



Ahsay Online Backup Restorer v8

User Guide for Linux

Ahsay Systems Corporation Limited

22 January 2019

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Revision History

Date	Descriptions	Type of modification
22 January 2019	Changed the FAQ link for the hardware requirements in Ch. 3.1; Changed the FAQ link for the software requirements in Ch3.2; Changed the screen shots and command lines for the method 1 using Linux GUI online installation in Ch. 4.1.1; Changed the screen shots and command lines for the method 1 using Linux GUI offline installation in Ch. 4.1.2; Added the additional configuration to indicated the localhost:0.0 on using the ssh to remotely download and launch OBR with X11 forwarding in Ch. 4.2.1; Changed the screen shots and command lines for the method 2 using the ssh to remotely download and launch OBR with X11 forwarding in Ch. 4.2.2;	New/Modifications

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1 Overview

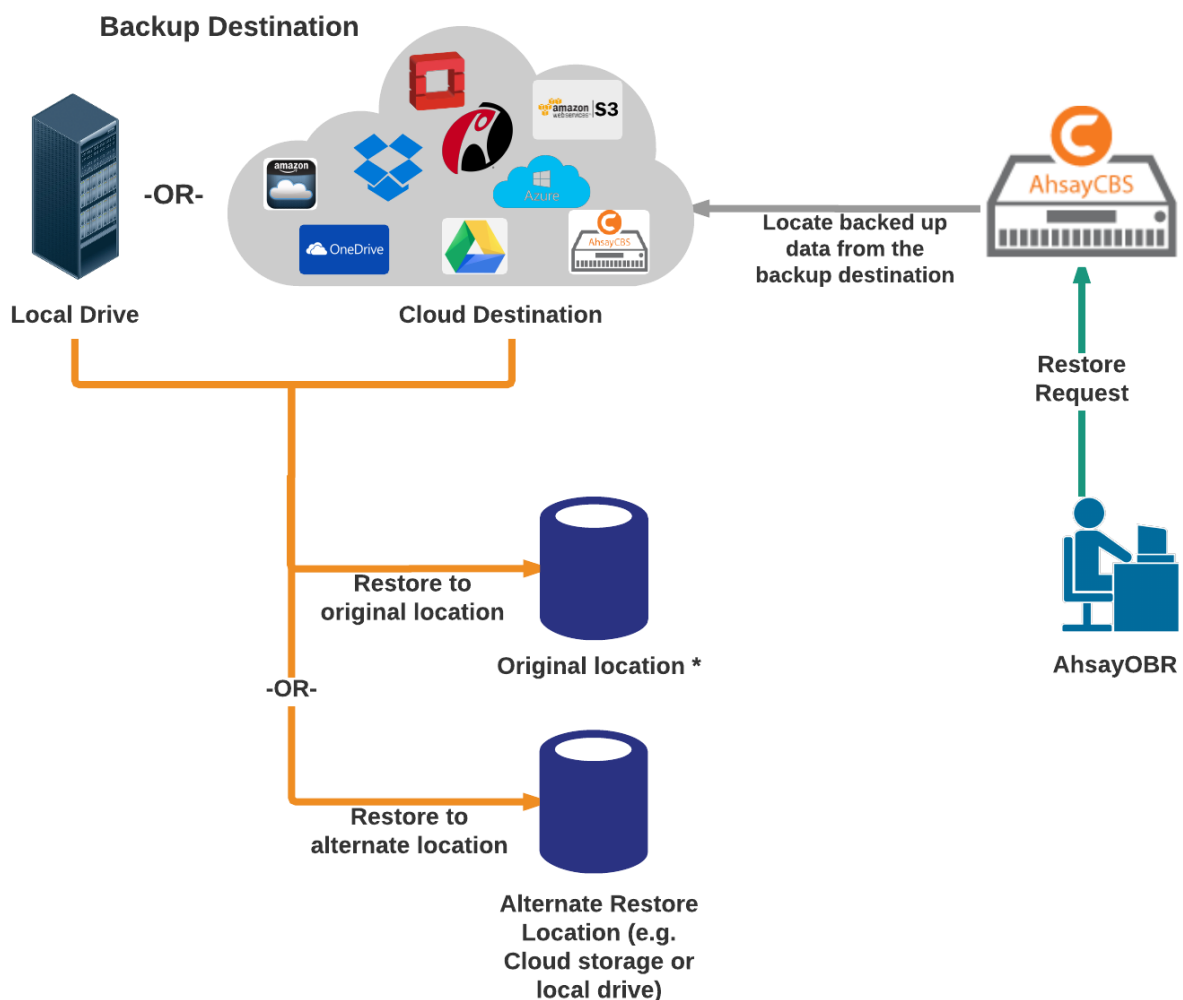
What is this software?

