backup set and destination.

To perform Space Freeing Up, follow the instructions below:

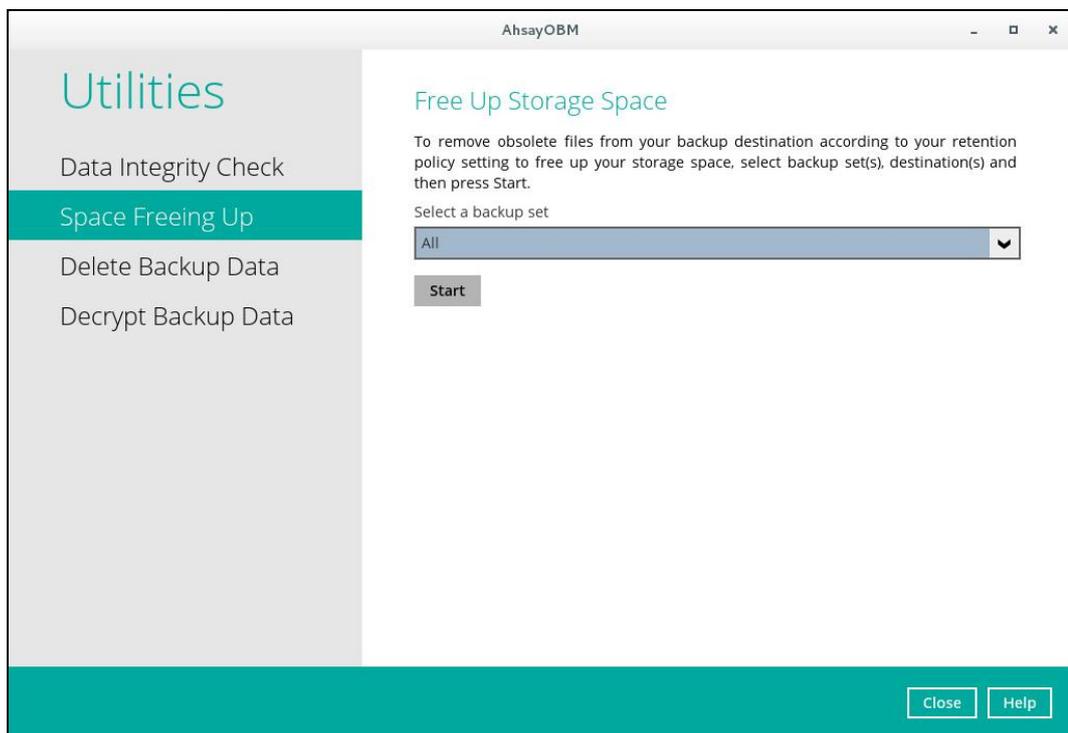
1. Select a backup set from the drop-down list.



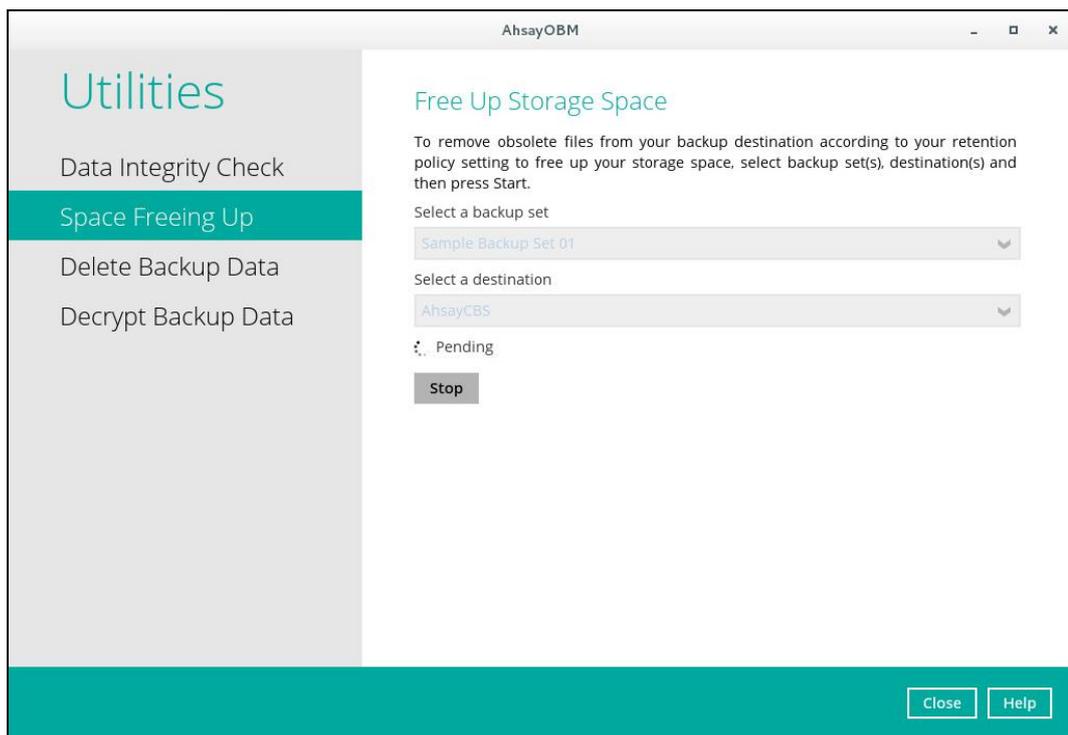
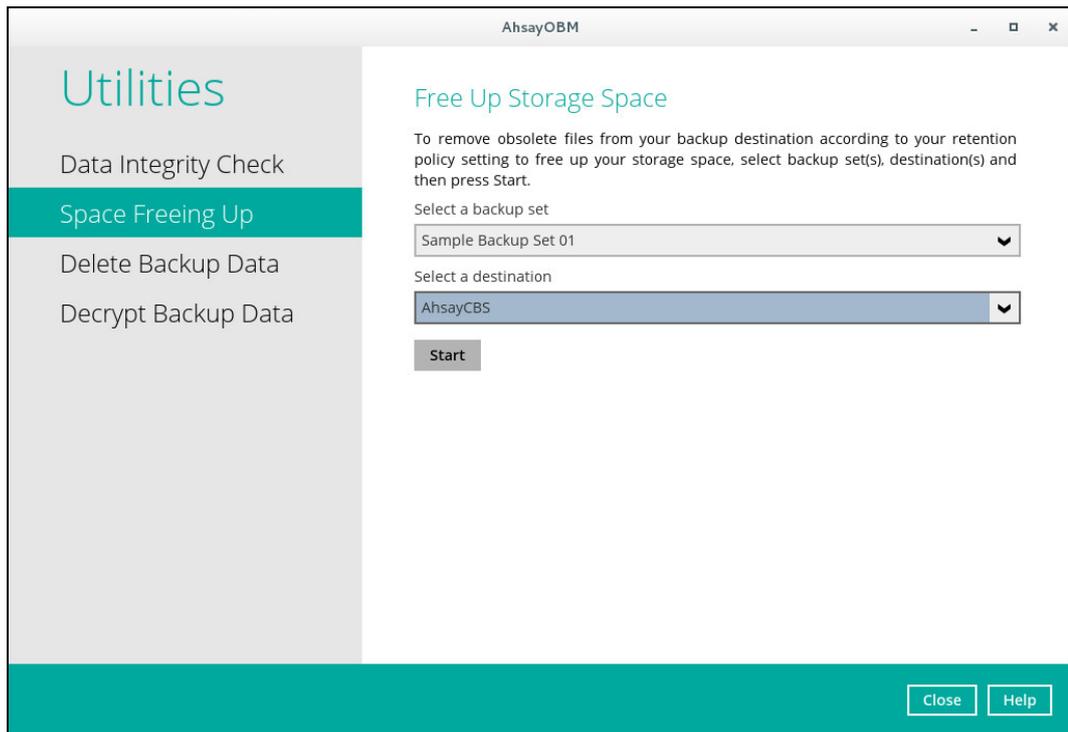
If you select a specific backup set then you will also have to select a specific destination or all destinations.



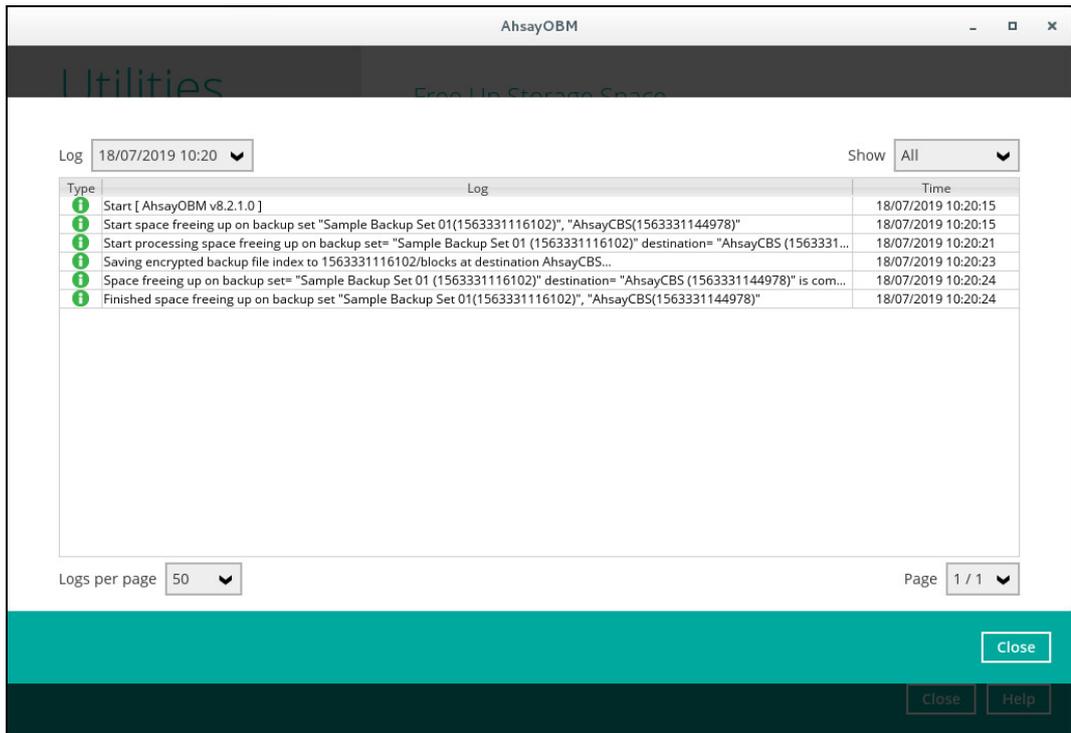
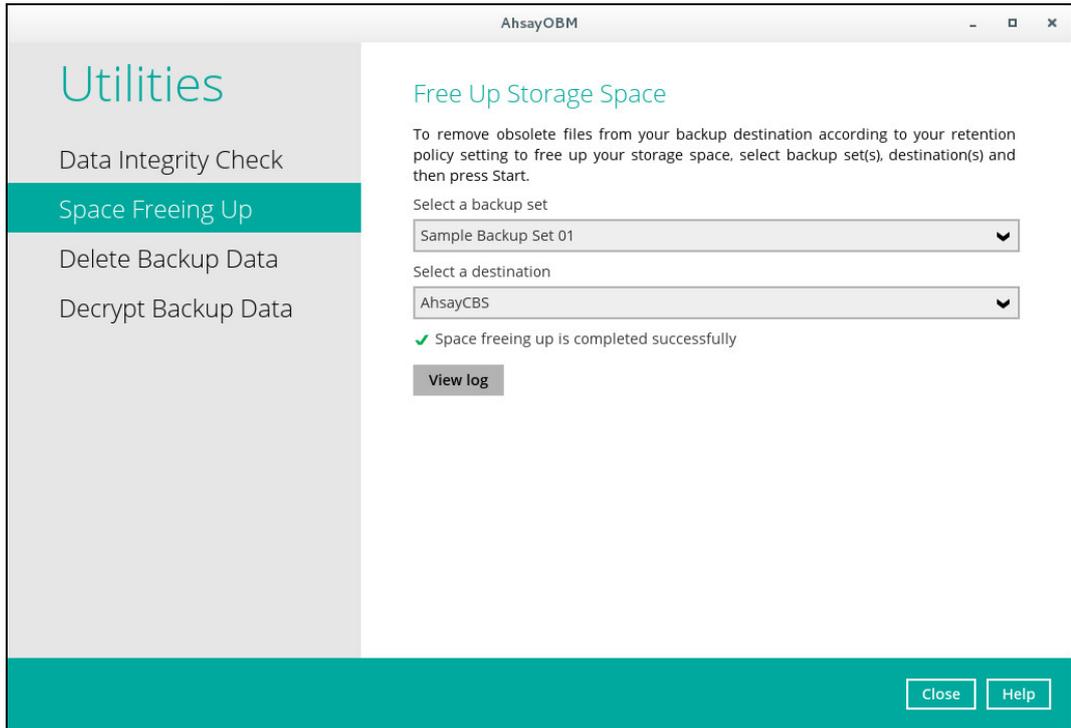
If you select All backup sets then there's no need to select a destination.



2. Click the [Start] button to perform space free up.



- The result will be shown once completed. Click the [View Log] to see the event log during the space free up.

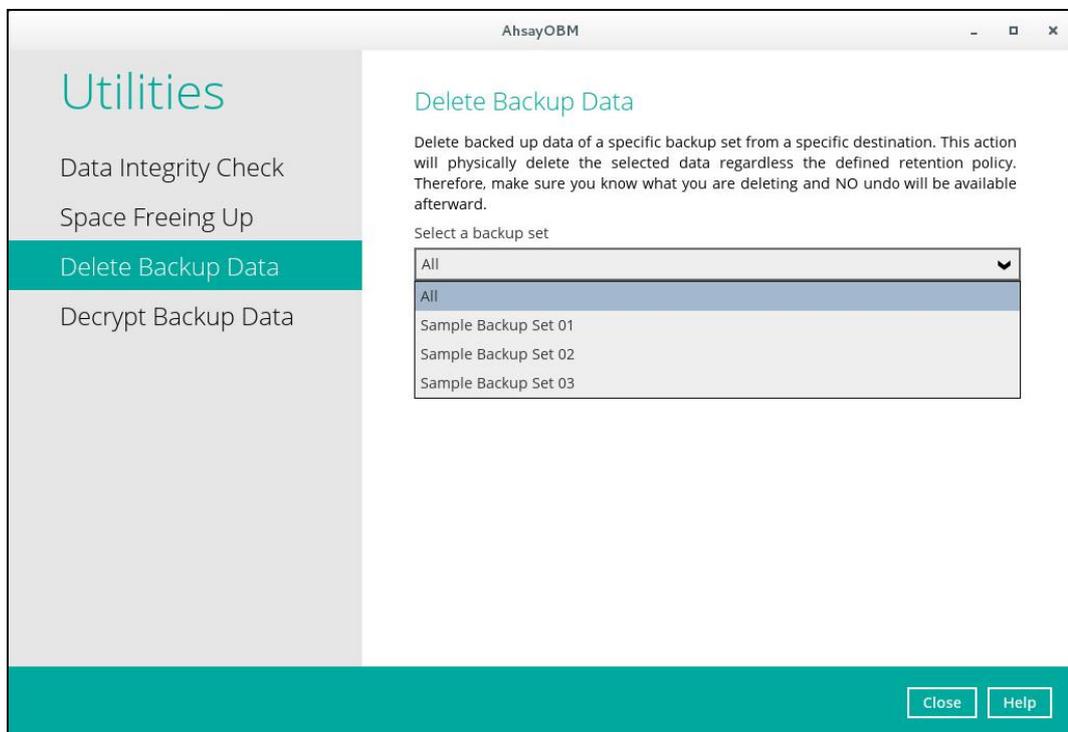
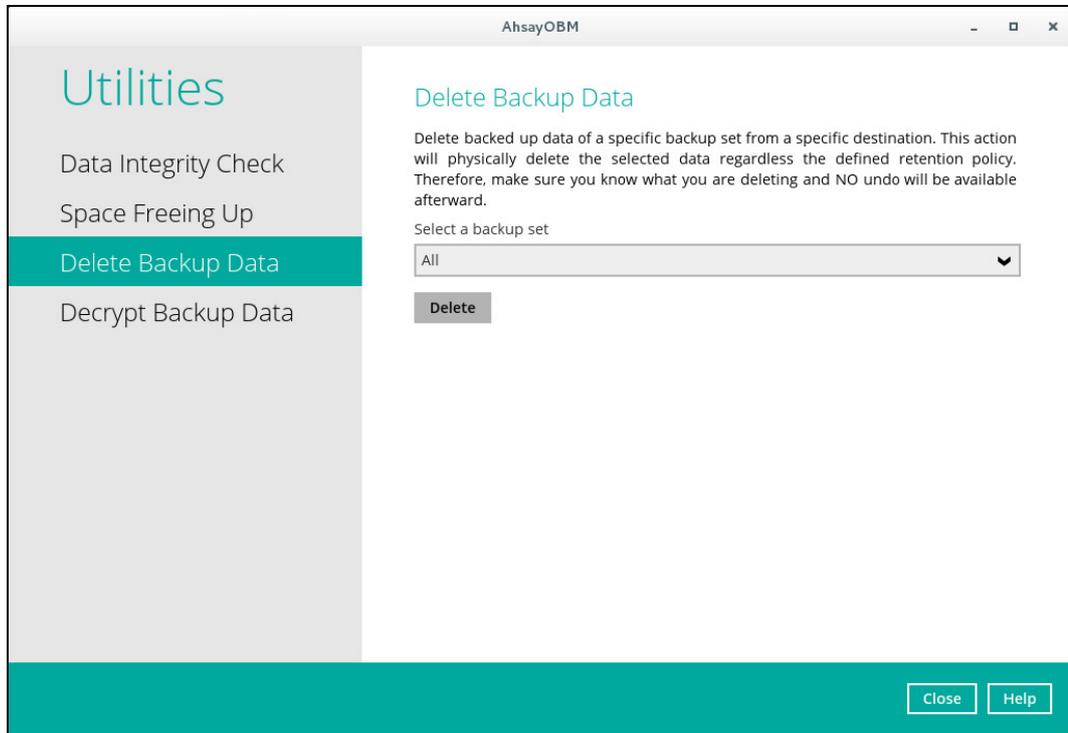


