

Ahsay Online Backup Restorer v8 User Guide for Linux (GUI)

Ahsay Systems Corporation Limited

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Revision History

Date	Descriptions	Type of modification
12 March 2021	Modified System Architecture diagram in Ch. 1.2; Modified features comparison table in Ch. 1.4; Added Requirements in Ch. 3; Added Ch. 4 Limitations; Added login scenarios in Ch. 6	New / Modifications

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1 Overview

1.1 What is this software?

Ahsay brings you specialized restore software, namely Ahsay Online Backup Restorer (AhsayOBR), to provide a quick and secure solution for restoring your backup data anytime and anywhere. This software is designed specifically as a one-time restorer and is not served for performing backup and configuring any backup user settings. The software supports restoring data that is backed up with AhsayOBM or AhsayACB.

1.2 System Architecture

Below is the system architecture diagram illustrating the major elements involved in the process when you are using the AhsayOBR to restore data.

In this user guide, we will focus on information to get you started with using the software, as well as instructions on performing an end-to-end restore process.



*Original location – the backed up data will be restored on the computer running the AhsayOBR under the same directory path as on the machine storing the backup source. For example, the backup source files are stored in root/Downloads same as on the computer running the AhsayOBR.



1.3 Why should I use AhsayOBR to restore backup data?

Z Restore Anywhere

There may be times when you wish to restore your backed up data but have no access to the computer with the Client Backup Agent (AhsayOBM/AhsayACB) installed. AhsayOBR is exactly designed to cater to your needs under such circumstances.

You can now download and launch the AhsayOBR anytime and anywhere you like as long as you have a computer with a web browser installed and Internet connection.

Fast Download and Launch

Unlike a Client Backup Agent (AhsayOBM/AhsayACB) which is significantly larger in file size and takes longer time to install on your computer, AhsayOBR is a compact solution that can be downloaded and launched in a short period of time in just a few clicks.

Besides, the AhsayOBR is designed as a one-time restorer that will be removed from your computer completely after it is closed. All the restore log files or settings will also be removed from the computer altogether so you would not need to spend the time on uninstalling the software after you finished the restore.

Leave no Footprint

When you are trying to restore your backed up data remotely, the computer you use for restoring may not have the same level of security settings as the one you normally use for backup and restore onsite. Therefore, it may not be completely secure to install a Client Backup Agent (AhsayOBM/AhsayACB) to restore data because the backup agent will store information such as the backup user's personal info, backup set settings, backup/restore logs, etc. Using a Client Backup Agent for restore under such circumstances may pose potential threat to your personal and confidential information.

That is why the AhsayOBR is designed as a single-purpose restorer with high level of security protection and supporting Two-Factor Authentication (2FA). The restorer takes you right to the restore start point after login, where you can start performing a restore right away. It will also be removed completely after the restore is done, so you do not have to worry about leaving important information behind in the restore logs which could be viewed by a third party.

1.4 Features comparison between Client Backup Agent and AhsayOBR

While you can still download a Client Backup Agent (AhsayOBM/AhsayACB) to restore data, AhsayOBR gives a quick, direct and secure solution just for the data restore purpose. Below is a table comparing some major features of both tools, and the pros and cons of using them.

Feature	Tool	Pros	Cons
Installation	AhsayOBR	 No installation required Faster to launch 	Required to launch every time you use
	Client Backup Agent	One-time installation	Larger installer size hence longer installation time
Cross platform usage	AhsayOBR	Although both tools are available for use on various platforms, e.g., Windows, Mac, Linux, FreeBSD etc., cross	
	Client Backup Agent	platform restore is NOT recommended. For example, files backed up on Windows are not recommended to restore on a Mac/Linux/FreeBSD machine. Not supported on Synology DSM or QNAP QTS platforms.	
Compatibility	AhsayOBR	N/A	Does not support restore of photos and videos backed up using Ahsay Mobile.
	Client Backup Agent	N/A	Support restore of backup set created by the same type of Client Backup Agent only. Example: backup set created
			on AhsayOBM can only be restored by AhsayOBM.

2 About This Document

2.1 What is the purpose of this document?

This document aims at introducing the AhsayOBR software and its features, providing all necessary information to download and launch the AhsayOBR software and instructions on performing restore.

2.2 What should I expect from this document?

After reading through this documentation, you can expect to have sufficient knowledge to download and launch the AhsayOBR software, as well as to perform a restore

2.3 Who should read this document?

This document is intended for backup users who need to perform restore while having no access to their Client Backup Agent (AhsayOBM/AhsayACB) or for those who need to quickly recover file(s) on another machine or device with minimal effort.

2.4 Overview of the Document Content Structure

Below is a flow chart illustrating the major chapters this document will cover in sequence.



3 Prepare for Using AhsayOBR

3.1 Hardware Requirements

You can launch the AhsayOBR on a physical machine or on a virtual machine. The hardware requirements for launching AhsayOBR is the same as installing AhsayOBM.

Refer to the link below for details of the minimum and recommended hardware requirements: FAQ: Ahsay Hardware Requirement List (HRL) for version 8.1 or above

3.2 Software Requirements

Make sure that Linux is installed with GUI desktop environment, i.e., GNOME, KDE, Cinnamon, etc.

- OpenJDK Version 1.8 <u>https://www.freebsd.org/java/</u> The installed Java Development Kit must at least be version 8.
- GNU LIBC 2.14 <u>https://www.gnu.org/software/libc/</u> The installed 'GNU LIBC' must at least be version 2.14 for OpenJDK 8 to work.
- tar https://www.gnu.org/software/tar The 'tar' command is used to uncompress or extract installation files or components of AhsayOBR for both online and offline installations.

Refer to the link below to see the list of the system requirements for software compatibility: FAQ: Ahsay Software Compatibility List (SCL) for version 8.1 or above

3.3 Encryption Key

If the backup set(s) are enabled with an encryption key, then the encryption key for the backup set(s) is required.

3.4 Temporary Directory Requirement

The temporary directory folder should have at least the same available size as the compressed or image file to be restored and should be located on a local drive to ensure optimal performance.

4 Limitations

- 1. AhsayOBR is not supported on Synology DSM or QNAP QTS platforms.
- 2. AhsayOBR does not support restore of photos and videos backed up using Ahsay Mobile.

5 Download and Launch AhsayOBR

There are two ways to download and launch the AhsayOBR on your Linux machine. You can either use the Linux GUI directly on the machine itself **OR** remotely access the Linux machine via SSH client with X11 forwarding.

There are two installation modes of AhsayOBR, online installation and offline installation. Below is the table of comparison between online installation and offline installation.

	Online Installation	Offline Installation
Installation Time	 Takes more time as it needs to download the binary and component files (150MB to 272MB depending on operating system) each time the installation is run. Online installer size is 9KB to 2MB depending on operating system as it contains only the initial installation package files. 	 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 can be reused many times. Offline installer size is 150MB to 272MB depending on operating system as it contains all the necessary binary and component files.
Deployments	 Suitable for sites with fast and stable internet connection as internet connection is needed each time when an installation is run. A slow internet connection will result in longer installation time and interrupted, or unstable internet connection may lead to unsuccessful installation. Ensures the latest version of the product is installed. 	 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. May not be the latest version.

5.1 Method 1 – Using Linux GUI

This section aims at providing instructions on downloading and launching AhsayOBR using the Linux GUI directly on the machine.

5.1.1 Download AhsayOBR

1. Download the AhsayOBR from your backup service provider's website. Click the blue download icon at the top right corner as shown below.





2. In the **Restore** tab of the download page, choose the AhsayOBR installer for the appropriate operating system.

G AhsayCBS	
AhsayOBM AhsayACB Mobile Rest	pre
Choose operating system.	
Windows	📩 Download (Online)
💣 Mac OS X	📩 Download (Online)
👌 Linux	➡ Download (Online) ➡ Download (Offline)
🧉 FreeBSD	📩 Download (Online)
solaris (x86)	📩 Download (Online)
Ubuntu	➡ Download (Online) ➡ Download (Offline)

3. In the Linux section, click on the **Download (Online)** or **Download (Offline)** button to download the AhsayOBR installation package.