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 AhsayACB or AhsayOBM.

System Architecture

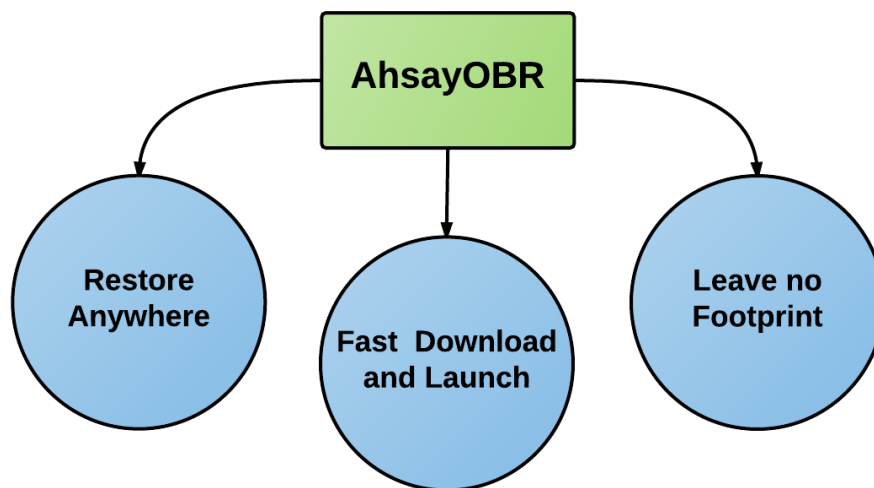
Below is the system architecture diagram illustrating the major elements involved in the process when you are using the AhsayOBR to restore data.

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, 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.

Why should I use AhsayOBR to restore backup data?



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 (e.g. AhsayOBM) installed. AhsayOBR is exactly designed to cater to your needs under such circumstances.

You can now download and launch the OBR 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 (e.g. AhsayOBM) 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 restore 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 (e.g. AhsayOBM) 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. 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 don't have to worry about leaving important information behind in the restore logs which could be viewed by a third party.

Features comparison between Client Backup Agent and AhsayOBR

While you can still download a Client Backup Agent (AhsayACB / AhsayOBM) 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	<ul style="list-style-type: none"> ➤ No installation required ➤ Faster to launch 	Required to launch every time when you use
	Client Backup Agent	One-time installation	Larger installer size hence longer installation time
Run Direct Restore	AhsayOBR	N/A	Run Direct restore for VMware and Hyper V servers is NOT supported. Since AhsayOBR is not a Client Backup Agent and therefore NFS is not bundled along with the software. NFS is a mandatory item for performing Run Direct restore for VMware and Hyper V servers.
	Client Backup Agent	Support Run Direct restore for both VMware and Hyper V servers.	N/A
Cross platform usage	AhsayOBR	Although both tools are available for use on various platforms, e.g. Windows, Mac, Linux, etc., cross platform restore is NOT recommended. For example, files backed up on Windows are not recommended to restore on a Mac/Linux machine.	
	Client Backup Agent		
Compatibility	AhsayOBR	Support restore of backup set created on either AhsayACB / AhsayOBM	N/A
	Client Backup Agent	N/A	Support restore of backup set created by the same type of Client Backup Agent only. E.g. backup set created on AhsayOBM can only be restored by AhsayOBM.