## Delete Backup Data

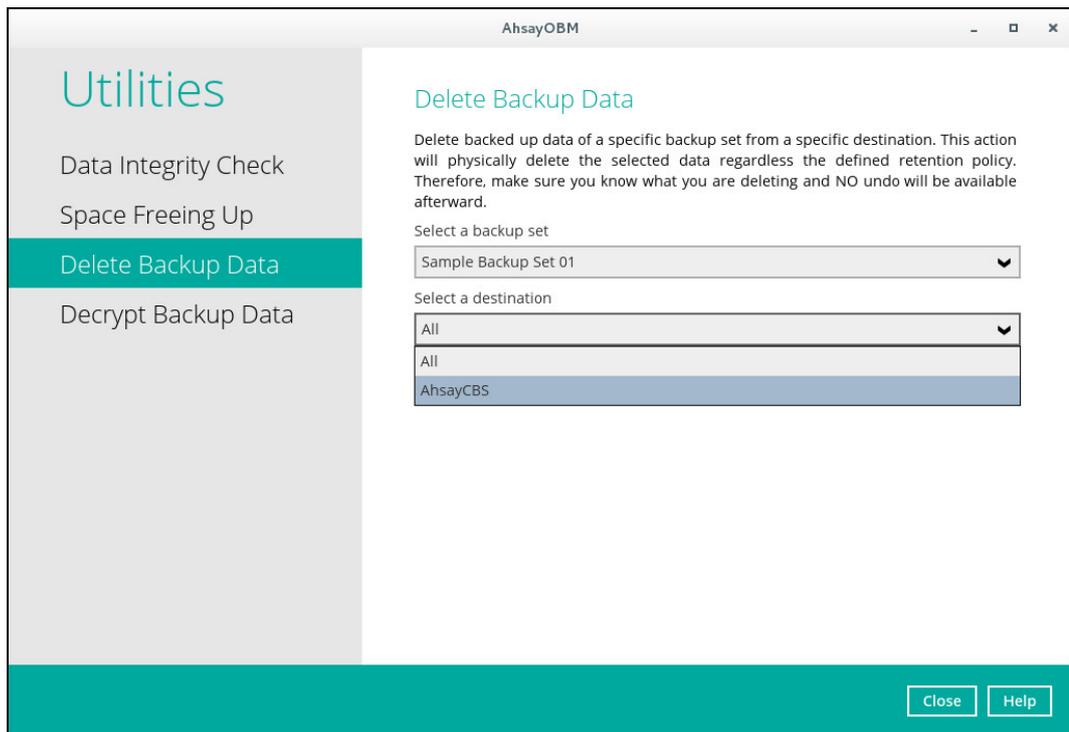
This feature is used to delete backed-up files from a specific or all backup sets.

To perform deletion of backup data, follow the instructions below:

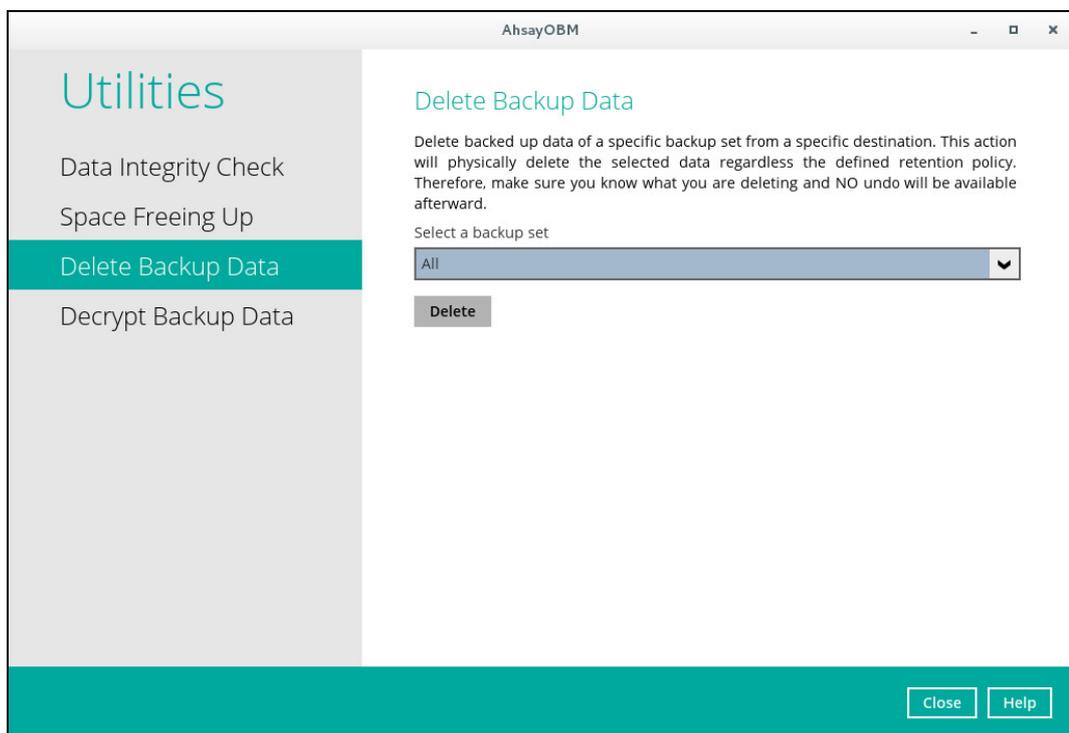
1. Select a backup set from the drop-down list.



If you select a specific backup set then you will also have to select a specific destination or all destinations.

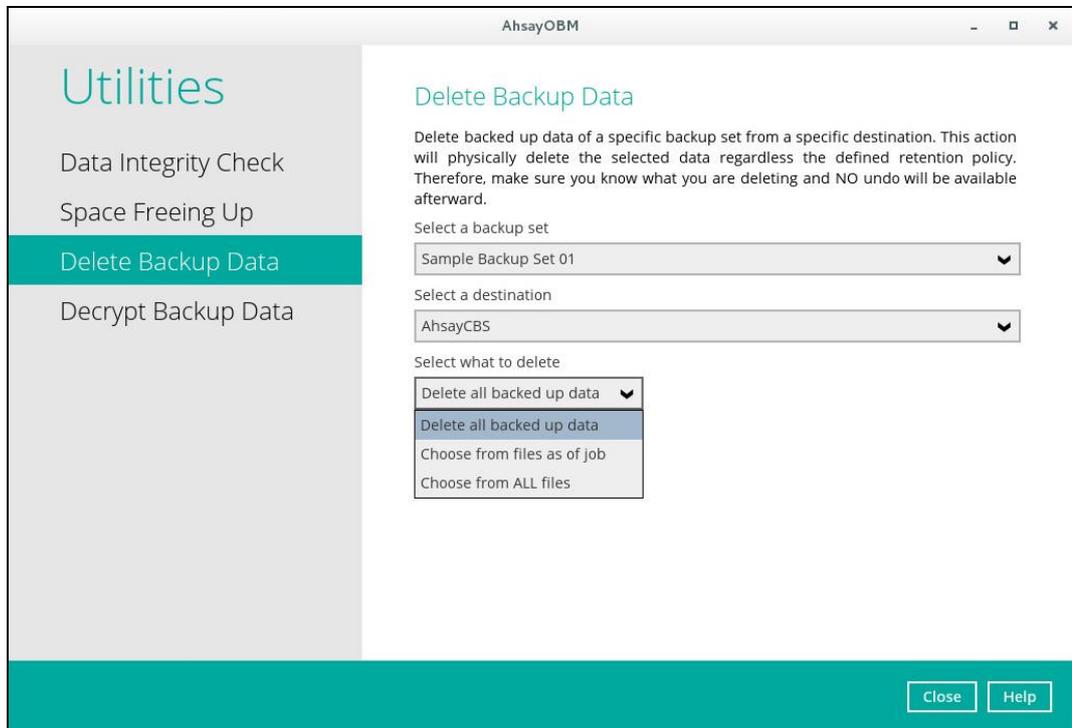


If you select All backup sets then there's no need to select a destination.

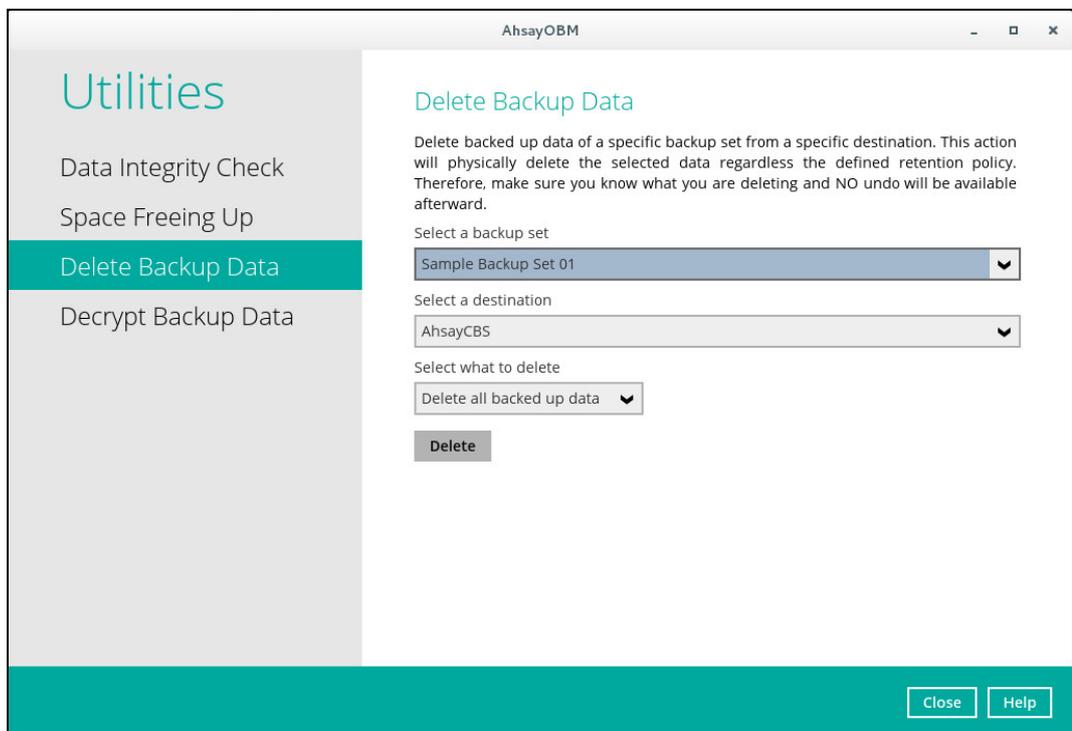


2. There are three (3) options for the type of files you wish to delete.

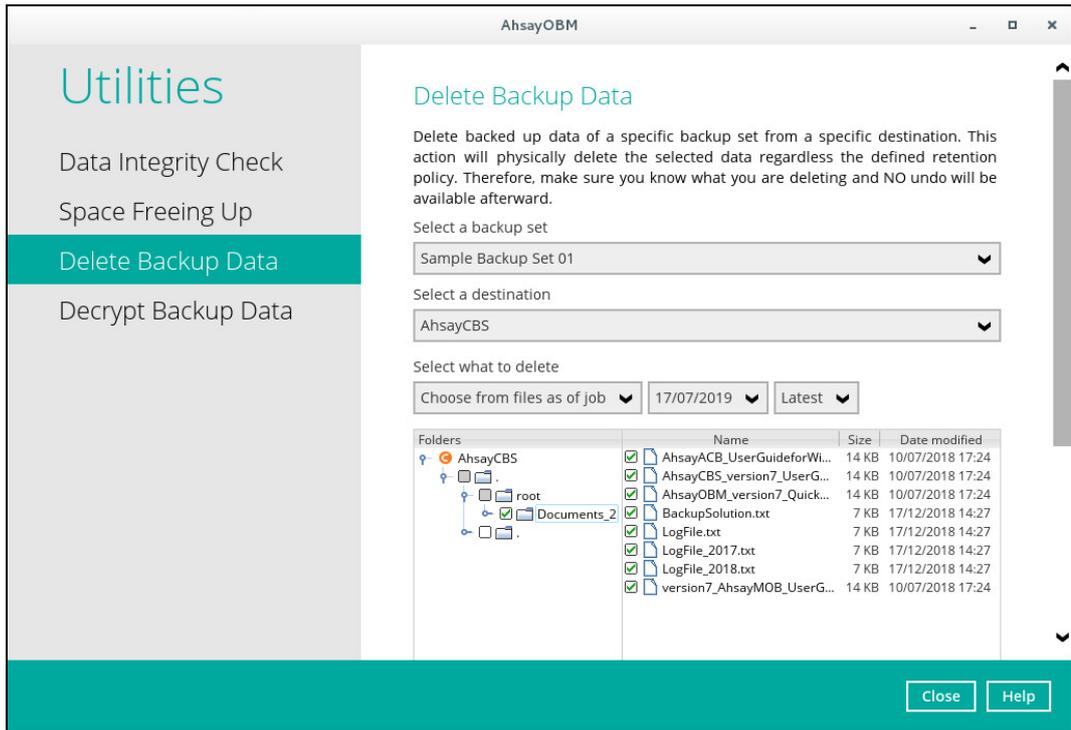
- Delete all backed up data
- Choose from files as of job
- Choose from ALL files



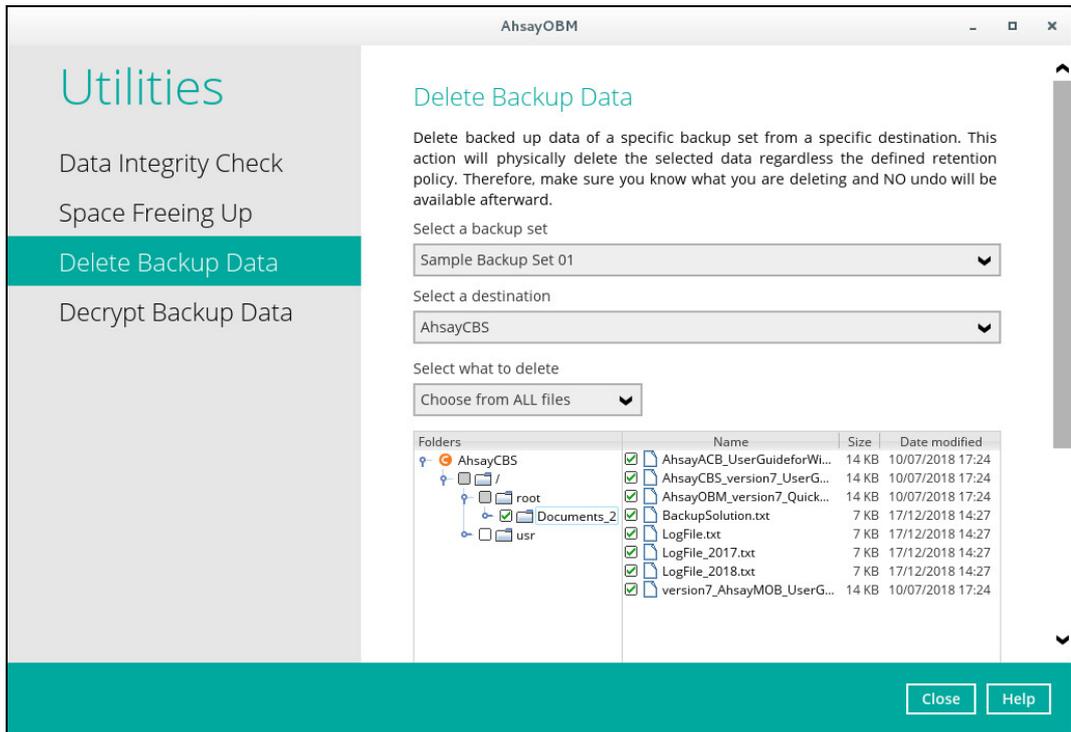
Delete all backed up data, all the data in the selected backup set and destination will be removed.