A Linux	🛃 Download (Online)
	🛃 Download (Offline)

5.1.2 Launch AhsayOBR

Option 1: Online Installation

1. Create a folder under the **/usr/local** directory. You could name the folder **obr**.

<	> 💽 usr local	obr	Q = = -	✓ Ξ _ □ ×
0	Recent			
ώ	Home	bin	cbs	etc
۵	Documents			
⇒	Downloads			
5	Music	games	include	lib
Ø	Pictures			
	Videos	lib64	libexec	obm
٦	Trash			
G	Floppy Disk	obr	sbin	share
2	Computer		SDIT	Share
Ŏ,	Browse Network			
모	Connect to Server	src	″obr" s	elected (containing 0 item)

2. Open the folder and then move the file you have just downloaded into it.

< > < Downloads	→ Q = . v = . v
⊘ Recent	
🏠 Home	obr-linux-443-
Documents	10.90.10.11-https-
🕹 Downloads	341320.sh
dd Music	
Pictures	
Videos	
🗑 Trash	
🖬 Floppy Disk	
Computer	
Browse Network	
Connect to Server	

3. Click Applications at the top menu bar, then select Utilities>Terminal.

8	Applications 🔻	Places -		
	-	1		
	Favorites		Dictionary	
	Accessories		-	
	Documentation		Disk Usage Analyzer	
	Graphics		Z Disks	
	Internet		Ocument Viewer	
	Office			
	Sound & Video		ab Font Viewer	
	Sundry		🔞 Image Viewer	
	System Tools			
	Utilities		Passwords and Keys	
	Other		Remote Desktop Viewer	
			Screenshot	
			Terminal	
	Activities Overv	riew.	Tweak Tool	

- 4. Use the command highlighted in red to enter the usr/local/obr folder.
 [root@[machine's name]~]# cd /usr/local/obr
- 5. Use the command highlighted in red to execute the launcher.

[root@[machine's name] obr]# sh [name of the file you
downloaded]

6. The following scripts show while the launcher is being downloaded.

```
Host address: https://10.90.10.11:443
Downloading file... jre-std-linux-amd64.tar.gz
  % Total % Received % Xferd Average Speed
                                             Time
Time
       Time Current
                              Dload Upload
                                             Total
       Left Speed
Spent
100 91.3M 100 91.3M 0
                           0 3849k
                                       0 0:00:24
0:00:24 --:-- 7860k
Download file completed
Untar component file to /tmp/_obm.190109173535/jvm
Downloading file... app-common.tar.gz
 % Total % Received % Xferd Average Speed
                                             Time
Time
       Time Current
                              Dload Upload
                                             Total
       Left Speed
Spent
100 34.9M 100 34.9M
                           0 1552k
                                       0 0:00:23
                      0
0:00:23 --:-- 3279k
Download file completed
Untar component file to /tmp/_obm.190109173535
Downloading file... app-native-nix-x64.tar.gz
  % Total % Received % Xferd Average Speed
                                             Time
Time Time Current
```

Dload Upload Total Spent Left Speed 100 527k 100 527k 0 0 1808k 0 --:--:--:-- --:-- 1806k Download file completed Untar component file to /tmp/_obm.190109173535 Downloading file... app-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 0 71283 0 --:--:--100 12068 100 12068 0 :-- --:-- 71833 Download file completed Untar component file to /tmp/_obm.190109173535 Downloading file... aua-common.tar.gz % Total % Received % Xferd Average Speed Time Time Current Time Dload Upload Total Spent Left Speed 100 10.9M 100 10.9M 0 0 12.7M 0 --:--:--:-- --:-- 12.7M Download file completed Untar component file to /tmp/ obm.190109173535 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 1712k 0 --:--:--:-- --:-- 1720k Download file completed Untar component file to /tmp/ obm.190109173535 Downloading file... aua-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Left Speed Spent 100 1021 100 1021 0 6906 0 --:--:--0 :-- --:-- 6945 Download file completed Untar component file to /tmp/ obm.190109173535 Downloading file... util-common.tar.gz % Total % Received % Xferd Average Speed Time Time Current Time Dload Upload Total Spent Left Speed 100 4829 100 4829 0 26658 0 --:--:--0 :-- --:-- 26827 Download file completed Untar component file to /tmp/_obm.190109173535 Downloading file... util-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 0 0 455k 100 85206 100 85206 0 --:-- --:--:-- --:-- 457k Download file completed Untar component file to /tmp/_obm.190109173535 Downloading file... properties-common.tar.gz

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Spent Left Speed 100 3583k 0 0 403k 0 ::- 0:00:08 ::- 958k Download file completed Untar component file to /tmp/obm.190109173535 tar: bin/cbCoreRes ar.properties: time stamp 2019-01-09 17:42:39 is<358.596424732	
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<pre>tar: bin/cbCoreRes_pt_BR.properties: time stamp 2019-01-09 17:42:41 is 360.555909406 s in the future tar: bin/cbCoreRes_pt_PT.properties: time stamp 2019-01-09 17:42:41 is 360.554398158 s in the future tar: bin/cbCoreRes_ro.properties: time stamp 2019-01-09 17:42:41 is 360.553126817 s in the future</pre>	
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17:42:41 is 360.554398158 s in the future tar: bin/cbCoreRes_ro.properties: time stamp 2019-01-09 17:42:41 is 360.553126817 s in the future	17:42:41 is 360.555909406 s in the future
<i>tar: bin/cbCoreRes_ro.properties: time stamp 2019-01-09</i> 17:42:41 <i>is 360.553126817 s in the future</i>	
17:42:41 is 360.553126817 s in the future	

17:42:41 is 360.549395328 s in the future tar: bin/cbCoreRes sl.properties: time stamp 2019-01-09 17:42:41 is 360.548078249 s in the future tar: bin/cbCoreRes sv.properties: time stamp 2019-01-09 17:42:41 is 360.546853684 s in the future tar: bin/cbCoreRes th TH.properties: time stamp 2019-01-09 17:42:41 is 360.543930799 s in the future tar: bin/cbCoreRes tr.properties: time stamp 2019-01-09 17:42:41 is 360.542265253 s in the future tar: bin/cbCoreRes uk.properties: time stamp 2019-01-09 17:42:41 is 360.541178512 s in the future tar: bin/cbCoreRes vi.properties: time stamp 2019-01-09 17:42:41 is 360.53951657 s in the future tar: bin/cbCoreRes zh CN.properties: time stamp 2019-01-09 17:42:41 is 360.538023459 s in the future tar: bin/cbCoreRes zh TW.properties: time stamp 2019-01-09 17:42:41 is 360.536403669 s in the future tar: bin/cbUIRes ar.properties: time stamp 2019-01-09 17:42:41 is 360.534535073 s in the future tar: bin/cbUIRes bg.properties: time stamp 2019-01-09 17:42:41 is 360.533500369 s in the future tar: bin/cbUIRes ca.properties: time stamp 2019-01-09 17:42:42 is 361.532461356 s in the future tar: bin/cbUIRes cs.properties: time stamp 2019-01-09 17:42:42 is 361.531406663 s in the future tar: bin/cbUIRes da.properties: time stamp 2019-01-09 17:42:42 is 361.530314089 s in the future tar: bin/cbUIRes de.properties: time stamp 2019-01-09 17:42:42 is 361.529215678 s in the future tar: bin/cbUIRes el.properties: time stamp 2019-01-09 17:42:42 is 361.526784698 s in the future tar: bin/cbUIRes en.properties: time stamp 2019-01-09 17:42:42 is 361.525680165 s in the future tar: bin/cbUIRes es.properties: time stamp 2019-01-09 17:42:42 is 361.5249276 s in the future tar: bin/cbUIRes eu.properties: time stamp 2019-01-09 17:42:42 is 361.523847349 s in the future tar: bin/cbUIRes fi.properties: time stamp 2019-01-09 17:42:42 is 361.52272463 s in the future tar: bin/cbUIRes fr.properties: time stamp 2019-01-09 17:42:42 is 361.521646742 s in the future tar: bin/cbUIRes hu.properties: time stamp 2019-01-09 17:42:42 is 361.520302418 s in the future tar: bin/cbUIRes in.properties: time stamp 2019-01-09 17:42:42 is 361.519535909 s in the future tar: bin/cbUIRes is.properties: time stamp 2019-01-09 17:42:42 is 361.518398962 s in the future tar: bin/cbUIRes it.properties: time stamp 2019-01-09 17:42:42 is 361.517670697 s in the future tar: bin/cbUIRes_iw.properties: time stamp 2019-01-09 17:42:42 is 361.514752017 s in the future tar: bin/cbUIRes ja.properties: time stamp 2019-01-09 17:42:42 is 361.512710622 s in the future tar: bin/cbUIRes ko.properties: time stamp 2019-01-09 17:42:42 is 361.511128047 s in the future tar: bin/cbUIRes_lt.properties: time stamp 2019-01-09 17:42:43 is 362.510003293 s in the future tar: bin/cbUIRes_nl.properties: time stamp 2019-01-09 17:42:43 is 362.509235761 s in the future tar: bin/cbUIRes no.properties: time stamp 2019-01-09 17:42:43 is 362.508022817 s in the future