2 About This Document

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.

What should I expect from this document?

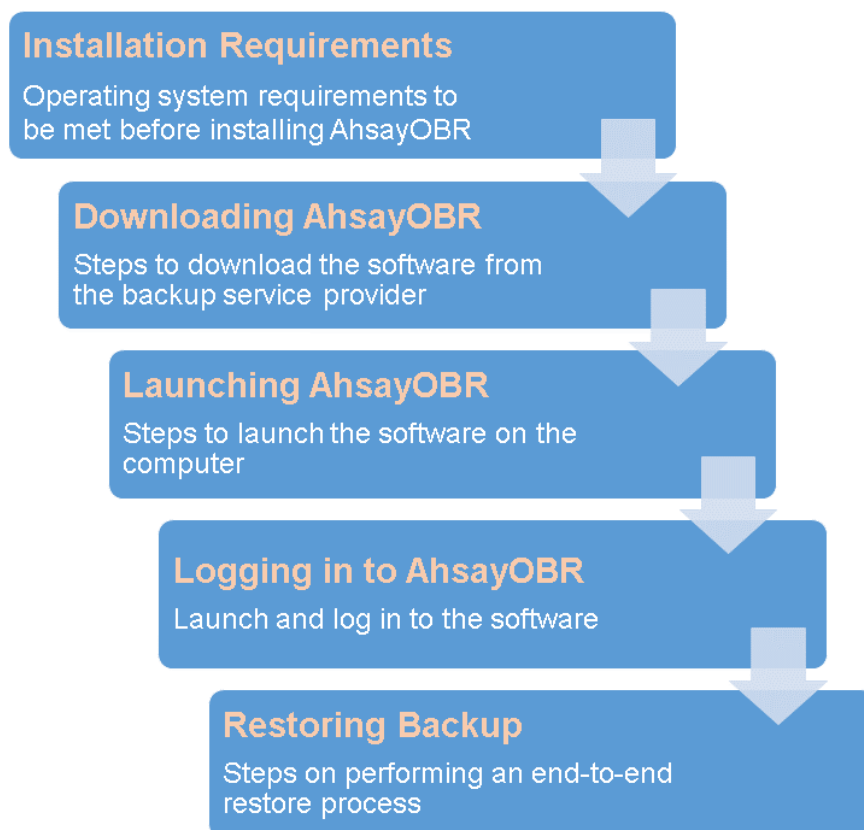
After reading through this documentation, you can expect to have sufficient knowledge to download and launch the AhsayOBR software, as well as to perform a restore.

Who should read this document?

This documentation is intended for backup users who need to perform restore while they have no access to their Client Backup Agent (e.g. AhsayOBM).

Overview of Document Content Structure

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



3 Prepare for Using AhsayOBR

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 requirements for launching the software.

FAQ: Ahsay Hardware Requirement List (HRL) for version 8.1 or above

http://wiki.ahsay.com/doku.php?id=public:8000_faq:ahsay硬件要求列表_hrl_for_version_8.1_or_above

Software Requirements

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

- OpenJDK Version 1.8 <https://www.freebsd.org/java/>

The installed Java Development Kit version must at least be 8.

- GNU LIBC 2.14 <https://www.gnu.org/software/libc/>

The installed 'GNU LIBC' version must at least be 2.14 for OpenJDK 8 to work.