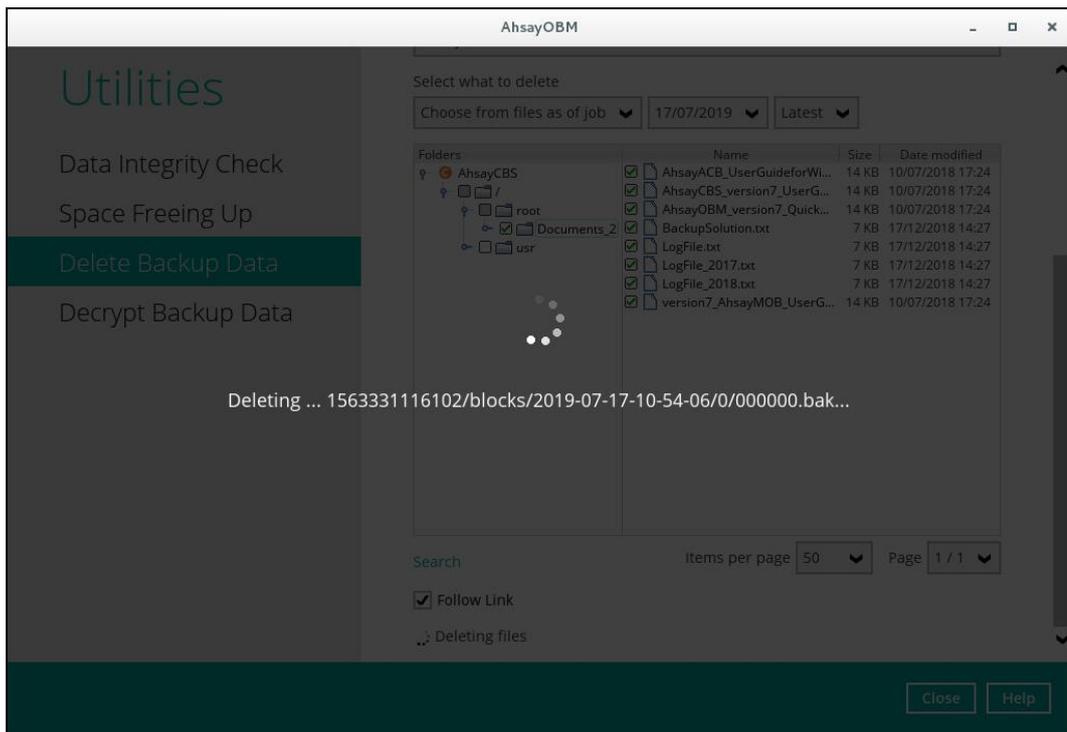
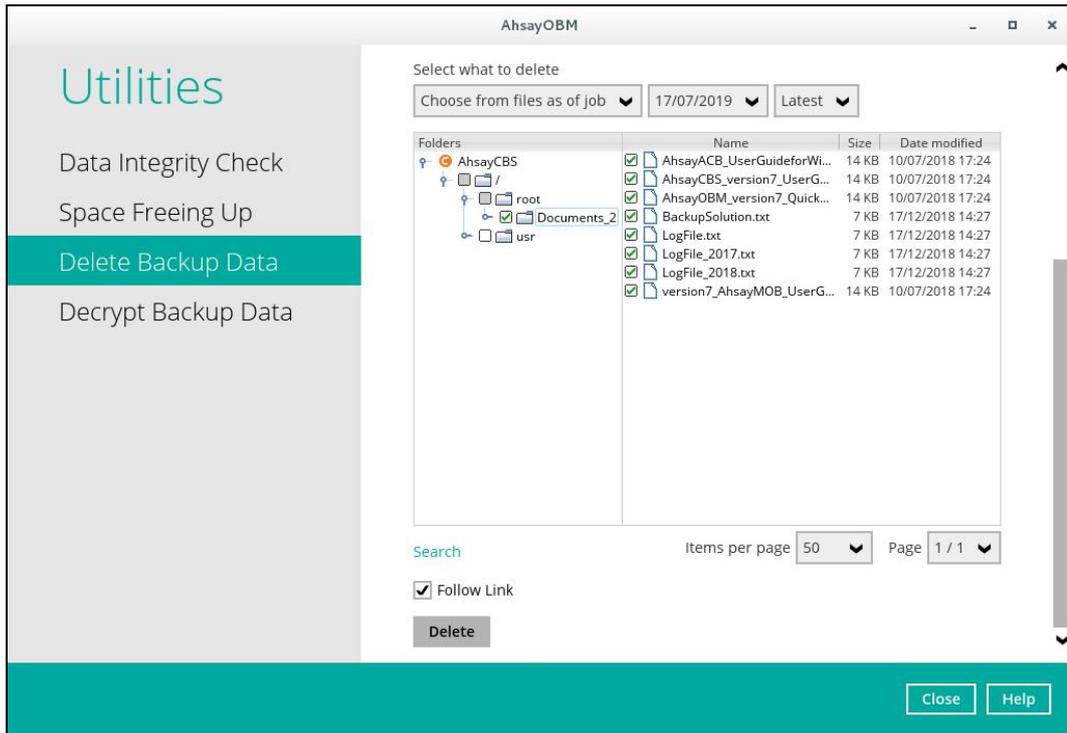
Choose from files as of job, all selected files from a backup snapshot will be removed.

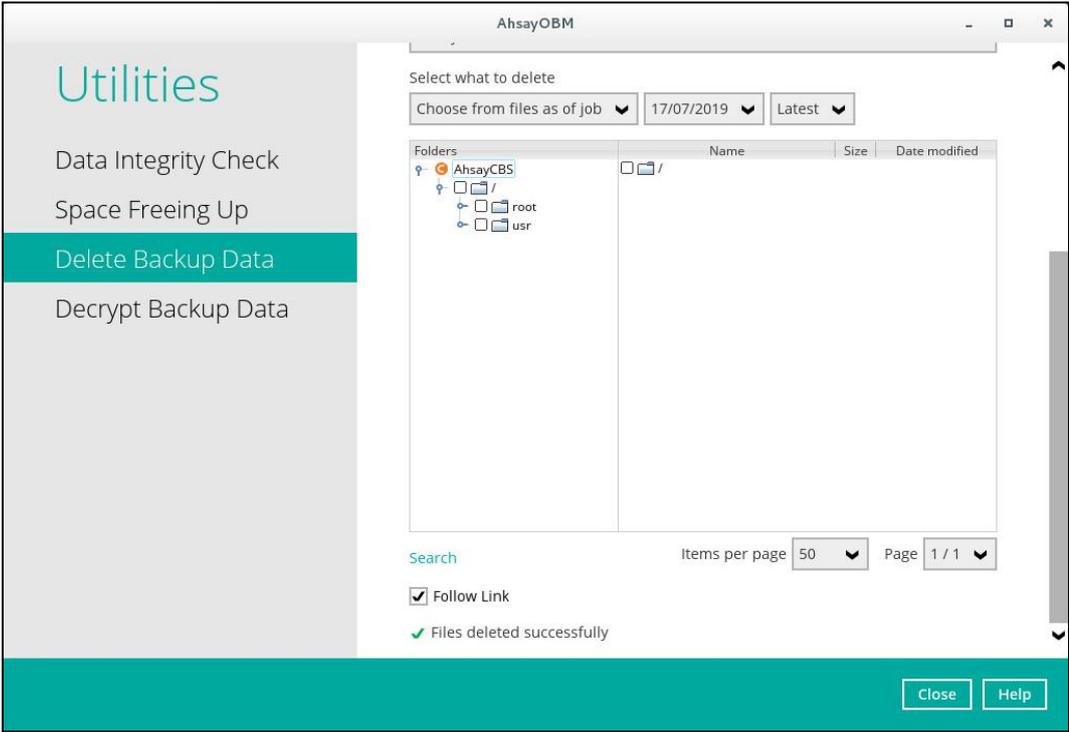


Choose from ALL files, all selected files in the backup set will be removed.



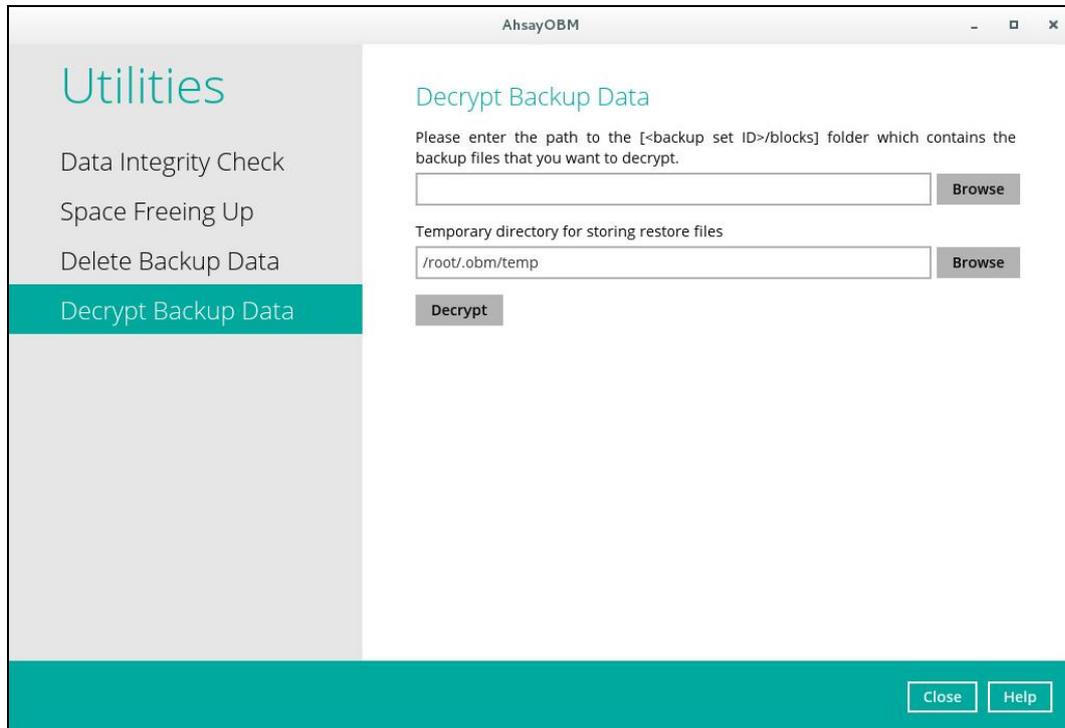
3. Click the [Delete] button to perform deletion of files.





## Decrypt Backup Data

This feature is used to restore raw data by using the data encryption key that was set for the backup set.



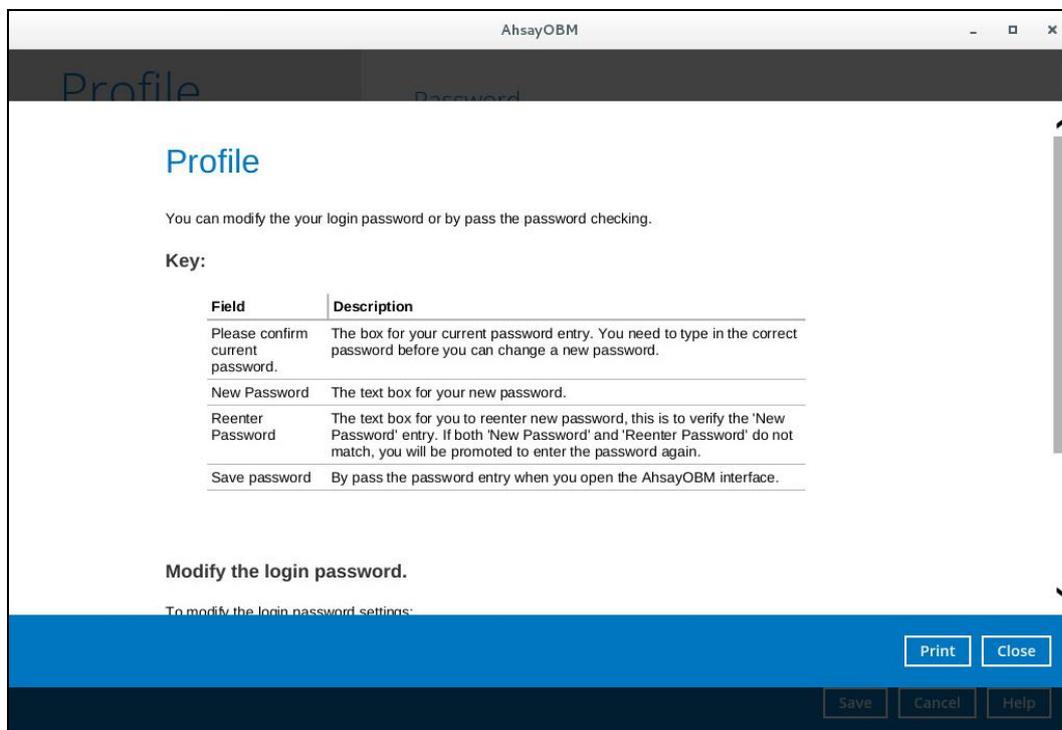
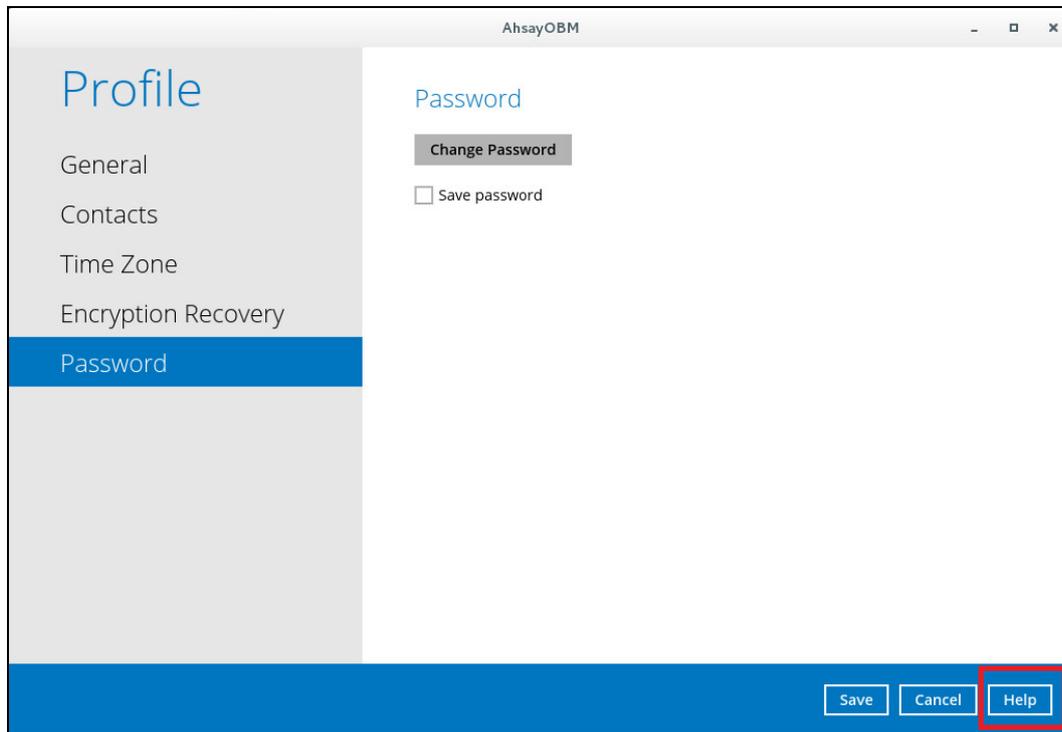
The screenshot shows a web-based utility window titled "AhsayOBM". On the left is a sidebar with the heading "Utilities" and four menu items: "Data Integrity Check", "Space Freeing Up", "Delete Backup Data", and "Decrypt Backup Data" (which is highlighted in teal). The main content area is titled "Decrypt Backup Data" and contains the following text: "Please enter the path to the [<backup set ID>/blocks] folder which contains the backup files that you want to decrypt." Below this is an empty text input field followed by a "Browse" button. The next section is labeled "Temporary directory for storing restore files" and contains the text "/root/.obm/temp" in an input field, followed by another "Browse" button. At the bottom of the main area is a "Decrypt" button. At the very bottom of the window are "Close" and "Help" buttons.