tar: bin/cbUIRes pl.properties: time stamp 2019-01-09 17:42:43 is 362.506851539 s in the future tar: bin/cbUIRes pt BR.properties: time stamp 2019-01-09 17:42:43 is 362.505796059 s in the future tar: bin/cbUIRes pt PT.properties: time stamp 2019-01-09 17:42:43 is 362.504694509 s in the future tar: bin/cbUIRes ro.properties: time stamp 2019-01-09 17:42:43 is 362.503764658 s in the future tar: bin/cbUIRes ru.properties: time stamp 2019-01-09 17:42:43 is 362.501393423 s in the future tar: bin/cbUIRes sl.properties: time stamp 2019-01-09 17:42:43 is 362.50032258 s in the future tar: bin/cbUIRes sv.properties: time stamp 2019-01-09 17:42:43 is 362.49958685 s in the future tar: bin/cbUIRes th TH.properties: time stamp 2019-01-09 17:42:43 is 362.497392194 s in the future tar: bin/cbUIRes tr.properties: time stamp 2019-01-09 17:42:43 is 362.496238999 s in the future tar: bin/cbUIRes uk.properties: time stamp 2019-01-09 17:42:43 is 362.495098537 s in the future tar: bin/cbUIRes vi.properties: time stamp 2019-01-09 17:42:43 is 362.493828154 s in the future tar: bin/cbUIRes zh CN.properties: time stamp 2019-01-09 17:42:43 is 362.492849495 s in the future tar: bin/cbUIRes zh TW.properties: time stamp 2019-01-09 17:42:43 is 362.491641799 s in the future tar: bin/obxRes ar.properties: time stamp 2019-01-09 17:42:43 is 362.489021674 s in the future tar: bin/obxRes bg.properties: time stamp 2019-01-09 17:42:43 is 362.487151014 s in the future tar: bin/obxRes ca.properties: time stamp 2019-01-09 17:42:44 is 363.485869796 s in the future tar: bin/obxRes cs.properties: time stamp 2019-01-09 17:42:44 is 363.484352118 s in the future tar: bin/obxRes da.properties: time stamp 2019-01-09 17:42:44 is 363.482998145 s in the future tar: bin/obxRes de.properties: time stamp 2019-01-09 17:42:44 is 363.481394325 s in the future tar: bin/obxRes el.properties: time stamp 2019-01-09 17:42:44 is 363.477033277 s in the future tar: bin/obxRes_en.properties: time stamp 2019-01-09 17:42:44 is 363.475742797 s in the future tar: bin/obxRes es.properties: time stamp 2019-01-09 17:42:44 is 363.474252209 s in the future tar: bin/obxRes_eu.properties: time stamp 2019-01-09 17:42:44 is 363.472836967 s in the future tar: bin/obxRes fi.properties: time stamp 2019-01-09 17:42:44 is 363.47150916 s in the future tar: bin/obxRes fr.properties: time stamp 2019-01-09 17:42:44 is 363.469953112 s in the future tar: bin/obxRes hu.properties: time stamp 2019-01-09 17:42:44 is 363.468427951 s in the future tar: bin/obxRes in.properties: time stamp 2019-01-09 17:42:44 is 363.467076463 s in the future tar: bin/obxRes is.properties: time stamp 2019-01-09 17:42:44 is 363.465751325 s in the future tar: bin/obxRes_it.properties: time stamp 2019-01-09 17:42:44 is 363.464380043 s in the future tar: bin/obxRes_iw.properties: time stamp 2019-01-09 17:42:44 is 363.462159867 s in the future tar: bin/obxRes ja.properties: time stamp 2019-01-09

17:42:44 is 363.459996559 s in the future tar: bin/obxRes ko.properties: time stamp 2019-01-09 17:42:45 is 364.458257108 s in the future tar: bin/obxRes lt.properties: time stamp 2019-01-09 17:42:45 is 364.456710062 s in the future tar: bin/obxRes nl.properties: time stamp 2019-01-09 17:42:45 is 364.454474631 s in the future tar: bin/obxRes no.properties: time stamp 2019-01-09 17:42:45 is 364.453375353 s in the future tar: bin/obxRes pl.properties: time stamp 2019-01-09 17:42:45 is 364.451404338 s in the future tar: bin/obxRes pt BR.properties: time stamp 2019-01-09 17:42:45 is 364.450014883 s in the future tar: bin/obxRes pt PT.properties: time stamp 2019-01-09 17:42:45 is 364.448268055 s in the future tar: bin/obxRes ro.properties: time stamp 2019-01-09 17:42:45 is 364.447238648 s in the future tar: bin/obxRes ru.properties: time stamp 2019-01-09 17:42:45 is 364.443575332 s in the future tar: bin/obxRes sl.properties: time stamp 2019-01-09 17:42:45 is 364.441639924 s in the future tar: bin/obxRes sv.properties: time stamp 2019-01-09 17:42:45 is 364.440304617 s in the future tar: bin/obxRes th TH.properties: time stamp 2019-01-09 17:42:45 is 364.43707465 s in the future tar: bin/obxRes tr.properties: time stamp 2019-01-09 17:42:45 is 364.435825477 s in the future tar: bin/obxRes uk.properties: time stamp 2019-01-09 17:42:45 is 364.434420749 s in the future tar: bin/obxRes vi.properties: time stamp 2019-01-09 17:42:45 is 364.43255459 s in the future tar: bin/obxRes zh CN.properties: time stamp 2019-01-09 17:42:45 is 364.430766106 s in the future tar: bin/obxRes zh TW.properties: time stamp 2019-01-09 17:42:46 is 365.429447168 s in the future Downloading file... app-inst-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Left Speed Spent 100 172k 100 172k 0 0 750k 0 --:--:--:-- --:-- 754k Download file completed Untar component file to /tmp/ obm.190109173535 Downloading file... aua-inst-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 100 54564 100 54564 0 0 278k 0 --:--:--:-- --:-- 278k Download file completed Untar component file to /tmp/_obm.190109173535 Configure Application Path: /usr/local/obr/RestoreWizard Log Time: Wed Jan 9 17:36:41 HKT 2019 Verifying current user privilege ... Current user has enough privilege to "config". Start configuration on Generic Linux Platform (Linux)

Installation Path: /usr/local/obr/RestoreWizard Minimum supported JVM version: 1.7 Maximum supported JVM version: 1.8 Current JVM version is supported for installation. Create Backup Manager JVM, Path: /usr/local/obr/RestoreWizard/jvm/bin/bJW Create Scheduler Service JVM, Path: /usr/local/obr/RestoreWizard/jvm/bin/bschJW Setup File Permissions localuser:root being added to access control list Startup Ahsay Online Backup Manager ... Done

7. AhsayOBR is launched successfully when you see the following screen.

AlisuyObin		
	English	~
AhsayOBM		
Login name		
Password		
Save password		
Show advanced option	ок	

Option 2: Offline Installation

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

obr-linux.tar	.gz	
	Open With Archive Manager	
	Open With	+
	Cut	
	Сору	
	Move To	
	Сору То	
	Make Link	
	Rename	
	Move to Trash	
br-linux.tar.g	Extract Here	
	Properties	

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

obr-linux					
< > < obr-linux	>	Q = :::	~ =	-	×
 Recent Home Documents Downloads Music Pictures Videos Trash Floppy Disk Computer Browse Network Connect to Server 	app.pkg	obr-	linux.sh		

3. Create a folder under the /**usr/local** directory. You could name the folder **obr**. Open the folder and then move the file you have just extracted into it.