Refer to the link below for the software compatibility list for version 8.1 or above

FAQ: Ahsay Software Compatibility List (SCL) for version 8.1 or above

http://wiki.ahsay.com/doku.php?id=public:8001_faq:ahsay软件兼容性列表_scl_for_version_8.1_or_above

4 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 a 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	<ul style="list-style-type: none">➤ Takes more time as it needs to download the binary and component files (80MB to 140MB depending on operating system) each time the installation is run.➤ Online installer size is 9KB to 3.5MB depending on operating system as it contains only the initial installation package files.	<ul style="list-style-type: none">➤ 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.➤ Offline installer size is 80MB to 140MB depending on operating system as it contains all the necessary binary and component files.
Deployments	<ul style="list-style-type: none">➤ 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.	<ul style="list-style-type: none">➤ 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.

Method 1 - Using Linux GUI

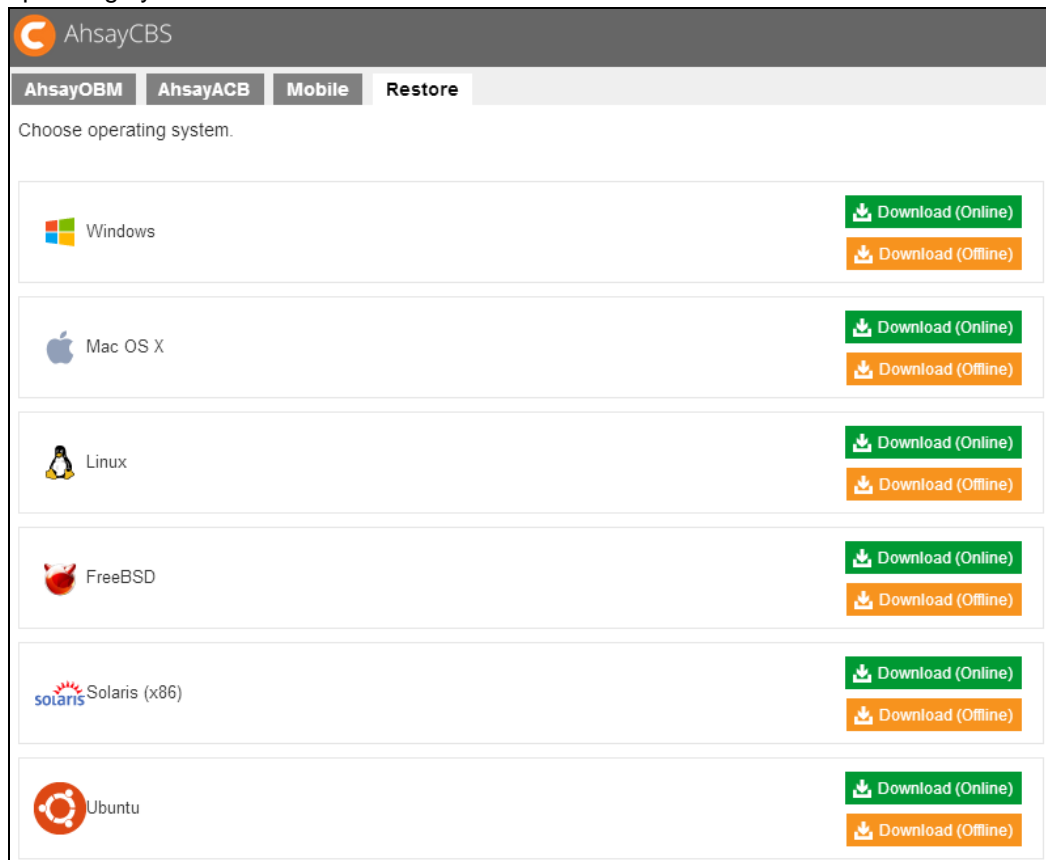
This section aims at providing instructions on downloading and launching AhsayOBR using the Linux GUI directly on the machine.

Download AhsayOBR

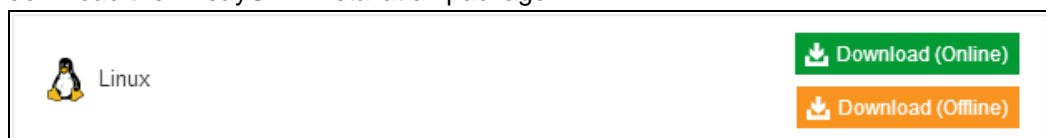
1. Download the AhsayOBR from your backup service provider's website. Click the blue download icon at the top right corner as shown.