To perform decryption of backup data, follow the instructions below:

1. Click the [Browse] button to locate the path of the backup set ID / blocks folder.
2. Click the [Browse] button to re-select the temporary folder for the decrypt process.
3. Click the [Decrypt] button to begin.

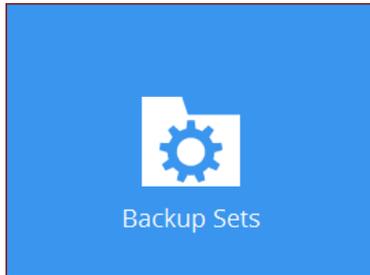
## Online Help

This allows the user to view the summary of information and instructions of each available feature in AhsayOBM.

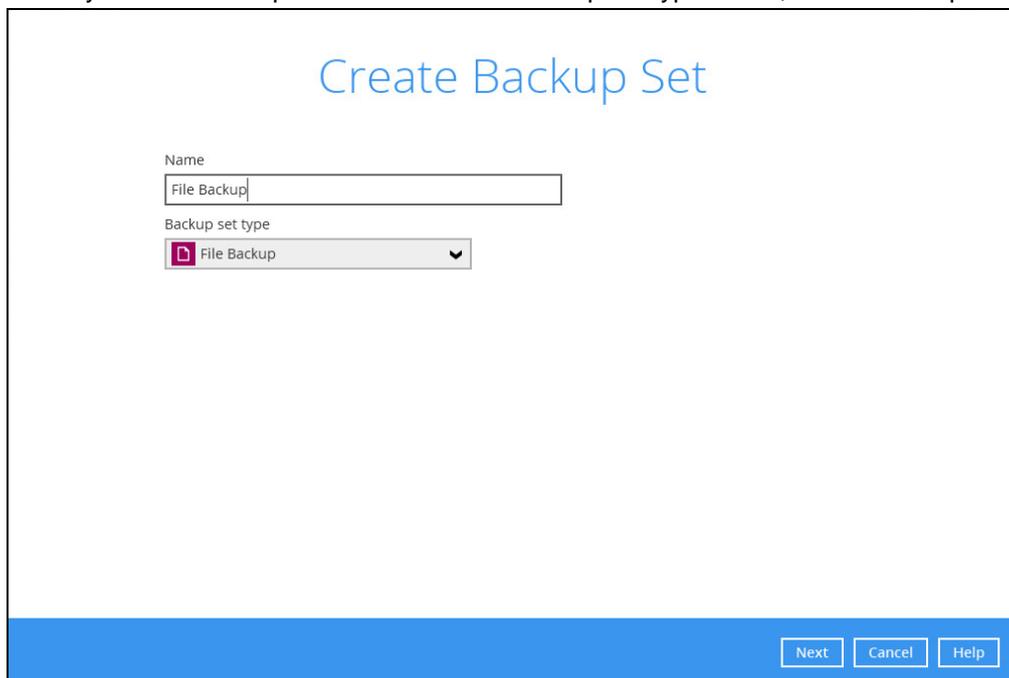


## 6 Creating a File Backup Set

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



2. Create a new backup set by clicking the "+" icon next to Add new backup set.
3. Name your new backup set and select the Backup set type. Then, click **Next** to proceed.

A dialog box titled "Create Backup Set" with a white background and a blue footer. It contains a text input field for "Name" with "File Backup" entered, and a dropdown menu for "Backup set type" with "File Backup" selected. At the bottom right, there are three buttons: "Next", "Cancel", and "Help".

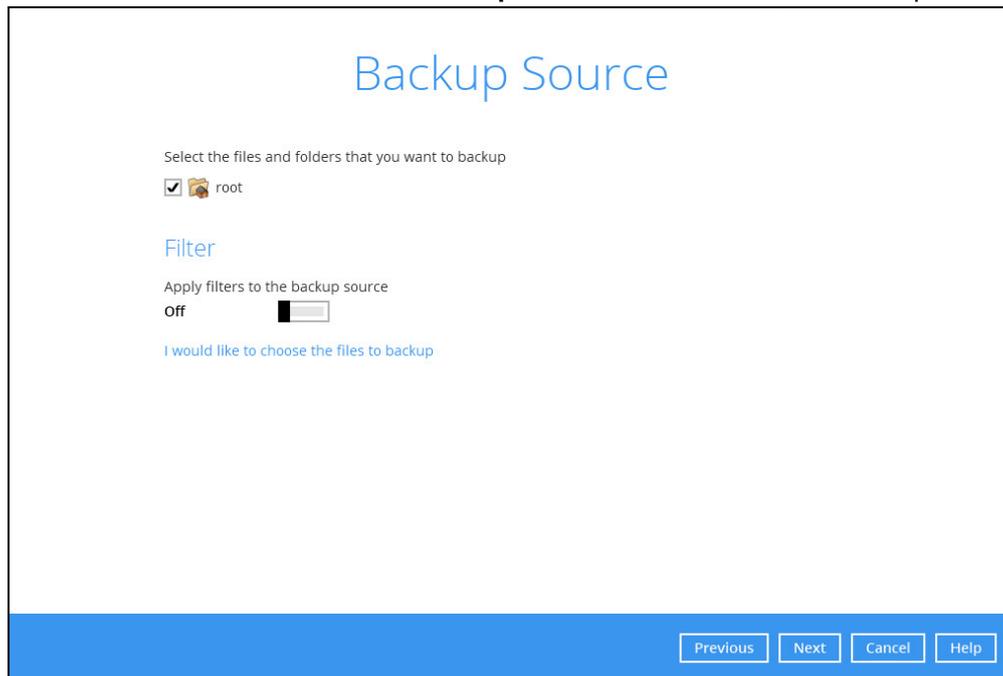
Create Backup Set

Name  
File Backup

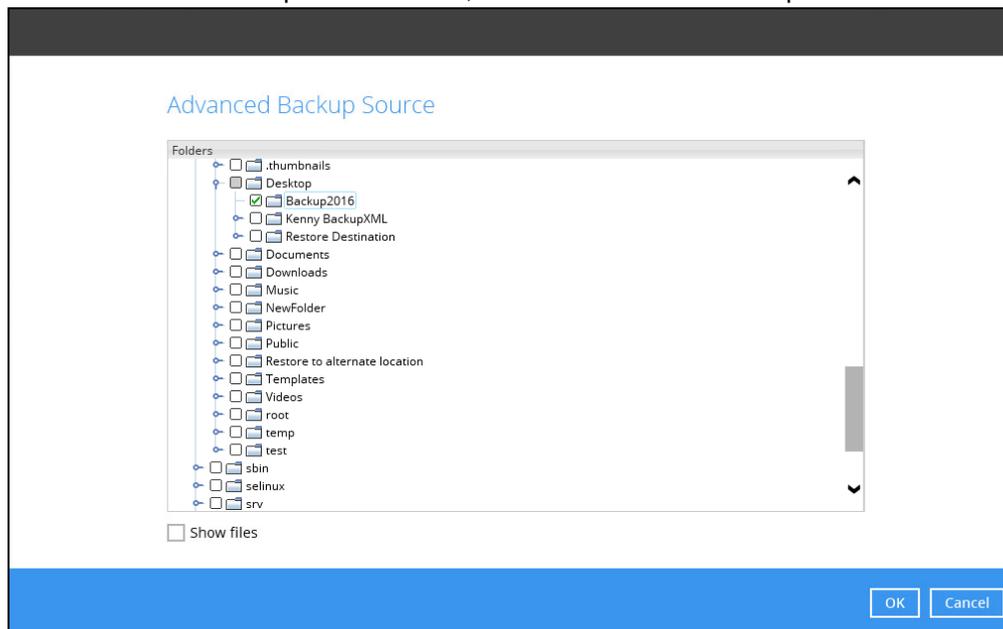
Backup set type  
File Backup

Next Cancel Help

4. In the Backup Source menu, select the files and folder that you would like to backup. Click **I would like to choose the files to backup** to select individual files for backup.

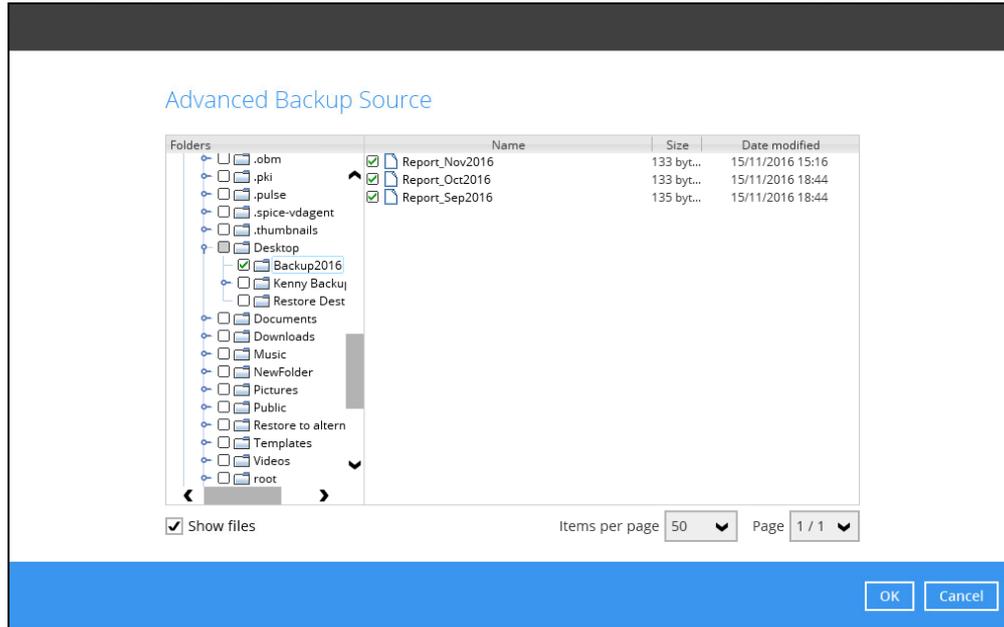


5. In the Advanced Backup Source menu, select the folder to back up all files in the folder.

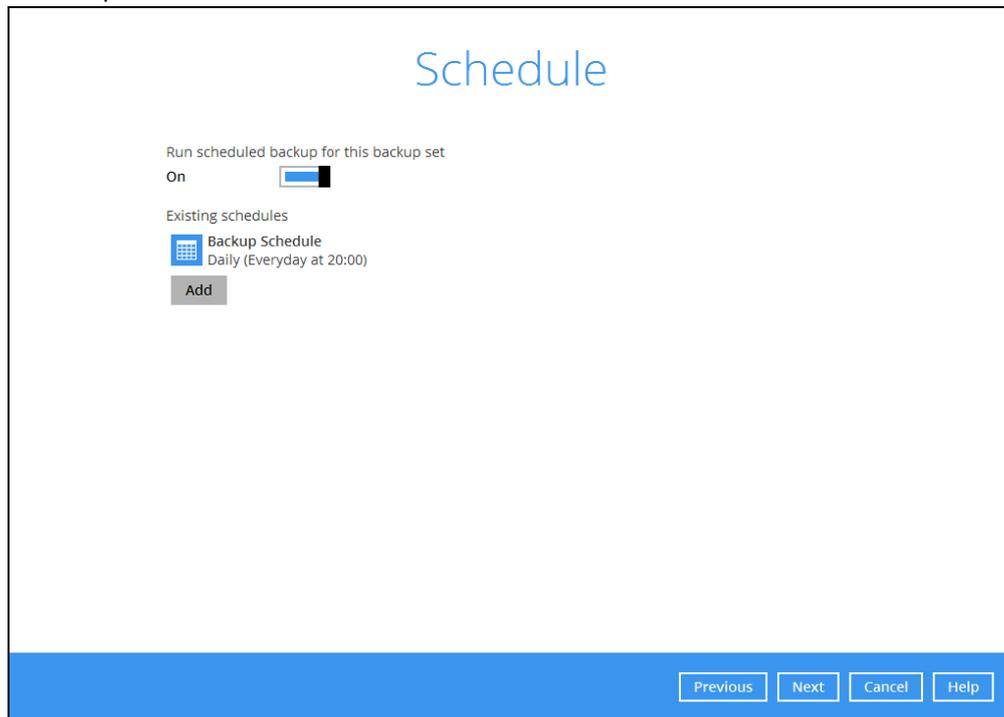


6. Alternatively, if you want to back up a specific file instead of all files in your selected folder, select the **Show files** checkbox at the bottom of the screen. A list of files will appear on the right hand side. Select the checkbox(es) next to the file(s) to back up. Then, click **OK** to

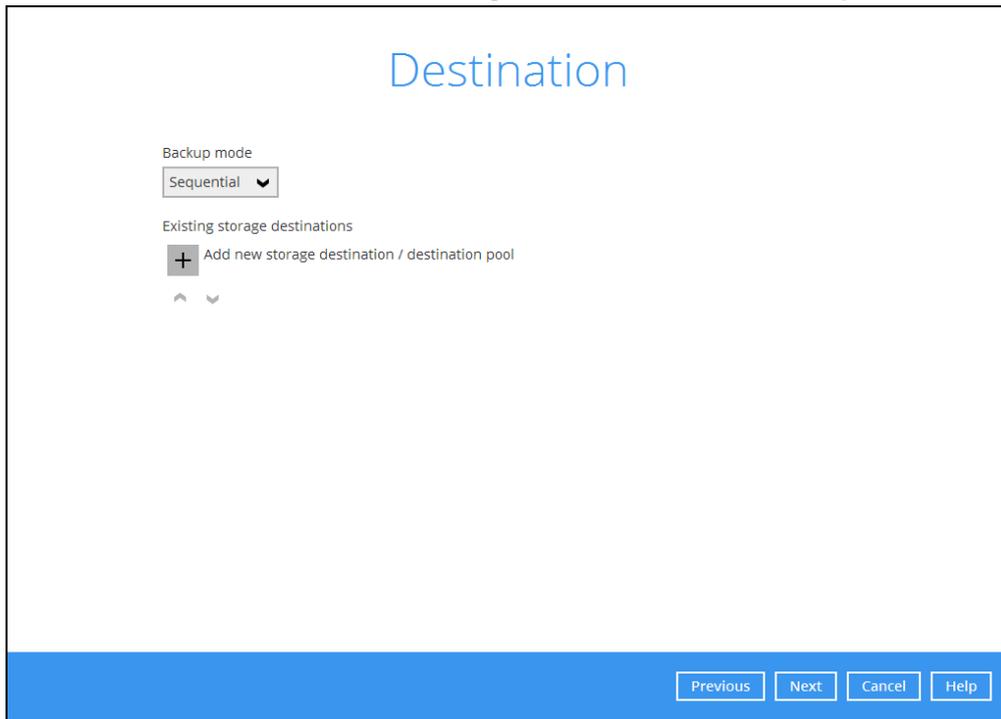
close the Advanced Backup Source menu.