4. Click Applications at the top menu bar, then select Utilities>Terminal.

Applications 🔻	Places 🔻		
Favorites Accessories		Dictionary	
Documentation		Disk Usage Analyzer	1
Graphics		J Disks	
Internet Office	e	Document Viewer	
Sound & Video	^c t	Font Viewer	I.
Sundry	Ŕ	Image Viewer	I.
System Tools Utilities	2	S Passwords and Keys	
Other		Remote Desktop Viewer	1
	0	Screenshot	÷
	1	Terminal	1
Activities Overv	riew		

- 5. Use the command highlighted in red to enter the /usr/local/obr folder. [root@[machine's name]~]# cd /usr/local/obr
- 6. Use the command highlighted in red to execute the launcher.
 [root@[machine's name] obr]# sh [name of the file you extracted]

7. The following scripts show while the launcher is being launched. The installation is completed when "Done" is displayed at the end of the script.

```
Log Time: Wed Jan 9 17:18:55 HKT 2019
Using package in /usr/local/obr/app.pkg
Package version: 8.0.5.0
Untar jre-std-linux-amd64.tar.gz to
/tmp/_obm.190109171855/jvm
Untar app-common.tar.gz to /tmp/ obm.190109171855
Untar app-native-nix-x64.tar.gz to
/tmp/_obm.190109171855
Untar app-nix-obm.tar.gz to /tmp/_obm.190109171855
Untar aua-common.tar.gz to /tmp/_obm.190109171855
Untar aua-native-nix-x64.tar.gz to
/tmp/_obm.190109171855
Untar aua-nix-obm.tar.gz to /tmp/_obm.190109171855
Untar util-common.tar.gz to /tmp/_obm.190109171855
Untar util-nix-obm.tar.gz to /tmp/_obm.190109171855
Untar properties-common.tar.gz to /tmp/_obm.190109171855
Untar app-inst-nix-obm.tar.gz to /tmp/ obm.190109171855
Untar aua-inst-nix-obm.tar.gz to /tmp/_obm.190109171855
Configure Application Path: /usr/local/obr/RestoreWizard
Log Time: Wed Jan 9 17:19:06 HKT 2019
Verifying current user privilege ...
Current user has enough privilege to "config".
Start configuration on Generic Linux Platform (Linux)
Installation Path: /usr/local/obr/RestoreWizard
Minimum supported JVM version: 1.7
Maximum supported JVM version: 1.8
Current JVM version is supported for installation.
Create Backup Manager JVM, Path:
/usr/local/obr/RestoreWizard/jvm/bin/bJW
Create Scheduler Service JVM, Path:
/usr/local/obr/RestoreWizard/jvm/bin/bschJW
Setup File Permissions
localuser:root being added to access control list
Startup Ahsay Online Backup Manager ...
Done
```



0	AhsayOBM		_ = ×
		English	~
		Light	
	Login		
	Login name	_	
	Password		
	Save password		
	Show advanced option	ок	

5.2 Method 2 – Using SSH to remotely download and launch for a Linux machine with X11 forwarding

This section aims at providing instructions on using an SSH client to remotely log in to the Linux machine on which you wish to download and launch the AhsayOBR. After completing the download and launch, with the use of X Windows System, a projection of the Linux UI image is made possible, where you can follow the on-screen instructions on the AhsayOBR interface to perform a restore remotely.

5.2.1 Download and Launch AhsayOBR

Option 1: Online Installation

- Before logging in to the Linux machine using a ssh client, please make sure that you have the X Windows System installed on the machine, which is used to project the Linux UI image on your Windows. Otherwise, you may refer to the following link to download the application. <u>https://sourceforge.net/projects/xming/</u>
- 2. Launch the SSH client that you are using to connect to the Linux machine.

🕵 PuTTY Configuration	? ×
Category:	
 Session Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet Rlogin SSH Serial 	Basic options for your PuTTY session Specify the destination you want to connect to Host Name (or IP address) Port 22 Connection type: Raw Telnet Raw Telnet Saved Sessions Default Settings Load Save Delete
····· Senal	Close window on exit: Always Never Only on clean exit
About Help	Open Cancel

3. Enter the host name and port of the Linux machine.

🕵 PuTTY Configuration		?	Х
Category: 	Basic options for your PuTTY set Specify the destination you want to connec Host Name (or IP address) 10.90.30.2 Connection type: O Raw O Telnet O Rlogin O SSH Load, save or delete a stored session Saved Sessions Default Settings	ssion ct to Port 22	ial
Data Proxy Telnet		Save	
⊞ SSH Serial	Close window on exit: Always Never Only on cl	ean exit	
About Help	Open	Cance	4

 Navigate to the Connection>SSH>X11 section. Enable the X11 forwarding feature and then enter the "localhost:0.0" on the X display location field to project the Linux UI image on your desired machine.

🕵 PuTTY Configuratio	n	? ×
Category:		
Features ⊡ Window	Options controlling SSH X11 for X11 forwarding	rwarding
Appearance Behaviour	X11 forwarding ✓ Enable X11 forwarding	
···· Translation	X display location localhost:).0
Selection Colours	Remote X11 authentication protocol MIT-Magic-Cookie-1 XDM-A 	uthorization-1
Connection	X authority file for local display	
···· Proxy		Browse
···· Telnet ···· Rlogin		
⊡- SSH		
Host keys		
⊡ Cipher ⊕ Auth		
TTY X11		
···· Tunnels		
···· Bugs ···· More bugs	~	
About	lelp Open	Cancel

5. Click **Open** to connect to the Linux machine when you are done with the settings.

6. Log in using the root account.

Putry 10.90.30.2 - Putry		-	×
login as: root			

7. Enter the password for login if necessary.



8. Create a new folder to launch the AhsayOBR under the **/usr/local** directory using the red command line below.

[root@[machine's name]]# mkdir -p /usr/local/obr

9. Navigate to the folder you have just created using the red command line below.

[root@[machine's name]]# cd /usr/local/obr

10. You now have to copy for download URL of the AhsayOBR Linux launcher from your backup servicer provider. Open the CBS login page provided by your backup service provider on a web browser, then click the blue download icon at the top right corner.

English	>	•
		1

11. Click on the Restore tab.





12. Right click on the **Download (Online)** button in the Linux section, then click on **Copy Link Location** to copy the download URL.