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



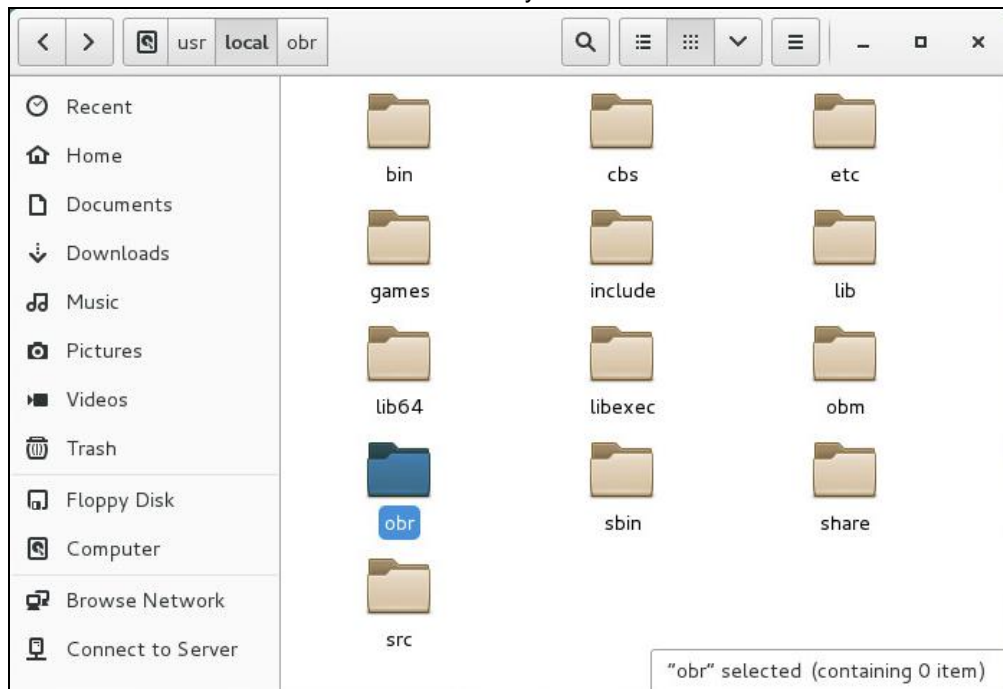
3. In the **Linux** section, click on the **Download (Online)** or **Download (Offline)** button to download the AhsayOBR installation package.