7. In the Backup Source menu, click **Next** to proceed.
8. In the Schedule menu, you can configure a backup schedule for backup job to run automatically at your specified time interval. Click **Add** to add a new schedule. Then, click **Next** to proceed.



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



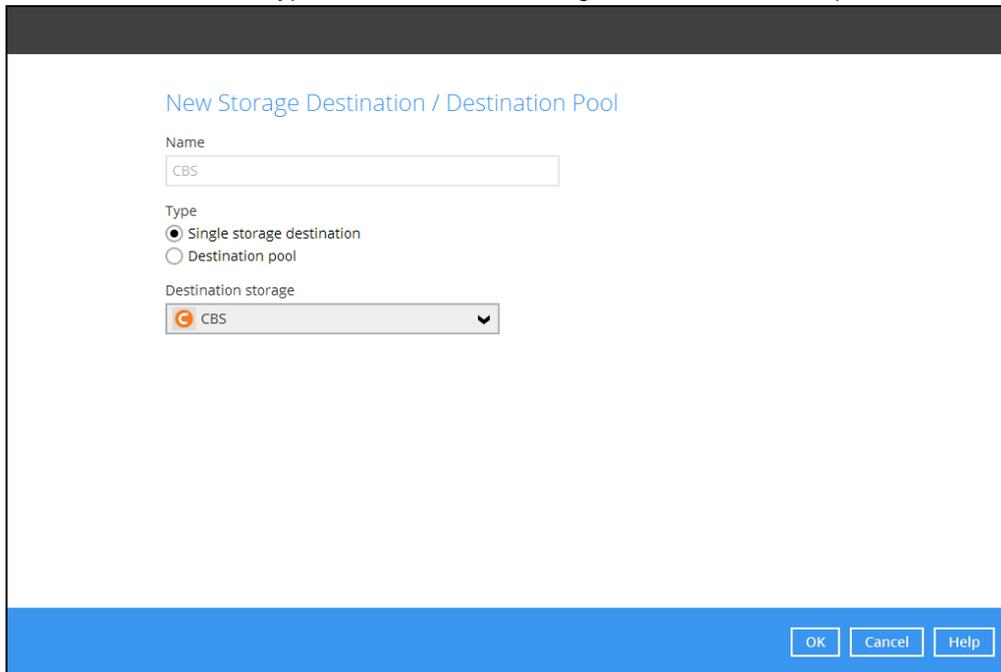
Destination

Backup mode  
Sequential ▾

Existing storage destinations  
+ Add new storage destination / destination pool  
^ ▾

Previous Next Cancel Help

10. Select the destination type and destination storage. Then, click **OK** to proceed.



New Storage Destination / Destination Pool

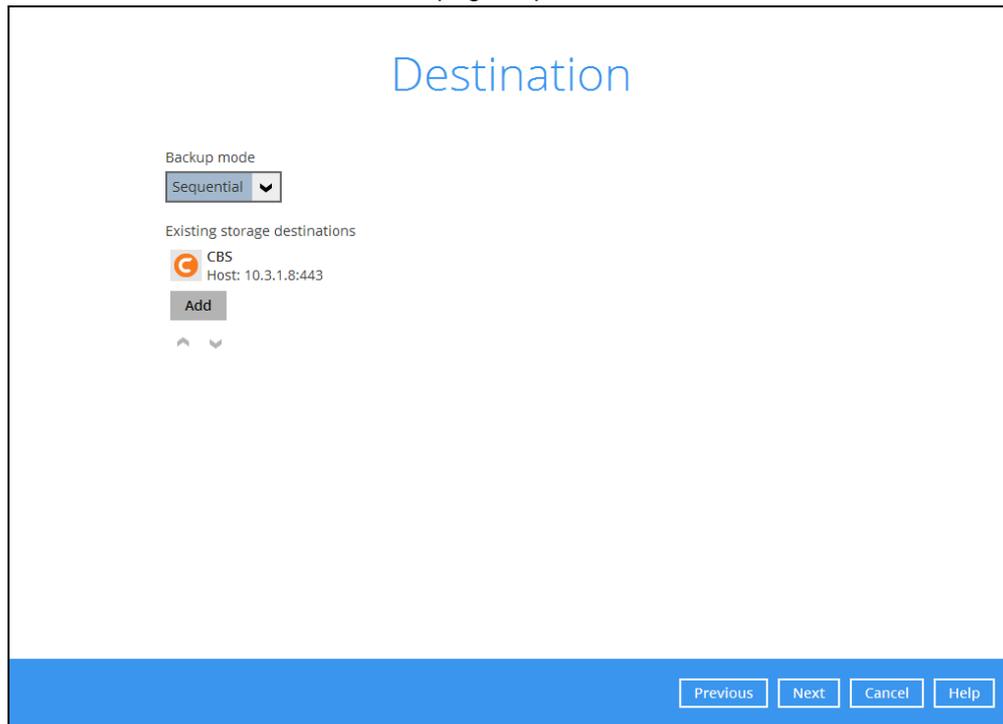
Name  
CBS

Type  
 Single storage destination  
 Destination pool

Destination storage  
CBS ▾

OK Cancel Help

11. Click **Next** on the Destination menu page to proceed.



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.



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.

Encryption

Encrypt Backup Data  
On

Encryption Type  
Custom ▼

Algorithm  
AES ▼

Encryption key  
.....

Re-enter encryption key  
.....

Method  
 ECB  CBC

Key length  
 128-bit  256-bit

Previous Next Cancel Help

**Note:** For best practice on managing your encryption key, refer to the following KB article.  
<https://forum.ahsay.com/viewtopic.php?f=169&t=14090>

Click **Next** when you are done setting.

13. 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.

Encryption

Encrypt Backup Data  
On

Encryption Type

You are advised to write this encryption key down on paper and keep it in a safe place. You will need it when you need to restore your files later. Please confirm that you have done so.

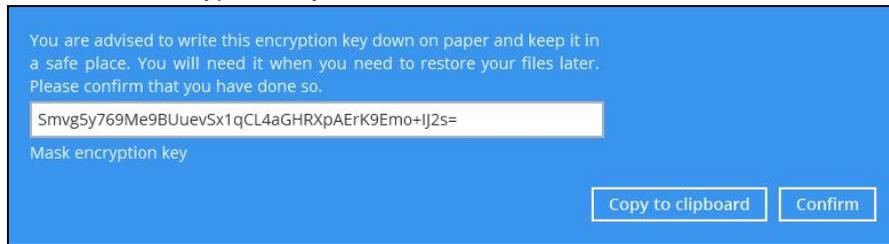
.....

Unmask encryption key

Copy to clipboard Confirm

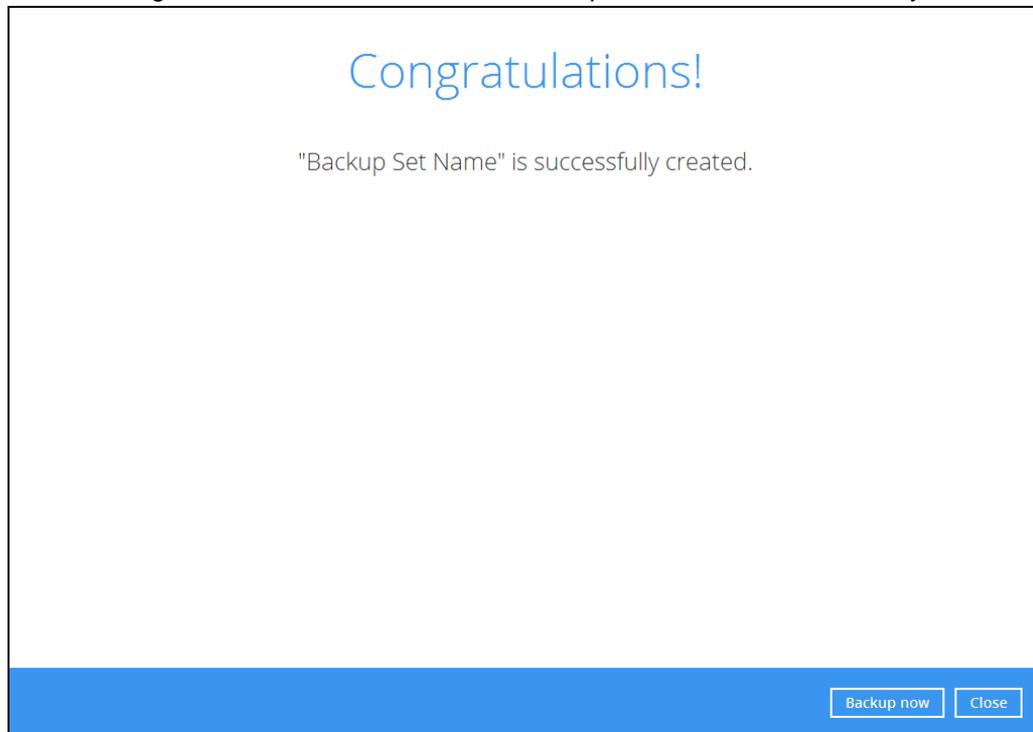
The pop-up window has the following three options to choose from:

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



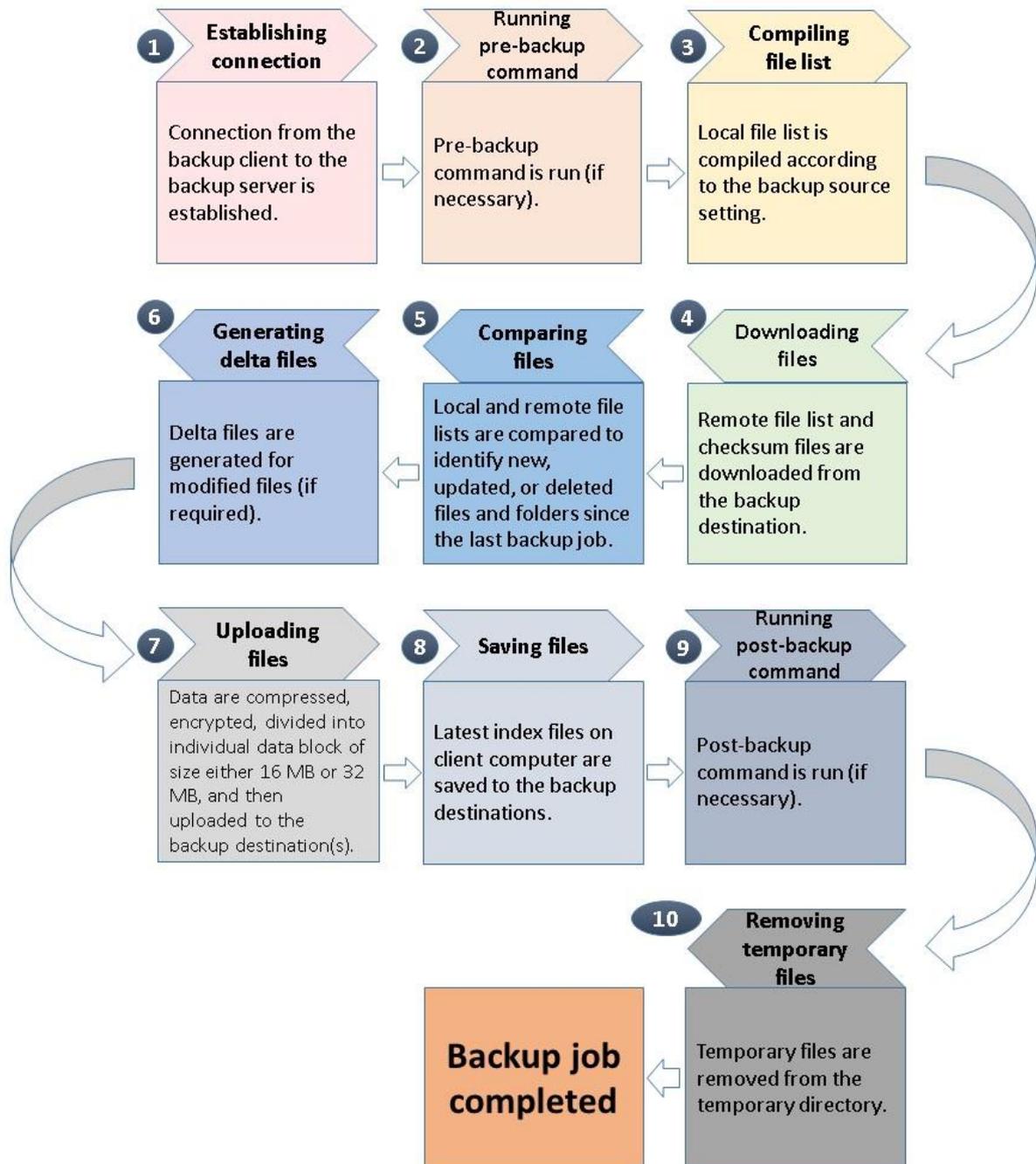
- **Copy to clipboard** – Click to copy the encryption key, then you can paste it in another location of your choice.
- **Confirm** – Click to exit this pop-up window and proceed to the next step.

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



## 7 Overview on Backup Process

The following steps are performed during a file backup job:



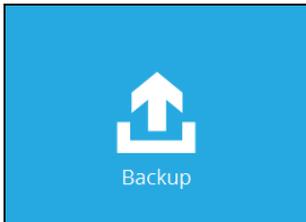
## 8 Running Backup Jobs

### Login to AhsayOBM

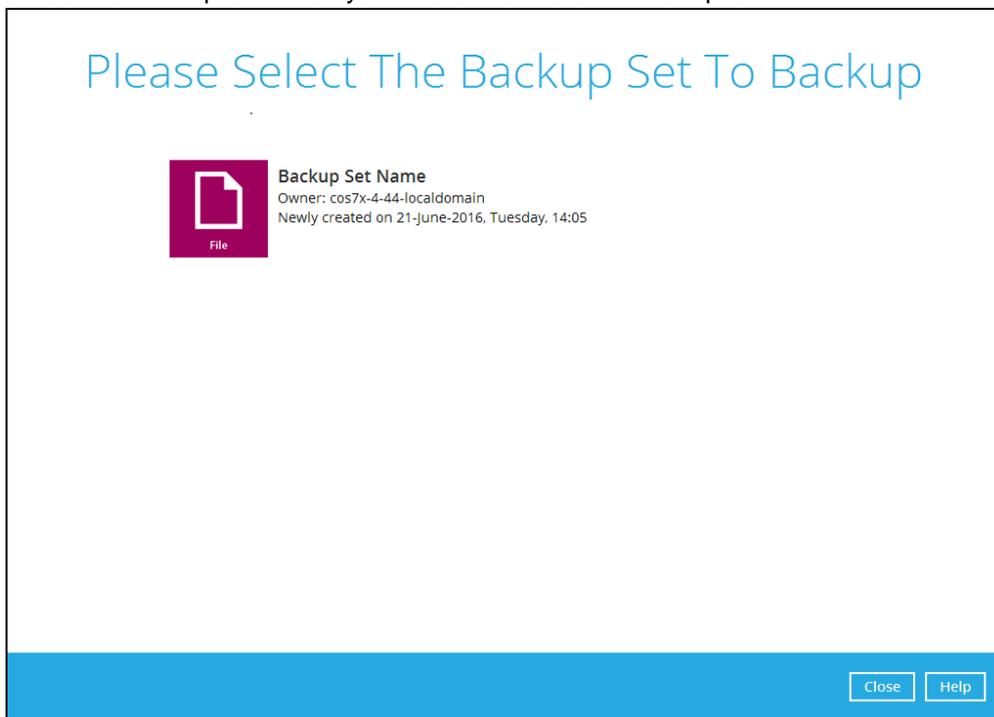
Login to the AhsayOBM application according to the instructions in section 4 [Login to AhsayOBM](#).