👌 Linux		🛓 Downloa	
Open in new tab Open in new window Open in new InPrivate window	Download (Online) Download (Offline) Download (Online)		
Save target as Copy link	 ▲ Download (Offline) ▲ Download (Online) 		
Add to reading list Search the web for "Download (Online)"	Download (Offline)		
View source Inspect element	➡ Download (Online) ➡ Download (Offline)		

13. Use the wget command in red below to download the AhsayOBR launcher from the AhsayCBS server.

```
[root@[machine's name] obr]# wget --no-check-certificate
   https://10.90.10.11/cbs/download/obr-nix-443-10.90.10.11-
   https-341320.sh
   --2019-01-10 11:31:51--
   https://10.90.10.11/cbs/download/obr-nix-443-10.90.10.11-
   https-341320.sh
   Connecting to 10.90.10.11:443... connected.
   WARNING: cannot verify 10.90.10.11's certificate, issued
   by '/C=CN/ST=Hong Kong (SAR)/L=Hong Kong/O=Ahsay System
   Corporation Limited/OU=Information System
   Department/CN=Ahsay System Corporation
   Limited/emailAddress=ca@ahsay.com':
     Self-signed certificate encountered.
       WARNING: certificate common name 'Not Secure' doesn't
   match requested host name '10.90.10.11'.
   HTTP request sent, awaiting response... 200 OK
   Length: 14267 (14K) [application/octet-stream]
   Saving to: 'obr-nix-443-10.90.10.11-https-341320.sh'
   100%[=====>] 14,267
   --.-K/s in 0s
   2019-01-10 11:31:51 (90.7 MB/s) - 'obr-nix-443-
   10.90.10.11-https-341320.sh' saved [14267/14267]
14. Execute the AhsayOBR launcher using the red command line below.
   [root@[machine's name] obr]sh obr-nix-443-10.90.10.11-
   https-341320.sh
   Log Time: Thu Jan 10 19:12:21 HKT 2019
   Host address: https://10.90.10.11:443
   Downloading file... jre-std-linux-amd64.tar.gz
     % Total % Received % Xferd Average Speed
                                                    Time
```

Time Time Current Dload Upload Total Spent Left Speed 100 91.3M 100 91.3M 0 0 8271k 0 0:00:11 0:00:11 --:-- 16.4M Download file completed Untar component file to /tmp/_obm.190110191221/jvm Downloading file... app-common.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 100 34.9M 100 34.9M 0 0 2057k 0 0:00:17 0:00:17 --:-- 3905k Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... app-native-nix-x64.tar.gz % Total % Received % Xferd Average Speed Time Time Current Time Dload Upload Total Left Speed Spent 100 527k 100 527k 0 2189k 0 --:--:-- --0 :--:-- 2198k Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... app-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 100 12068 100 12068 0 0 91670 0 --:--:-- --:--:-- 92122 Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... aua-common.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 0 13.9M 0 --:--:-- --100 10.9M 100 10.9M 0 :--:-- 13.8M Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... aua-native-nix-x64.tar.gz % Total % Received % Xferd Average Speed Time Time Current Time Dload Upload Total Spent Left Speed 0 0 2395k 0 --:--:-- --100 440k 100 440k :--:-- 2393k Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... aua-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 100 1021 100 1021 0 0 6953 0 --:--:-- --:--:-- 6993 Download file completed Untar component file to /tmp/ obm.190110191221

Downloading file... util-common.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Left Speed Spent 100 4829 100 4829 0 0 30207 0 --:-- --:--:-- 30371 Download file completed Untar component file to /tmp/_obm.190110191221 Downloading file... util-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Left Speed Spent 100 85206 100 85206 0 0 523k 0 --:--:--:--:-- 526k Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... properties-common.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Left Speed Spent. 100 3583k 0 3583k 0 1169k 0 --:--:--0 0:00:03 --:-- 1169k Download file completed Untar component file to /tmp/ obm.190110191221 tar: bin/cbCoreRes ar.properties: time stamp 2019-01-10 19:19:13 is 364.00996201 8 s in the future tar: bin/cbCoreRes bg.properties: time stamp 2019-01-10 19:19:13 is 364.00798755 5 s in the future tar: bin/cbCoreRes ca.properties: time stamp 2019-01-10 19:19:13 is 364.00639365 1 s in the future tar: bin/cbCoreRes cs.properties: time stamp 2019-01-10 19:19:13 is 364.00486898 6 s in the future tar: bin/cbCoreRes da.properties: time stamp 2019-01-10 19:19:13 is 364.00353021 5 s in the future tar: bin/cbCoreRes de.properties: time stamp 2019-01-10 19:19:13 is 364.00220365 9 s in the future tar: bin/cbCoreRes el.properties: time stamp 2019-01-10 19:19:13 is 363.99877298 9 s in the future tar: bin/cbCoreRes en.properties: time stamp 2019-01-10 19:19:13 is 363.99769331 2 s in the future tar: bin/cbCoreRes es.properties: time stamp 2019-01-10 19:19:13 is 363.99634949 1 s in the future tar: bin/cbCoreRes eu.properties: time stamp 2019-01-10 19:19:13 is 363.99498788 7 s in the future tar: bin/cbCoreRes fi.properties: time stamp 2019-01-10 19:19:13 is 363.99340698 3 s in the future tar: bin/cbCoreRes fr.properties: time stamp 2019-01-10

19:19:13 is 363.99207223 s in the future tar: bin/cbCoreRes hu.properties: time stamp 2019-01-10 19:19:13 is 363.99024560 9 s in the future tar: bin/cbCoreRes in.properties: time stamp 2019-01-10 19:19:13 is 363.98905389 9 s in the future tar: bin/cbCoreRes is.properties: time stamp 2019-01-10 19:19:13 is 363.98768006 7 s in the future tar: bin/cbCoreRes it.properties: time stamp 2019-01-10 19:19:13 is 363.98638402 s in the future tar: bin/cbCoreRes iw.properties: time stamp 2019-01-10 19:19:13 is 363.98399312 1 s in the future tar: bin/cbCoreRes ja.properties: time stamp 2019-01-10 19:19:13 is 363.98176626 3 s in the future tar: bin/cbCoreRes ko.properties: time stamp 2019-01-10 19:19:13 is 363.97997839 7 s in the future tar: bin/cbCoreRes lt.properties: time stamp 2019-01-10 19:19:13 is 363.97841959 5 s in the future tar: bin/cbCoreRes nl.properties: time stamp 2019-01-10 19:19:13 is 363.97681824 2 s in the future tar: bin/cbCoreRes no.properties: time stamp 2019-01-10 19:19:13 is 363.97511530 2 s in the future tar: bin/cbCoreRes pl.properties: time stamp 2019-01-10 19:19:13 is 363.97304155 4 s in the future tar: bin/cbCoreRes pt BR.properties: time stamp 2019-01-10 19:19:13 is 363.97141 2203 s in the future tar: bin/cbCoreRes pt PT.properties: time stamp 2019-01-10 19:19:13 is 363.97016 3236 s in the future tar: bin/cbCoreRes ro.properties: time stamp 2019-01-10 19:19:13 is 363.96881652 5 s in the future tar: bin/cbCoreRes ru.properties: time stamp 2019-01-10 19:19:13 is 363.96525161 6 s in the future tar: bin/cbCoreRes sl.properties: time stamp 2019-01-10 19:19:13 is 363.96388018 7 s in the future tar: bin/cbCoreRes sv.properties: time stamp 2019-01-10 19:19:13 is 363.96245301 3 s in the future tar: bin/cbCoreRes th TH.properties: time stamp 2019-01-10 19:19:13 is 363.95938 5322 s in the future tar: bin/cbCoreRes tr.properties: time stamp 2019-01-10 19:19:14 is 364.95782890 9 s in the future tar: bin/cbCoreRes uk.properties: time stamp 2019-01-10 19:19:14 is 364.9567065