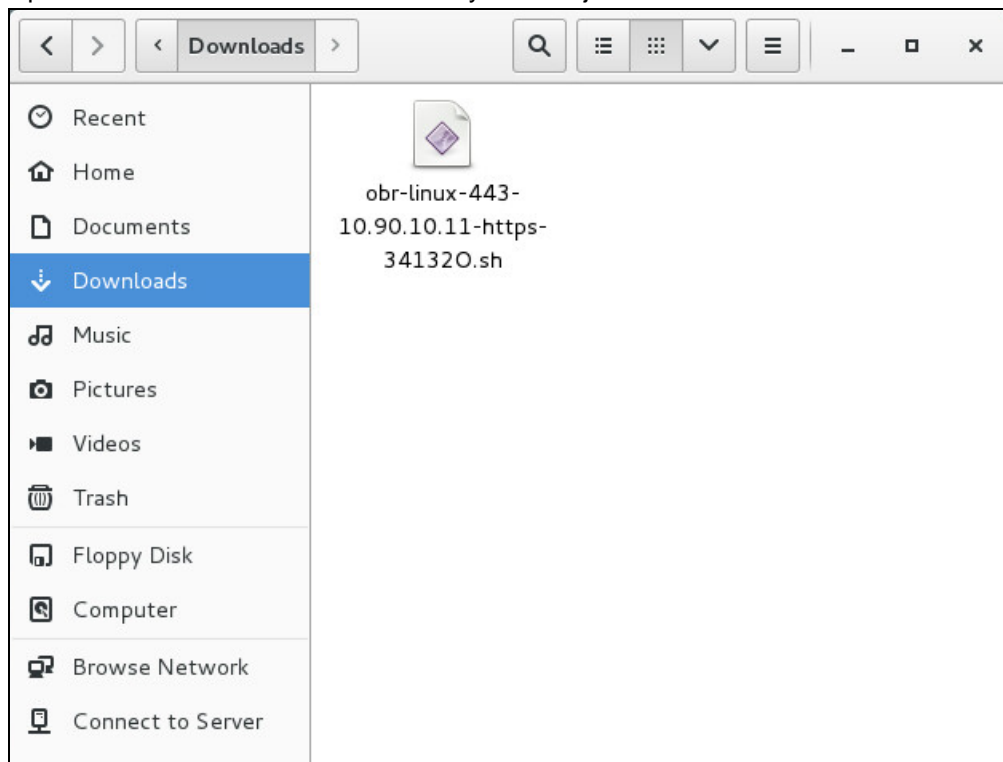
Launch AhsayOBR

Option 1: Online Installation Option

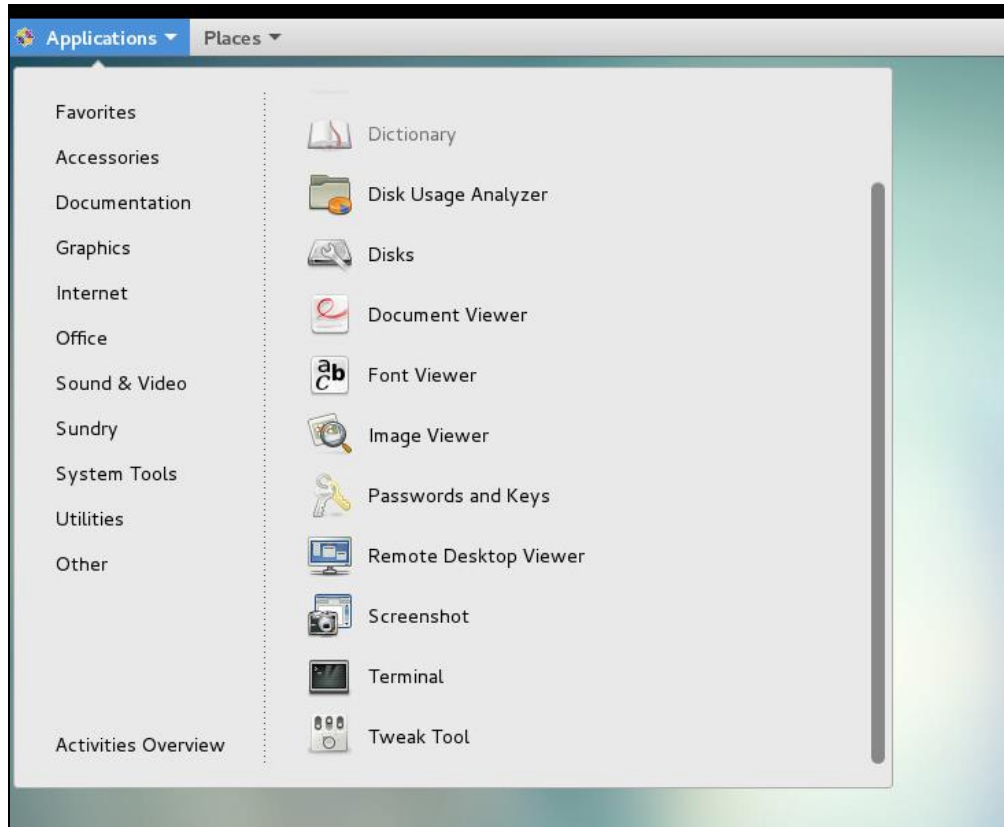
1. Create a folder under the **/usr/local** directory. You could name the folder **obr**.