### Start a Manual Backup

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



2. Select the backup set which you would like to start a backup for.



3. The Choose Your Backup Options screen will appear. If you would like to modify the In-File Delta type, Destinations and Retention Policy settings, click **Show advanced option**.

Choose Your Backup Options

 File Backup

Backup set type  
File

In-File Delta type  
 Full  
 Differential  
 Incremental

Destinations  
  CBS (Host: 10.23.6.67:443)

Retention Policy  
 Run Retention Policy after backup

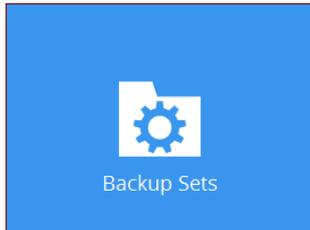
[Hide advanced option](#)

Previous Backup Cancel Help

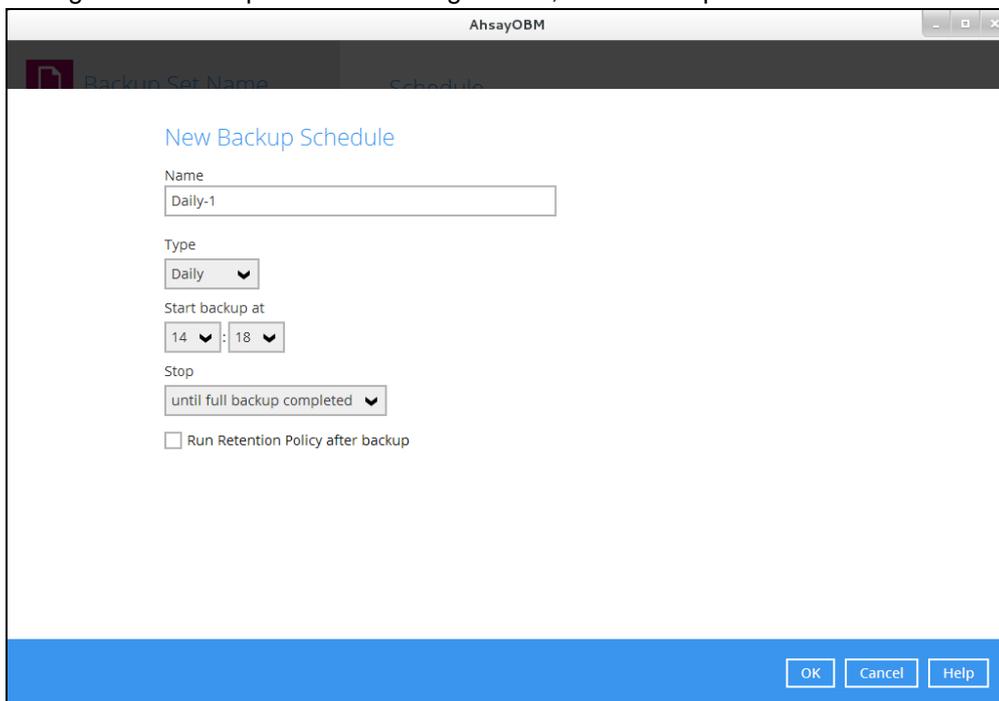
4. Click **Backup** to start the backup.

## Configure Backup Schedule for Automated Backup

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



2. Select the backup set that you would like to create a backup schedule for.
3. Click **Backup Schedule**. Then, create a new backup schedule by clicking **Add**.
4. Configure the backup schedule settings. Then, click **OK** to proceed.

A screenshot of a web browser window titled "AhsayOBM". The main content area shows a "New Backup Schedule" dialog box. The dialog has a title bar with "Backup Set Name" and "Schedule". The form fields are: "Name" with a text input containing "Daily-1"; "Type" with a dropdown menu showing "Daily"; "Start backup at" with two dropdown menus showing "14" and "18"; "Stop" with a dropdown menu showing "until full backup completed"; and a checkbox labeled "Run Retention Policy after backup" which is currently unchecked. At the bottom right of the dialog are three buttons: "OK", "Cancel", and "Help".

5. Click **Save** to confirm your settings.

## 9 Restoring Data

### Login to AhsayOBM

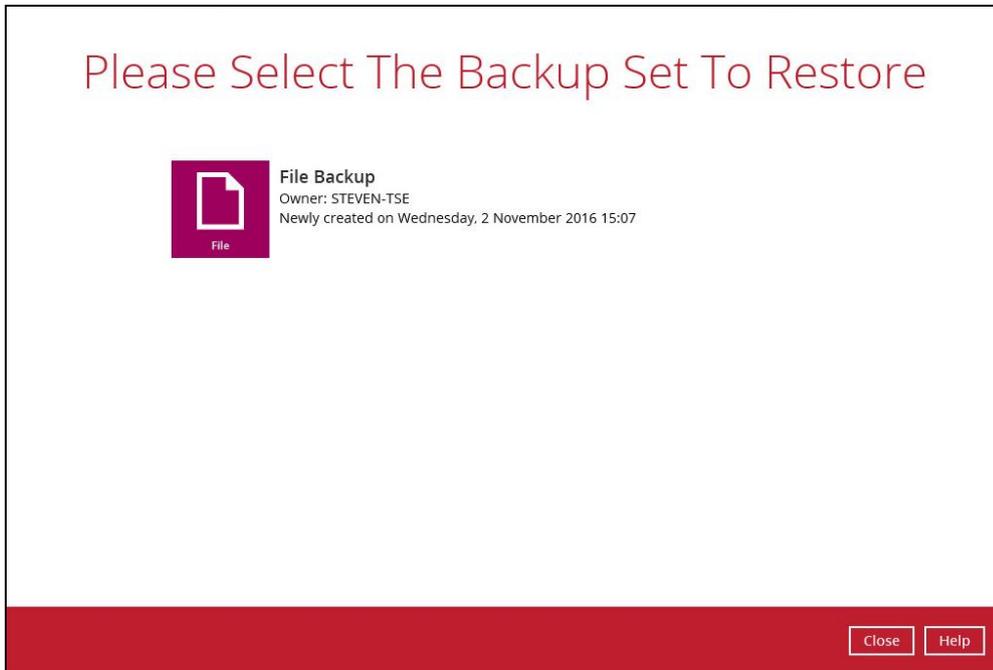
Login to the AhsayOBM application according to the instructions in section 4 [Login to AhsayOBM](#).

### Restore Data

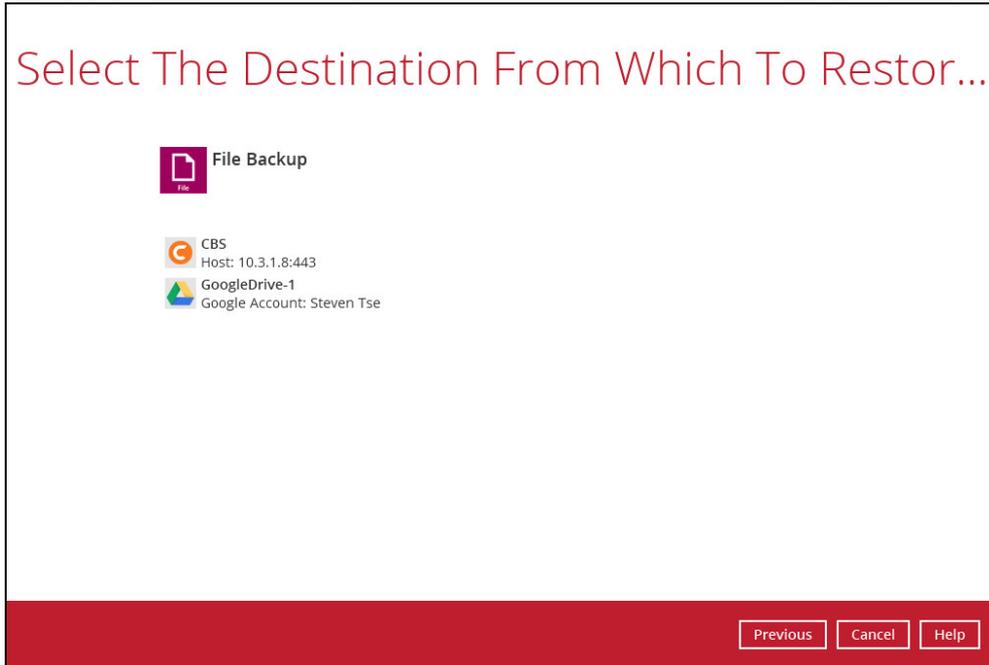
6. Click **Restore** on the AhsayOBM main interface.



7. After logging in to your backup account successfully, you should see a screen showing all the available backup sets for restore. Double click on the one you would like to restore.



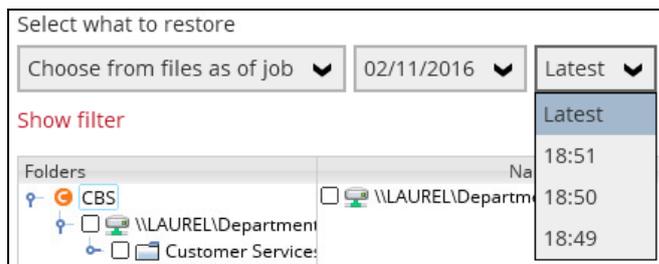
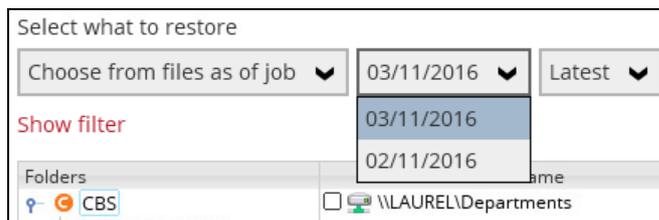
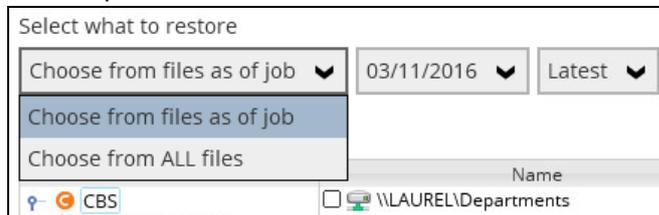
- Click on the location from which you would like to restore the data from.



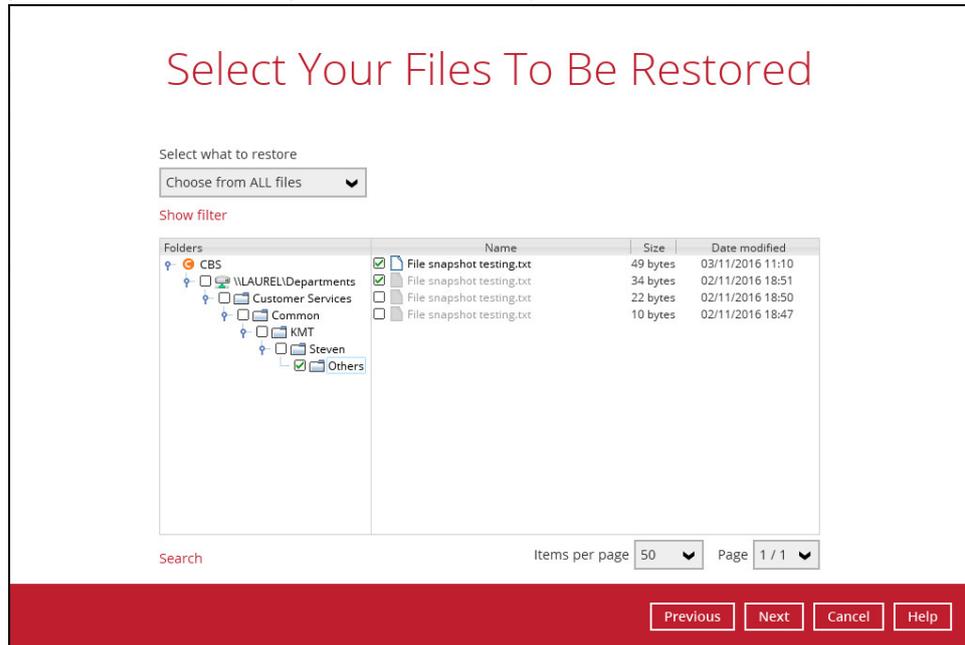
- Select to restore files from a specific backup job, or from all files available, then select the files or folders that you would like to restore.

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.



- **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.



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.

	Name	Size	Date modified
<input checked="" type="checkbox"/>	File snapshot testing.txt	49 bytes	03/11/2016 11:10
<input checked="" type="checkbox"/>	File snapshot testing.txt	34 bytes	02/11/2016 18:51
<input type="checkbox"/>	File snapshot testing.txt	22 bytes	02/11/2016 18:50
<input type="checkbox"/>	File snapshot testing.txt	10 bytes	02/11/2016 18:47

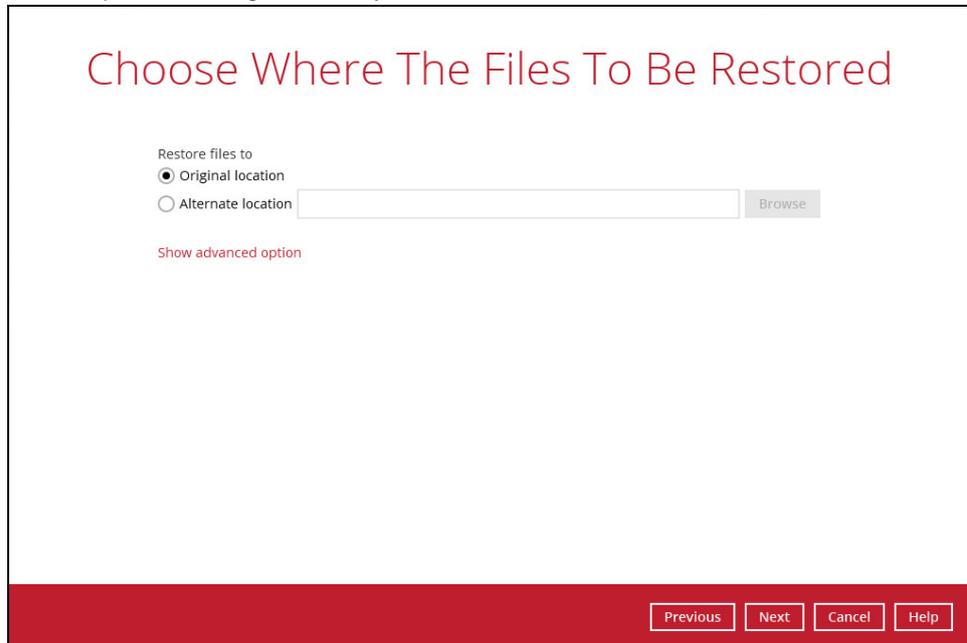
When the restore is done, you will see all the selected backup versions in the restore destination. The latest backup version has the file name as the original file, while the previous versions have the time stamps added to their file names for easy identification.



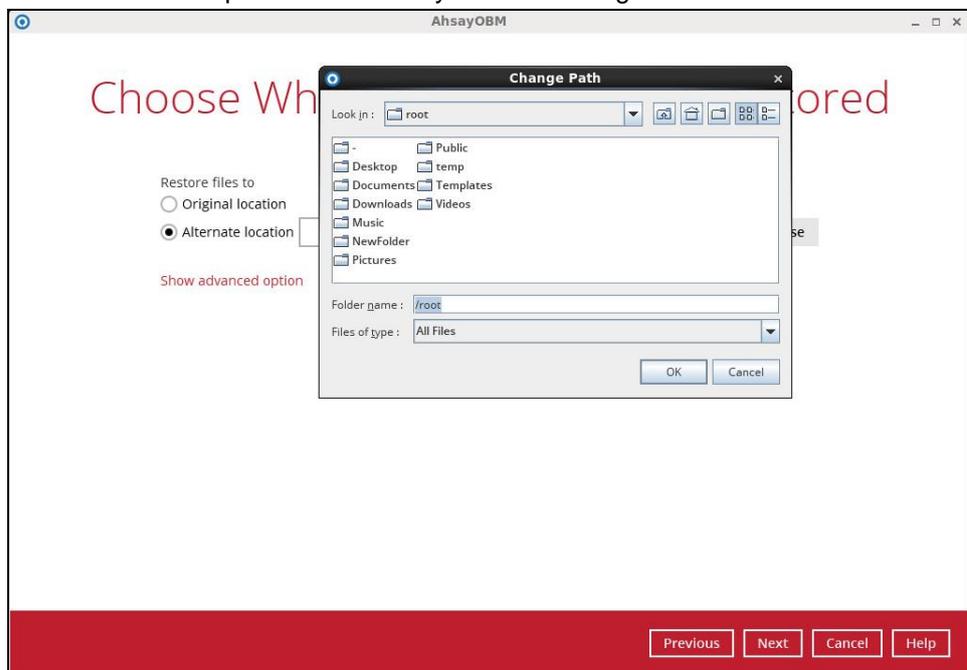
- Click **Next** to proceed when you are done with the selections.