s in the future tar: bin/cbCoreRes vi.properties: time stamp 2019-01-10 19:19:14 is 364.95497993 s in the future tar: bin/cbCoreRes zh CN.properties: time stamp 2019-01-10 19:19:14 is 364.95348 1446 s in the future tar: bin/cbCoreRes zh TW.properties: time stamp 2019-01-10 19:19:14 is 364.95174 5764 s in the future tar: bin/cbUIRes ar.properties: time stamp 2019-01-10 19:19:14 is 364.949912453 s in the future tar: bin/cbUIRes bg.properties: time stamp 2019-01-10 19:19:14 is 364.948756845 s in the future tar: bin/cbUIRes ca.properties: time stamp 2019-01-10 19:19:14 is 364.947652997 s in the future tar: bin/cbUIRes cs.properties: time stamp 2019-01-10 19:19:14 is 364.946449001 s in the future tar: bin/cbUIRes da.properties: time stamp 2019-01-10 19:19:14 is 364.945071583 s in the future tar: bin/cbUIRes de.properties: time stamp 2019-01-10 19:19:14 is 364.94383321 s in the future tar: bin/cbUIRes el.properties: time stamp 2019-01-10 19:19:14 is 364.941068395 s in the future tar: bin/cbUIRes en.properties: time stamp 2019-01-10 19:19:14 is 364.939688159 s in the future tar: bin/cbUIRes es.properties: time stamp 2019-01-10 19:19:14 is 364.938903553 s in the future tar: bin/cbUIRes eu.properties: time stamp 2019-01-10 19:19:14 is 364.937802261 s in the future tar: bin/cbUIRes fi.properties: time stamp 2019-01-10 19:19:14 is 364.936630633 s in the future tar: bin/cbUIRes fr.properties: time stamp 2019-01-10 19:19:14 is 364.935570934 s in the future tar: bin/cbUIRes hu.properties: time stamp 2019-01-10 19:19:14 is 364.934241804 s in the future tar: bin/cbUIRes in.properties: time stamp 2019-01-10 19:19:14 is 364.933439044 s in the future tar: bin/cbUIRes is.properties: time stamp 2019-01-10 19:19:14 is 364.932281817 s in the future tar: bin/cbUIRes it.properties: time stamp 2019-01-10 19:19:14 is 364.931574036 s in the future tar: bin/cbUIRes iw.properties: time stamp 2019-01-10 19:19:14 is 364.929645645 s in the future

tar: bin/cbUIRes ja.properties: time stamp 2019-01-10 19:19:14 is 364.92810423 s in the future tar: bin/cbUIRes ko.properties: time stamp 2019-01-10 19:19:14 is 364.926885506 s in the future tar: bin/cbUIRes lt.properties: time stamp 2019-01-10 19:19:14 is 364.925783535 s in the future tar: bin/cbUIRes nl.properties: time stamp 2019-01-10 19:19:14 is 364.925000598 s in the future tar: bin/cbUIRes no.properties: time stamp 2019-01-10 19:19:14 is 364.92390097 s in the future tar: bin/cbUIRes pl.properties: time stamp 2019-01-10 19:19:14 is 364.922821718 s in the future tar: bin/cbUIRes pt BR.properties: time stamp 2019-01-10 19:19:14 is 364.9217997 56 s in the future tar: bin/cbUIRes pt PT.properties: time stamp 2019-01-10 19:19:14 is 364.9206963 48 s in the future tar: bin/cbUIRes ro.properties: time stamp 2019-01-10 19:19:14 is 364.919715448 s in the future tar: bin/cbUIRes ru.properties: time stamp 2019-01-10 19:19:14 is 364.917405335 s in the future tar: bin/cbUIRes sl.properties: time stamp 2019-01-10 19:19:14 is 364.916337922 s in the future tar: bin/cbUIRes sv.properties: time stamp 2019-01-10 19:19:14 is 364.915580412 s in the future tar: bin/cbUIRes th TH.properties: time stamp 2019-01-10 19:19:14 is 364.9132567 04 s in the future tar: bin/cbUIRes tr.properties: time stamp 2019-01-10 19:19:14 is 364.912315192 s in the future tar: bin/cbUIRes uk.properties: time stamp 2019-01-10 19:19:14 is 364.911250495 s in the future tar: bin/cbUIRes vi.properties: time stamp 2019-01-10 19:19:14 is 364.909950758 s in the future tar: bin/cbUIRes zh CN.properties: time stamp 2019-01-10 19:19:14 is 364.9088455 38 s in the future tar: bin/cbUIRes zh TW.properties: time stamp 2019-01-10 19:19:14 is 364.9076520 89 s in the future tar: bin/obxRes ar.properties: time stamp 2019-01-10 19:19:14 is 364.905026221 s in the future tar: bin/obxRes bg.properties: time stamp 2019-01-10 19:19:14 is 364.903200947 s in the future tar: bin/obxRes ca.properties: time stamp 2019-01-10

19:19:14 is 364.901819284 s in the future tar: bin/obxRes cs.properties: time stamp 2019-01-10 19:19:14 is 364.900340101 s in the future tar: bin/obxRes da.properties: time stamp 2019-01-10 19:19:14 is 364.898994766 s in the future tar: bin/obxRes de.properties: time stamp 2019-01-10 19:19:14 is 364.897585459 s in the future tar: bin/obxRes el.properties: time stamp 2019-01-10 19:19:14 is 364.894206979 s in the future tar: bin/obxRes en.properties: time stamp 2019-01-10 19:19:14 is 364.892900696 s in the future tar: bin/obxRes es.properties: time stamp 2019-01-10 19:19:14 is 364.891533288 s in the future tar: bin/obxRes eu.properties: time stamp 2019-01-10 19:19:14 is 364.890199607 s in the future tar: bin/obxRes fi.properties: time stamp 2019-01-10 19:19:14 is 364.888847095 s in the future tar: bin/obxRes fr.properties: time stamp 2019-01-10 19:19:14 is 364.886908785 s in the future tar: bin/obxRes hu.properties: time stamp 2019-01-10 19:19:14 is 364.885563273 s in the future tar: bin/obxRes in.properties: time stamp 2019-01-10 19:19:14 is 364.884200665 s in the future tar: bin/obxRes is.properties: time stamp 2019-01-10 19:19:14 is 364.88285162 s in the future tar: bin/obxRes it.properties: time stamp 2019-01-10 19:19:14 is 364.881573622 s in the future tar: bin/obxRes iw.properties: time stamp 2019-01-10 19:19:14 is 364.87947313 s in the future tar: bin/obxRes ja.properties: time stamp 2019-01-10 19:19:14 is 364.877338151 s in the future tar: bin/obxRes ko.properties: time stamp 2019-01-10 19:19:14 is 364.875575036 s in the future tar: bin/obxRes lt.properties: time stamp 2019-01-10 19:19:14 is 364.873947217 s in the future tar: bin/obxRes nl.properties: time stamp 2019-01-10 19:19:14 is 364.872346257 s in the future tar: bin/obxRes no.properties: time stamp 2019-01-10 19:19:14 is 364.870994875 s in the future tar: bin/obxRes pl.properties: time stamp 2019-01-10 19:19:14 is 364.869703443 s

in the future tar: bin/obxRes pt BR.properties: time stamp 2019-01-10 19:19:14 is 364.86813757 5 s in the future tar: bin/obxRes pt PT.properties: time stamp 2019-01-10 19:19:14 is 364.86652777 6 s in the future tar: bin/obxRes ro.properties: time stamp 2019-01-10 19:19:14 is 364.865472964 s in the future tar: bin/obxRes ru.properties: time stamp 2019-01-10 19:19:14 is 364.862177505 s in the future tar: bin/obxRes sl.properties: time stamp 2019-01-10 19:19:14 is 364.860547722 s in the future tar: bin/obxRes sv.properties: time stamp 2019-01-10 19:19:14 is 364.859291451 s in the future tar: bin/obxRes th TH.properties: time stamp 2019-01-10 19:19:14 is 364.85625508 3 s in the future tar: bin/obxRes tr.properties: time stamp 2019-01-10 19:19:14 is 364.854944322 s in the future tar: bin/obxRes uk.properties: time stamp 2019-01-10 19:19:14 is 364.853606566 s in the future tar: bin/obxRes vi.properties: time stamp 2019-01-10 19:19:14 is 364.851829911 s in the future tar: bin/obxRes zh CN.properties: time stamp 2019-01-10 19:19:14 is 364.85001248 8 s in the future tar: bin/obxRes zh TW.properties: time stamp 2019-01-10 19:19:14 is 364.84864699 7 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 172k 100 172k 0 0 1029k 0 --:--:-- --:--:-- 1028k Download file completed Untar component file to /tmp/ obm.190110191221 Downloading file... aua-inst-nix-obm.tar.gz % Total % Received % Xferd Average Speed Time Time Time Current Dload Upload Total Spent Left Speed 100 54564 100 54564 0 0 383k 0 --:--:-- --:--:-- 386k Download file completed Untar component file to /tmp/_obm.190110191221 Configure Application Path: /usr/local/obr/RestoreWizard Log Time: Thu Jan 10 19:13:09 HKT 2019 Verifying current user privilege ... Current user has enough privilege to "config".

```
Start configuration on Generic Linux Platform (Linux)
Installation Path: /usr/local/obr/RestoreWizard
Minimum supported JVM version: 1.7
Maximum supported JVM version: 1.8
Current JVM version is supported for installation.
Create Backup Manager JVM, Path:
/usr/local/obr/RestoreWizard/jvm/bin/bJW
Create Scheduler Service JVM, Path:
/usr/local/obr/RestoreWizard/jvm/bin/bschJW
Setup File Permissions
localuser:root being added to access control list
X Error of failed request: BadValue (integer parameter
out of range for operati
on)
 Major opcode of failed request: 109 (X ChangeHosts)
  Value in failed request: Oxe
  Serial number of failed request: 7
  Current serial number in output stream: 9
Startup Ahsay Online Backup Manager ...
```