11. 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 AhsayOBR under the same directory path as on the machine storing the backup source. For example, if the backup source files are stored under **root/Downloads** folder, the data will be restored to **root/Downloads** as well on the computer running the AhsayOBR.



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



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

Choose Where The Files To Be

Restore files to

Original location

Alternate location

Show advanced option

Restore file permissions

Delete extra files

Follow Link

Resolve Link

Hide advanced option

⦿ **Restore file permissions**

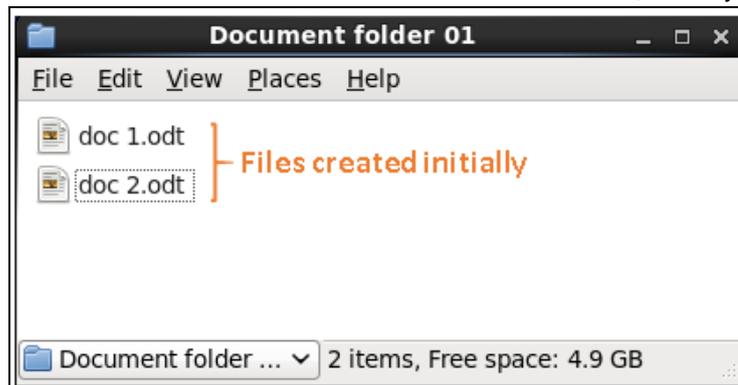
By enabling this option, file permissions of the operating system files will be restored. File permission defines, for example, the right to view or change a file by the system owner/group/individual. If file permission is not restored properly, there is a potential risk that the restored data could be viewed by group/individual who is not supposed to have the access to.

⦿ **Delete extra files**

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.

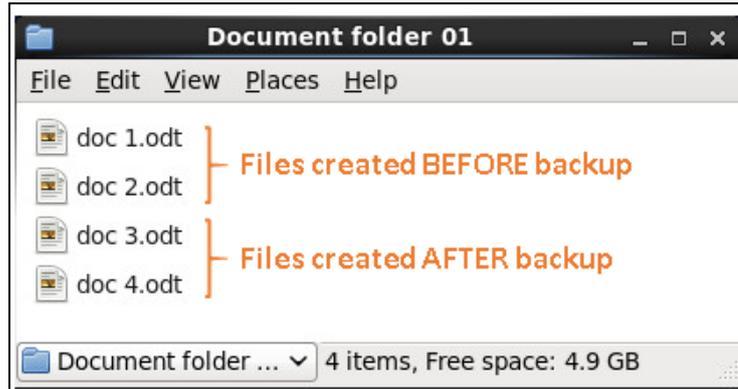
**Example:**

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

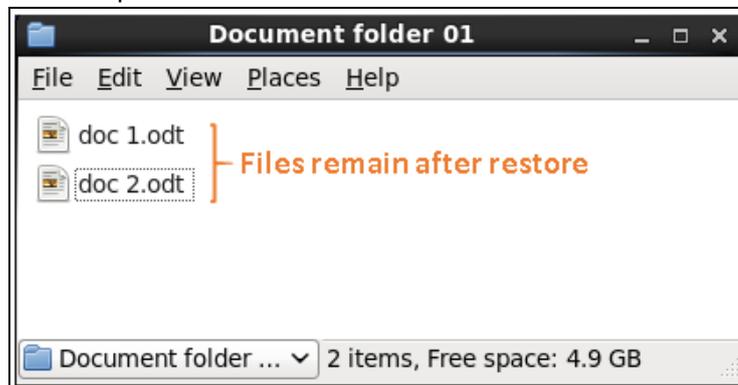


- ii) A backup is performed for folder **Document folder 01**.

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



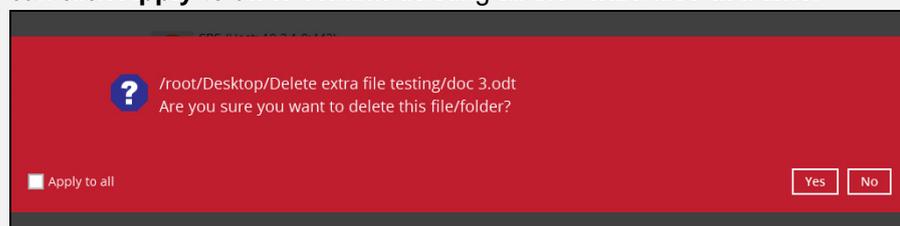
- iv) A restore is performed for the **Document folder 01**, with **Delete extra files** option enabled.
- v) Since doc 3 & doc 4 have never been backed up, therefore they will be deleted from **Document folder 01**, leaving only the two files that have been backed up.



### 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 is deleted.

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



⦿ **Follow Link (Enabled by default)**

When this option is enabled, not only the symbolic link will be restored, the directories and files that the symbolic link 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 is restored to the original backup location. Target directories or files are also restored to the original backup location.
	Alternate location	Symbolic link is restored to the location specified. Target directories or files are also restored to the alternate location specified.
Disabled	Original location	Symbolic link is restored to the original backup location. Target directories or files are NOT restored to the original backup location.
	Alternate location	Symbolic link is restored to the location specified. Target directories or files are NOT restored to the alternate location specified.

⦿ **Resolve Link (Only for restoring to Alternate Location)**

This option must be used in conjunction with the **Follow Link** option. When this option is enabled, the symbolic link, as well as the directories and files that the symbolic link links to will also be restored in the alternate location you have chosen. That means the symbolic link will point to the alternate location instead of the original location.

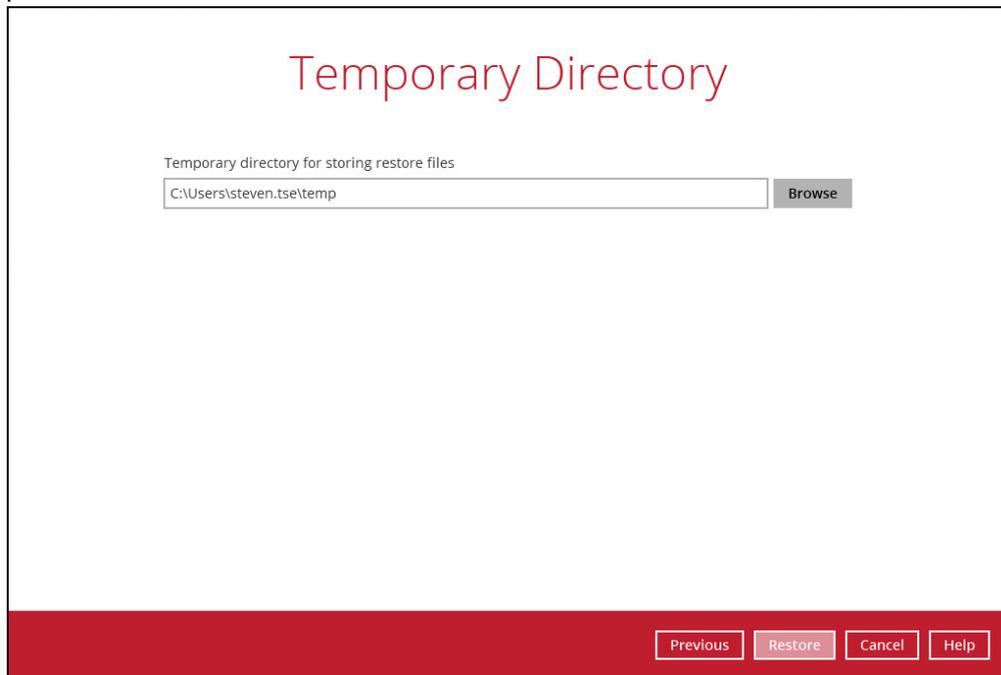
The table below summarizes the behaviors when a restore is performed with this option turned on and off.

Resolve Link	Behavior
Enabled	Symbolic link is restored to the alternate location specified, with its target directories and files also restored to the same location in their relative path. Target of the link is updated to the new relative path. In other word, the link now points to the new alternate location.
Disabled	Symbolic link is restored to the alternate location specified, with its target directories and files also restored to the same location in their relative path. However, target of the link is NOT updated to the new

relative path. In other word, the link still points to the original location.

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

By default, the temporary files are stored under the temp directory of the user profile directory. However, there is a chance that the same directory path does not exist in the computer you are running the AhsayOBR. In that case, you will have to click **Browse** to define a new location for storing the temporary files, otherwise you will not be able to perform a restore.



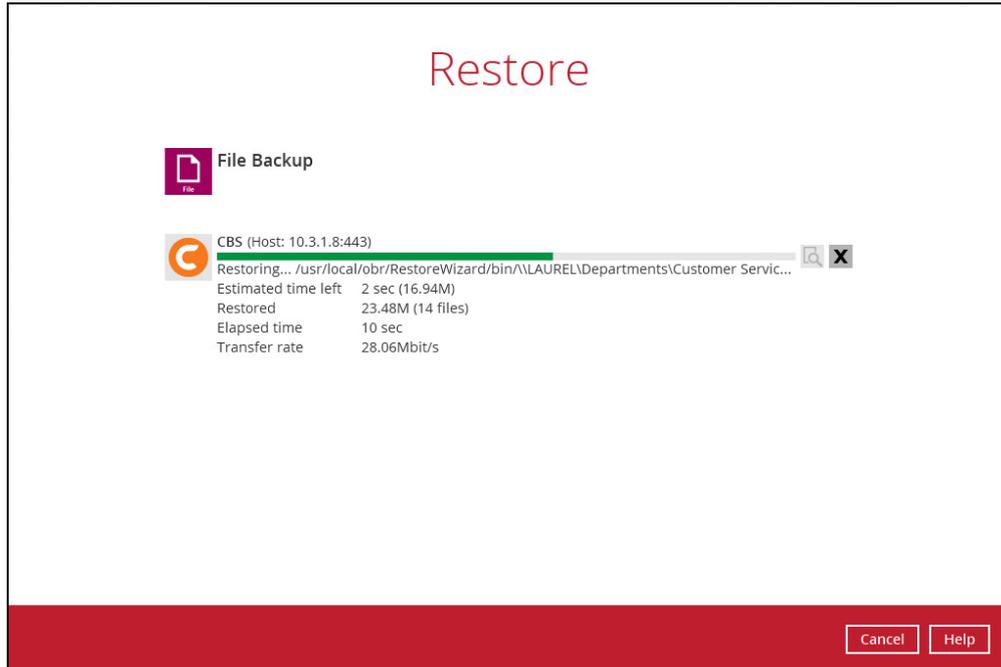
Temporary Directory

Temporary directory for storing restore files

C:\Users\steven.tse\temp

15. Click **Restore** to start the restore.

16. You will see a screen like the one shown below with the restore progress bar.



17. The progress bar shows **Restore Completed Successfully** when the restore is done. Click **Close** to exit the confirmation screen.

18. To exit AhsayOBR, click **Cancel** and then **Yes**, it will then be closed completely. If you wish to use the AhsayOBR again, you will then have to install it again according to the instructions in [Installing AhsayOBR](#).

## 10 Contacting 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 Knowledge Base for resource such as Hardware Compatibility List, Software Compatibility List, and other product information:

<https://forum.ahsay.com>

### Documentation

Documentations for all Ahsay products are available at:

[https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay\\_downloads\\_documentation\\_guides](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:

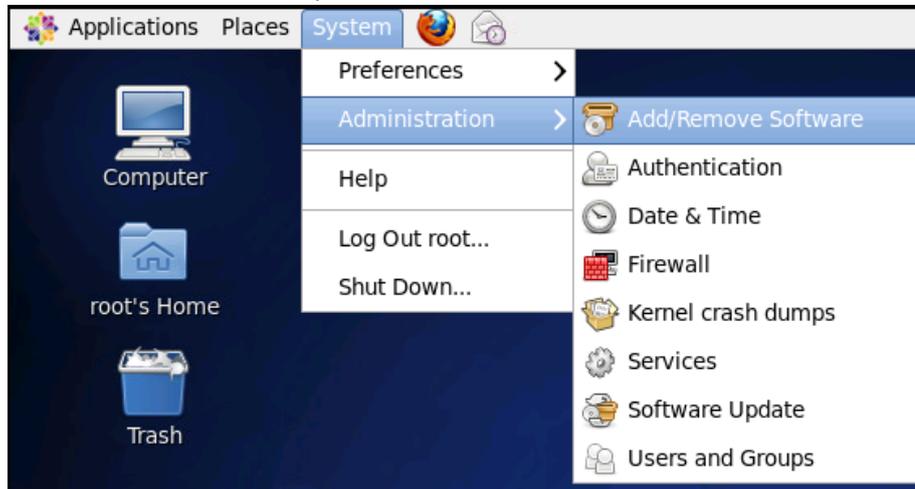
<https://www.ahsay.com/jsp/en/contact/kbQuestion.jsp>

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

# Appendix

## Uninstall AhsayOBM (rpm)

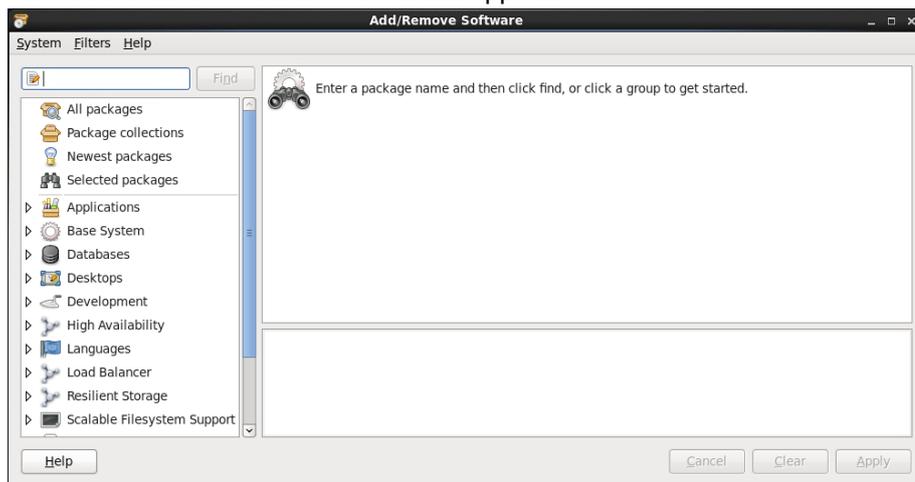
1. Under the **System** menu bar on the top of the screen, select the **Administration > Add/Remove Software** option.



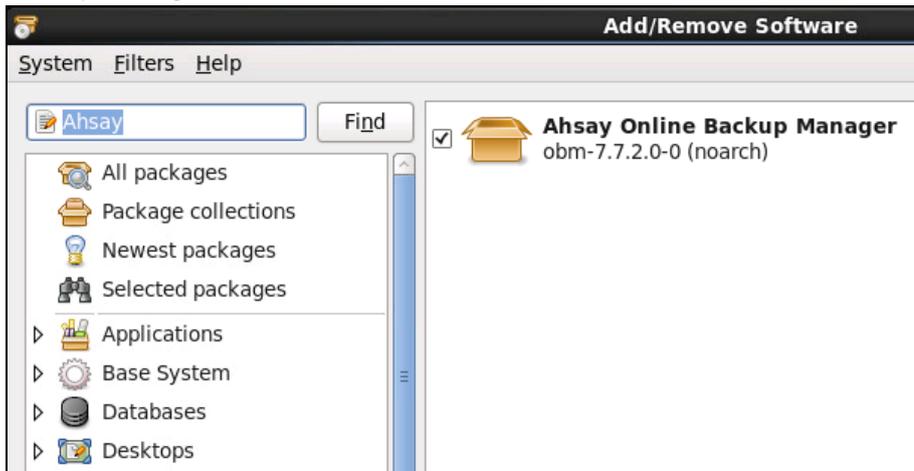
2. When the following warning message appears, click **Continue Anyway** to proceed.