15. AhsayOBR is launched successfully when you see the following screen.

	English
Login Login name	
Password	
Save password Forgot password	
Show advanced option	ОК
Option 2: Offline Installation

If you would like to use offline installation option, replace the **steps 12-15** in <u>Option 1:</u> <u>Online Installation</u> with the following steps:

1. Right click on the **Download (Offline)** button in the Linux section, then click on **Copy Link Location** to copy the download URL.



2. Use the wget command in red below to download the AhsayOBR launcher from the AhsayCBS server.

```
[root@localhost obr]# wget --no-check-certificate
https://10.90.10.12/cbs/download
                                             /obr-
linux.tar.gz
--2019-01-11 12:17:39--
https://10.90.10.12/cbs/download/obr-linux.tar.gz
Connecting to 10.90.10.12:443... connected.
WARNING: cannot verify 10.90.10.12's certificate, issued
by '/C=CN/ST=Hong Kong
                                    (SAR) /L=Hong
Kong/O=Ahsay System Corporation Limited/OU=Information
System Depar
                         tment/CN=Ahsay System
Corporation Limited/emailAddress=ca@ahsay.com':
  Self-signed certificate encountered.
    WARNING: certificate common name 'Not Secure'
doesn't match requested host n
                                           ame
'10.90.10.12'.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/octet-stream]
Saving to: 'obr-linux.tar.gz'
    ſ
        <=>
                                            ]
243,627,504 611KB/s in 8m 52s
2019-01-11 12:26:41 (447 KB/s) - 'obr-linux.tar.gz'
saved [243627504]
```

3. Use the tar command in red below to extract the downloaded AhsayOBR launcher .gz file.

```
root@localhost obr]# tar zxvf obr-linux.tar.gz
app.pkg/version.txt
app.pkg/app-common.tar.gz
```

```
app.pkg/app-native-nix-x64.tar.gz
app.pkg/app-native-nix-x86.tar.gz
app.pkg/app-nix-obm.tar.gz
app.pkg/aua-common.tar.gz
app.pkg/aua-native-nix-x64.tar.gz
app.pkg/aua-native-nix-x86.tar.gz
app.pkg/aua-nix-obm.tar.gz
app.pkg/util-common.tar.gz
app.pkg/util-nix-obm.tar.gz
app.pkg/util-nix-obm.tar.gz
app.pkg/properties-common.tar.gz
app.pkg/app-inst-nix-obm.tar.gz
app.pkg/aua-inst-nix-obm.tar.gz
app.pkg/jre-std-linux-amd64.tar.gz
app.pkg/jre-std-linux-x86-586.tar.gz
obr-linux.sh
```

4. Execute the AhsayOBR launcher using the red command line below.

[root@localhost obr]# sh obr-linux.sh Log Time: Fri Jan 11 12:36:14 HKT 2019 Using package in /usr/local/obr/app.pkg Package version: 8.0.5.0 Untar jre-std-linux-amd64.tar.gz to /tmp/ obm.190111123614/jvm Untar app-common.tar.gz to /tmp/ obm.190111123614 Untar app-native-nix-x64.tar.gz to /tmp/ obm.190111123614 Untar app-nix-obm.tar.gz to /tmp/ obm.190111123614 Untar aua-common.tar.gz to /tmp/ obm.190111123614 Untar aua-native-nix-x64.tar.gz to /tmp/_obm.190111123614 Untar aua-nix-obm.tar.gz to /tmp/ obm.190111123614 Untar util-common.tar.gz to /tmp/_obm.190111123614 Untar util-nix-obm.tar.gz to /tmp/ obm.190111123614 Untar properties-common.tar.gz to /tmp/ obm.190111123614 Untar app-inst-nix-obm.tar.gz to /tmp/ obm.190111123614 Untar aua-inst-nix-obm.tar.gz to /tmp/ obm.190111123614 mv: cannot move '/tmp/ obm.190111123614/aua' to '/usr/local/obr/RestoreWizard/aua': Fil e exists mv: cannot move '/tmp/ obm.190111123614/bin' to '/usr/local/obr/RestoreWizard/bin': Fil e exists mv: cannot move '/tmp/ obm.190111123614/jvm' to '/usr/local/obr/RestoreWizard/jvm': Fil e exists mv: cannot move '/tmp/ obm.190111123614/licenses' to '/usr/local/obr/RestoreWizard/lice nses': File exists mv: cannot move '/tmp/ obm.190111123614/termsofuse' to *\/usr/local/obr/RestoreWizard/te* rmsofuse': File exists mv: cannot move '/tmp/ obm.190111123614/util' to '/usr/local/obr/RestoreWizard/util': F ile exists Configure Application Path: /usr/local/obr/RestoreWizard Log Time: Fri Jan 11 12:37:00 HKT 2019

```
Verifying current user privilege ...
Current user has enough privilege to "config".
Start configuration on Generic Linux Platform (Linux)
Installation Path: /usr/local/obr/RestoreWizard
Minimum supported JVM version: 1.7
Maximum supported JVM version: 1.8
Current JVM version is supported for installation.
Setup File Permissions
localuser:root being added to access control list
X Error of failed request: BadValue (integer parameter
out of range for operation)
 Major opcode of failed request: 109 (X ChangeHosts)
 Value in failed request: Oxe
 Serial number of failed request: 7
  Current serial number in output stream: 9
Startup Ahsay Online Backup Manager ...
```

5. AhsayOBR is launched successfully when you see the following screen.

	English
O AhsayOBM	
Login Login name	
Password	
Save password Forgot password	
Show advanced option	ок

6 Start AhsayOBR

Starting with AhsayOBR v8.5.0.0, Two-Factor Authentication (2FA) is introduced to provide high level of security protection to the backup data that will be restored. With this new feature, there are several scenarios that will be encountered for first time login. Login steps for the different scenarios will be discussed in this chapter.

6.1 Login to AhsayOBR without 2FA

1. The AhsayOBR will launch automatically, and you will see the following screen. Click **Show advanced option** to configure the network settings.

0	AhsayOBM		×
		English	
	AhsayOBM		
	Login name		
	Password		
	Save password		
	Show advanced option	ок	

2. Enter the Backup Server address provided by your backup service provider. If you need to use proxy to access the Internet, enable the Proxy feature and fill in the relevant information. Click **OK** when you are done with the settings.

0		AhsayOBM		_ = ×
	Backup Server http 10.16.4.28 • Proxy (HTTP) Use proxy to access the Internet Off			
				OK Cancel
			Z.	

3. Enter the login name and password of your Client Backup account, then click **OK** to log in.

0	AhsayOBM		_ 🗆 ×
		English	
	Login Login name		
	Password		
	Save password		
	Show advanced option	ОК	

4. After a successful login, the available backup set(s) for restore will be displayed.



6.2 Login to AhsayOBR with 2FA enabled

1. The AhsayOBR will launch automatically, and you will see the following screen. Click **Show advanced option** to configure the network settings.