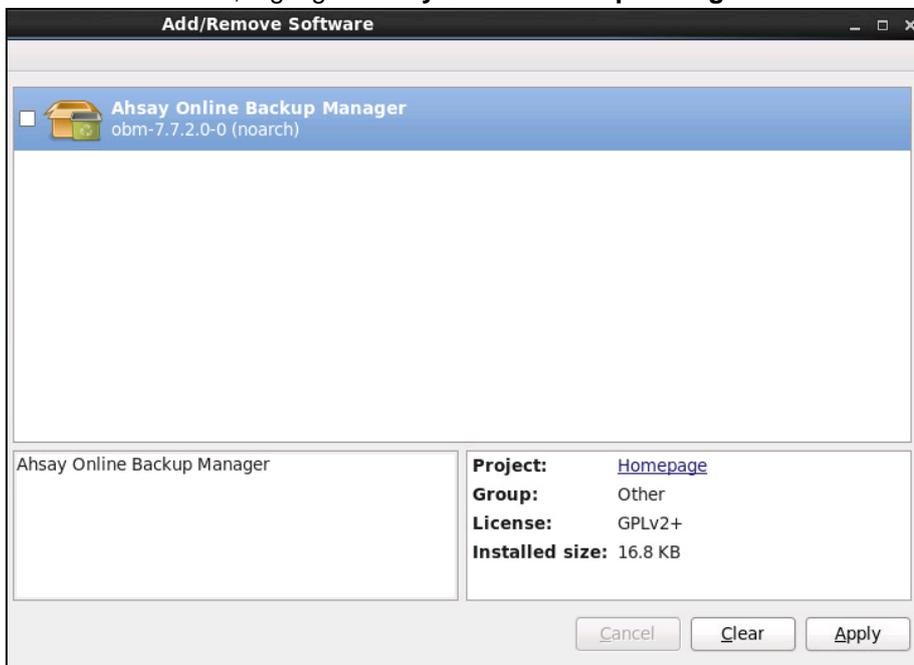
3. The Add/Remove Software screen will appear.



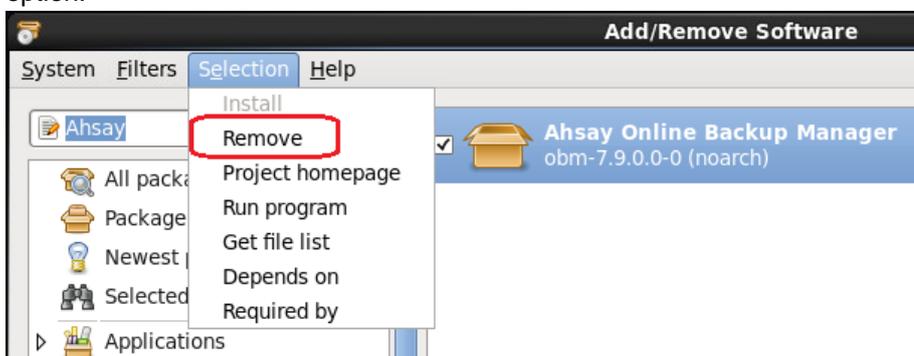
4. At the top left corner, type “Ahsay” as the keyword and click **Find** to search for Ahsay Online Backup Manager.



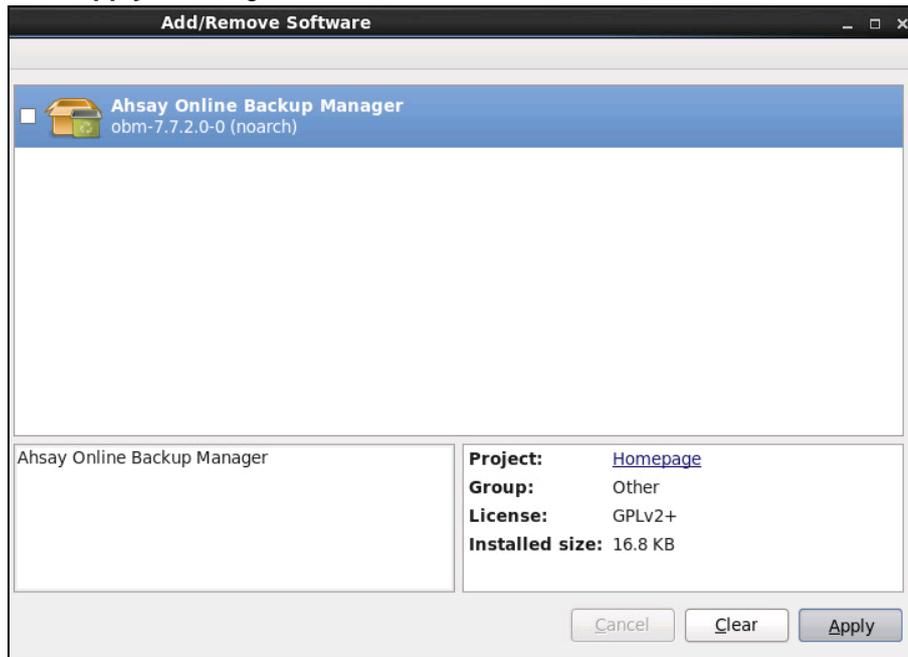
5. In the search result, highlight **Ahsay Online Backup Manager**.



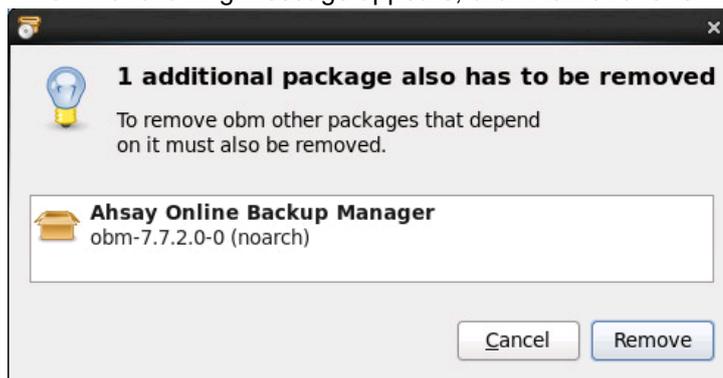
6. The **Selection** menu bar will become available on the top of the screen. Select the **Remove** option.



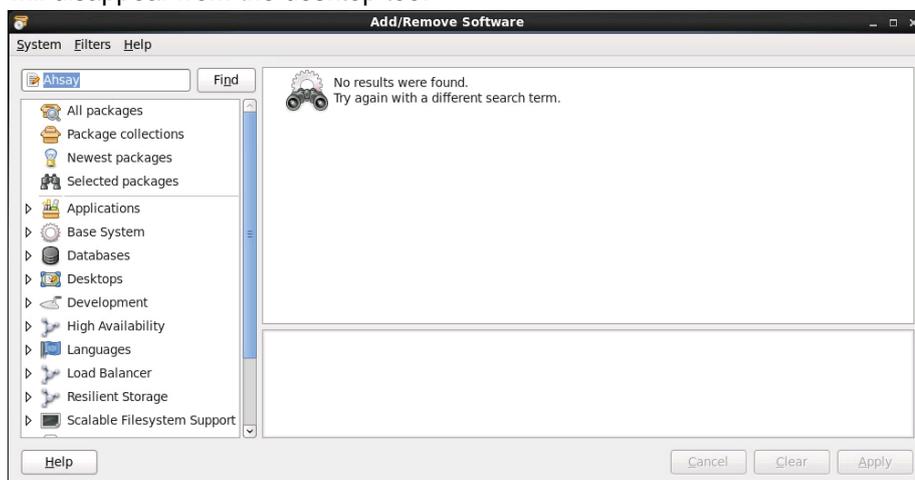
7. Click **Apply** at the right bottom corner to start the uninstallation.



8. When the following message appears, click **Remove** to remove the obm package.

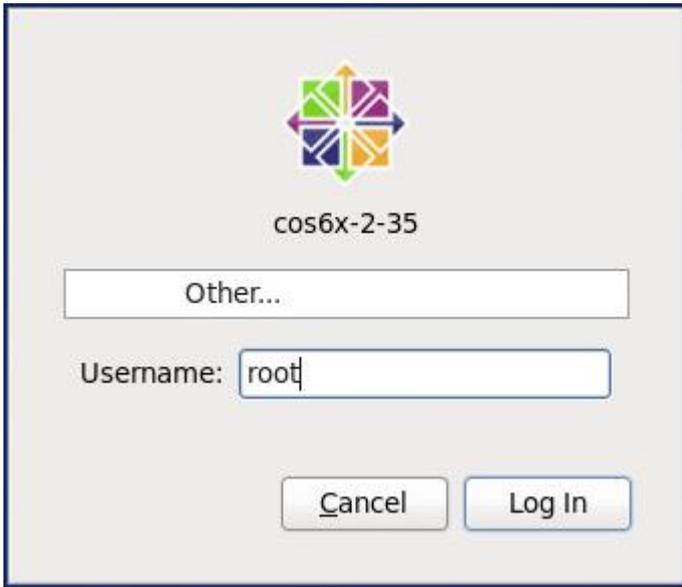


9. Upon successful uninstallation of AhsayOBM, Ahsay Online Backup Manager will disappear from the search result. Close the **Add/Remove Software window** and the AhsayOBM icon will disappear from the desktop too.



## Uninstall AhsayOBM (sh)

1. Login to the Linux machine using the root account.



2. Double-click the **Terminal** icon to launch the application.



3. Go to the `/usr/local/obm/bin` directory.

```
# cd /usr/local/obm/bin
```

4. Uninstall AhsayOBM with the `sh` command:

```
# sh uninstall.sh
```

5. The uninstallation is completed when "Ahsay Online Backup Manager uninstall procedure is complete!" shows at the end of the script.

```
# sh uninstall.sh
Log Time: Thu Nov 17 13:37:09 HKT 2016

Verifying current user privilege ...
Current user has enough privilege to "uninstall".

Uninstall Ahsay Online Backup Manager from /usr/local/obm

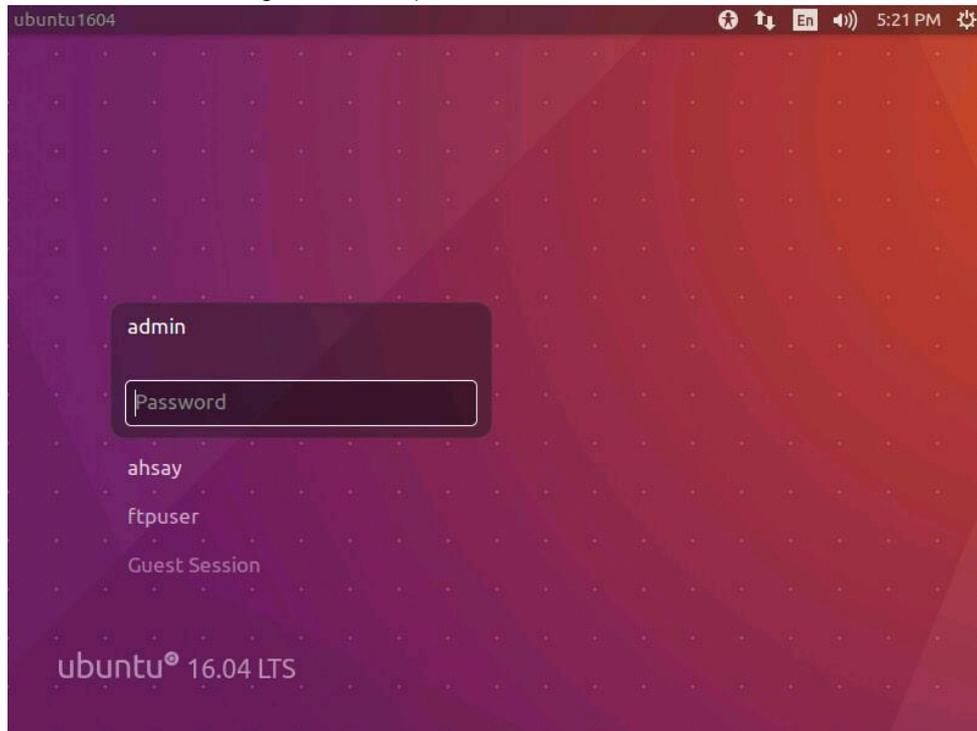
Shutting down Scheduler
Wait 5 seconds before Scheduler exits
Kill running Ahsay Online Backup Manager
Kill Process by Image Name: /usr/local/obm/jvm/bin/bJW
Ignore Process by Image Name:
```

```
Kill Process by Image Name: /usr/local/obm/jvm/bin/bschJW
Ignore Process by Image Name:
Kill Process by Image Name: /usr/local/obm/jvm/bin/java
Ignore Process by Image Name:
Removing Scheduler script obmscheduler from service
Uninstall Service for NIX type OS
Using init script path /etc/init.d
Using run level script path /etc/rc.d
Removing symbolic link from run levels
Removing script file obmscheduler from /etc/init.d
Remove shortcut /usr/share/applications/obm.desktop
Remove shortcut /root/Desktop/obm.desktop
Ahsay Online Backup Manager uninstall procedure is complete!
It is now safe to remove files from /usr/local/obm
```

6. Upon successful uninstallation, the AhsayOBM icon will disappear from the desktop.

## Uninstall AhsayOBM (deb)

1. Login as admin on Ubuntu GUI. (Alternatively, you can remotely invoke the GUI of another Ubuntu machine using SSH client.)



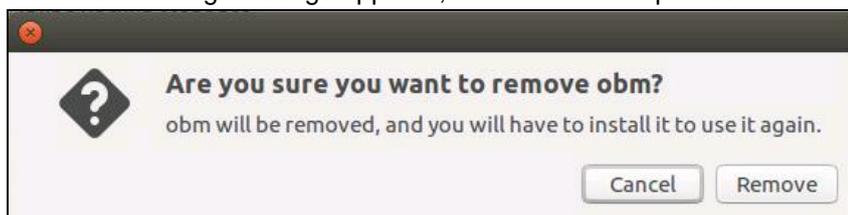
2. Click on **Ubuntu Software**.



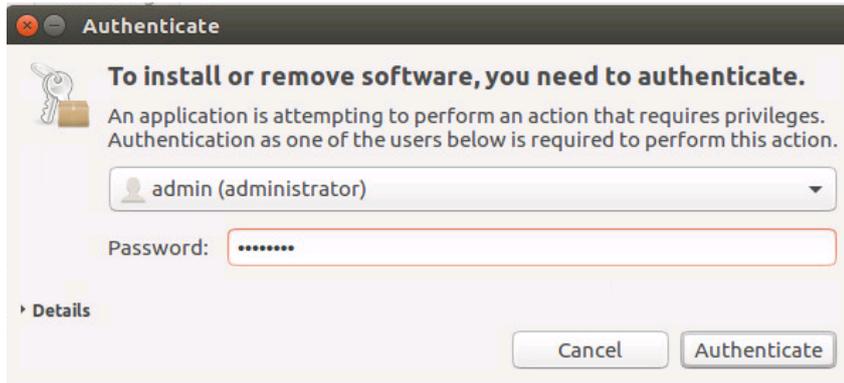
3. Click on **Remove** to remove the obm package.



4. When the following message appears, click **Remove** to proceed.



5. Enter the admin account credentials to authenticate.



6. Upon successful uninstallation, the AhsayOBM icon will disappear from the Applications.

## Handling of Non-regular Files

The following non-regular files/folders such as device files, block files, virtual files systems, pseudo file systems etc will be automatically ignored if selected for backup. Backup log entries of these files/folders will not appear in the backup logs.

Example:

```
/proc  
/dev  
/sys  
/run
```

For AhsayOBM installations on Linux GUI, these devices will not be shown on the backup source screen.