0	AhsayOBM	_ = ×
	English	~
	Login	
	Login name	
	Password	
	Save password Forgot password	
	Show advanced option	



2. Enter the Backup Server address provided by your backup service provider. If you need to use proxy to access the Internet, enable the Proxy feature and fill in the relevant information. Click **OK** when you are done with the settings.

0		AhsayOBM		_ = ×
	Backup Server http 10.16.4.28 • Proxy (HTTP) Use proxy to access the Internet off			
				OK Cancel
			- K	

3. Enter the login name and password of your Client Backup account, then click **OK** to log in.

0	AhsayOBM		_ = ×
X		English	
	AhsayOBM		
	Login name		
	Password		
	Save password		
	Show advanced option	ок	

4. If the 2FA setup is enabled, the following screen will be displayed. Select the authentication method to continue with the login.

Example: the AhsayOBM user account is setup with 2FA using Ahsay Mobile Authenticator on a Mobile device called "Galaxy A70" and a third party TOTP Authentication app such as Google Authenticator, Microsoft Authenticator, LastPass etc.



There are two authentication method to choose from which are:

- Ahsay Mobile Authenticator
- TOTP Authentication App

If Ahsay Mobile will be used as authenticator, follow the steps below to log in.

i. Click Approve request in Authenticator App to proceed with the login.



ii. Accept the authorization request sent to your device.

Two-Factor Authentication

Please approve the notification request in Authenticator App on "Galaxy A70".

Waiting for response (00:04:57)

Authenticate with one-time password

This is a sample of the authorization request sent to Ahsay Mobile.



If a third-party **TOTP Authenticator App** will be used, follow the steps below to log in.

i. Click **Input one-time password generated in Authenticator App** to proceed with the login.



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ii. Enter the one-time password that is generated by the app and click Next.



This is a sample of the one-time password generated in the third-party Authenticator App Microsoft Authenticator.



5. After a successful login, the available backup set(s) for restore will be displayed.



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7 Restore File Backup Sets

The following is a typical end-to-end process for a file normal restore. The actual steps may slightly vary depending on the module you are restoring.

NOTES 1. AhsayOBR can be used to restore data that is backed up with AhsayOBM or AhsayACB. 2. Clicking Cancel then Yes at any point during the steps below will close the software completely. If you wish to use it after the software is closed, you will have to launch it again according to the instructions in Ch. 5.1.2 Launch AhsayOBR or Ch. 5.2.1 Download and Launch AhsayOBR. 1. After logging in to your backup account, the available backup set(s) for restore will be displayed. Click on the backup set that you would like to restore. AhsayOBM × Please Select The Backup Set To Restore Sort by Creation Time 🖌 File Backup Owner: centos73

Newly created on Wednesday, 10 March 2021 23:01

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Close Help

2. Enter the encryption key of the selected backup set, then click **OK** to proceed.



3. Click on the location from where you would like to restore the data from.

AhsayOBM	-	•	×
Select From Where To Restore			
File Backup			
AhsayCBS Host: 125.			
Previous	icel	Help)

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

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



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



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.

Select What to restore Choose from ALL files	r Files To B	e Re:	stored
	Name File snapshot testing.txt	Size 49 bytes 34 bytes 22 bytes 10 bytes	Date modified 03/11/2016 11:10 02/11/2016 18:51 02/11/2016 18:50 02/11/2016 18:47
Search	Items pe	r page 50 🔹	✓ Page 1/1 ✓

Below is an example showing all the available backup versions of the **File snapshot testing.txt** file. 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
🗹 🗋 File snapshot testing.txt	49 bytes	03/11/2016 11:10
🗹 📄 File snapshot testing.txt	34 bytes	02/11/2016 18:51
🗋 📄 File snapshot testing.txt	22 bytes	02/11/2016 18:50
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.



- 5. Click **Next** to proceed when you are done with the selections.
- 6. 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, the backup source files are stored in root/Downloads same as on the computer running the AhsayOBR.

	AhsayOBM	- ¤ ×
Choose Wh	ere The Files To Be F	Restored
Restore files to Original location 		
O Alternate location		Browse
Show advanced option		
	Previous	Next Cancel Help

 Alternate location – you can choose to restore data to an alternate location on the computer where AhsayOBR is running. Click Browse to choose a location, then click OK to select.

	AhsayOBM	- 0	×
Choose Wh Restore files to Original location Alternate location Show advanced option	Change Path Look in: root data Public Desktop temp Documents Templates Downloads Videos Music obmbackup Pictures Folder game : root Files of type : All Files OK Cancel	se	
	Previous	Cancel Helj	þ

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

	Choose Where The Files
	Restore files to Original location Alternate location
	 Restore file permissions Delete extra files Follow Link Verify checksum of in-file delta files during restore Hide advanced option
۲	Alternate location Choose Where The Files To
	Restore files to Original location Oldermate location
	 Restore file permissions Delete extra files Follow Link Resolve Link Verify checksum of in-file delta files during restore 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.

Document folder 01	. 🗆	×
<u>File Edit View Places H</u> elp		
<pre>doc 1.odt doc 2.odt Files created initially</pre>		
Document folder 🗸 2 items, Free space: 4.9 GB		

- ii) A backup is performed for folder **Document folder 01**.
- iii) Two new files are created, namely doc 3 & doc 4.

Document folder 01 _	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>P</u> laces <u>H</u> elp	
<pre>doc 1.odt doc 2.odt files created BEFORE backup doc 3.odt doc 4.odt files created AFTER backup</pre>	
Document folder 🗸 4 items, Free space: 4.9 GB	

- 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 were deleted.

Prior to the data restore and synchronization, a warning message shows as the one shown below. Clicking **Yes** will delete the "extra file". You can check the **Apply to all** option to confirm deleting all the "extra files" at a time.

?	/root/Desktop/Delete extra file testing/doc 3.odt Are you sure you want to delete this file/folder?
Apply to all	Yes No

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 Restore to Behavior Link		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.	
Ellableu	Alternate location	Symbolic link is restored to the location specified. Target directories or files are also restored to the alternate location specified.	
Disabled	Original	Symbolic link is restored to the	

location	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 applicable 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. This means that 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.		
Enabled	Target of the link is updated to the new relative path. In other words, the link now points to the new alternate location.		
Dischlad	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.		
Disabled	However, target of the link is NOT updated to the new relative path. In other words, the link or junction still points to the original location.		

Verify checksum of in-file delta files during restore

By enabling this option, the checksum of in-file delta files will be verified during the restore process. This will check the data for errors during the restore process and create a data summary of the in-file delta files which will be included in the report.

- 8. Once done with the restore settings, click **Next** to proceed.
- 9. 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 temporary 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.

Once the temporary directory is configured, click **Restore** to start the restore

AhsayOBM	-		×
Temporary Directory			
Temporary directory for storing restore files			
/usr/tmp Browse			
Previous Restore Ca	ncel	Help	
		neip	

10. <u>Restore job has completed successfully.</u> To check for the restore log, click the 🖾 icon.

AhsayOBM	-		×
Restore			
File Backup	_		
Restore Completed Successfully Estimated time left 0 sec Restored 23.48M (14 files) Elapsed time 10 sec Transfer rate 28.06Mbit/s	Q		
	Close	Help	

11. After restoring, click the **close** button to exit the AhsayOBR, then click **Yes**. This will completely uninstall the software. If you wish to use it again, you will have to launch it again according to the instructions in <u>Ch. 5.1.2 Launch AhsayOBR</u> or <u>Ch. 5.2.1</u> <u>Download and Launch AhsayOBR</u>.



8 Contacting Ahsay

8.1 Technical Assistance

To contact Ahsay support representatives for technical assistance, visit the Partner Portal: https://www.ahsay.com/partners/

Also use the Ahsay Wikipedia for resource such as Hardware Compatibility List, Software Compatibility List, and other product information: https://wiki.ahsay.com/

8.2 Documentation

Documentations for all Ahsay products are available at: <u>https://www.ahsay.com/jsp/en/home/index.jsp?pageContentKey=ahsay_downloads_documen</u> <u>tation_guides</u>

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

https://www.ahsay.com/partners/

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