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



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



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  Spent
Left Speed
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  Spent
Left Speed
100 34.9M 100 34.9M    0     0 1552k      0 0:00:23 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
100 12068 100 12068    0     0 71283      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
Time Current
                                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  Spent
```

```

Left Speed
100 1021 100 1021 0 0 6906 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
Time Current
Dload Upload Total Spent
Left Speed
100 4829 100 4829 0 0 26658 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
100 85206 100 85206 0 0 455k 0 --:--:-- --:--:--
--:--:-- 457k
Download file completed
Untar component file to /tmp/_obm.190109173535
Downloading file... properties-common.tar.gz
% Total % Received % Xferd Average Speed Time Time
Time Current
Dload Upload Total Spent
Left Speed
100 3583k 0 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 358.598240813 s in the future
tar: bin/cbCoreRes_bg.properties: time stamp 2019-01-09 17:42:39
is 358.596424752 s in the future
tar: bin/cbCoreRes_ca.properties: time stamp 2019-01-09 17:42:39
is 358.594754009 s in the future
tar: bin/cbCoreRes_cs.properties: time stamp 2019-01-09 17:42:39
is 358.592567467 s in the future
tar: bin/cbCoreRes_da.properties: time stamp 2019-01-09 17:42:39
is 358.590424453 s in the future
tar: bin/cbCoreRes_de.properties: time stamp 2019-01-09 17:42:39
is 358.588998406 s in the future
tar: bin/cbCoreRes_el.properties: time stamp 2019-01-09 17:42:40
is 359.585480327 s in the future
tar: bin/cbCoreRes_en.properties: time stamp 2019-01-09 17:42:40
is 359.584446665 s in the future
tar: bin/cbCoreRes_es.properties: time stamp 2019-01-09 17:42:40
is 359.583117768 s in the future
tar: bin/cbCoreRes_eu.properties: time stamp 2019-01-09 17:42:40
is 359.581818929 s in the future
tar: bin/cbCoreRes_fi.properties: time stamp 2019-01-09 17:42:40
is 359.580140783 s in the future
tar: bin/cbCoreRes_fr.properties: time stamp 2019-01-09 17:42:40
is 359.578730534 s in the future
tar: bin/cbCoreRes_hu.properties: time stamp 2019-01-09 17:42:40
is 359.576545007 s in the future
tar: bin/cbCoreRes_in.properties: time stamp 2019-01-09 17:42:40
is 359.575528549 s in the future
tar: bin/cbCoreRes_is.properties: time stamp 2019-01-09 17:42:40

```

```

is 359.574021941 s in the future
tar: bin/cbCoreRes_it.properties: time stamp 2019-01-09 17:42:40
is 359.572615541 s in the future
tar: bin/cbCoreRes_iw.properties: time stamp 2019-01-09 17:42:40
is 359.569276668 s in the future
tar: bin/cbCoreRes_ja.properties: time stamp 2019-01-09 17:42:40
is 359.566904866 s in the future
tar: bin/cbCoreRes_ko.properties: time stamp 2019-01-09 17:42:40
is 359.565024151 s in the future
tar: bin/cbCoreRes_lt.properties: time stamp 2019-01-09 17:42:40
is 359.563199412 s in the future
tar: bin/cbCoreRes_nl.properties: time stamp 2019-01-09 17:42:40
is 359.561811264 s in the future
tar: bin/cbCoreRes_no.properties: time stamp 2019-01-09 17:42:40
is 359.560377609 s in the future
tar: bin/cbCoreRes_pl.properties: time stamp 2019-01-09 17:42:40
is 359.558533817 s in the future
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
tar: bin/cbCoreRes_ru.properties: time stamp 2019-01-09 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
Left    Speed
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
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

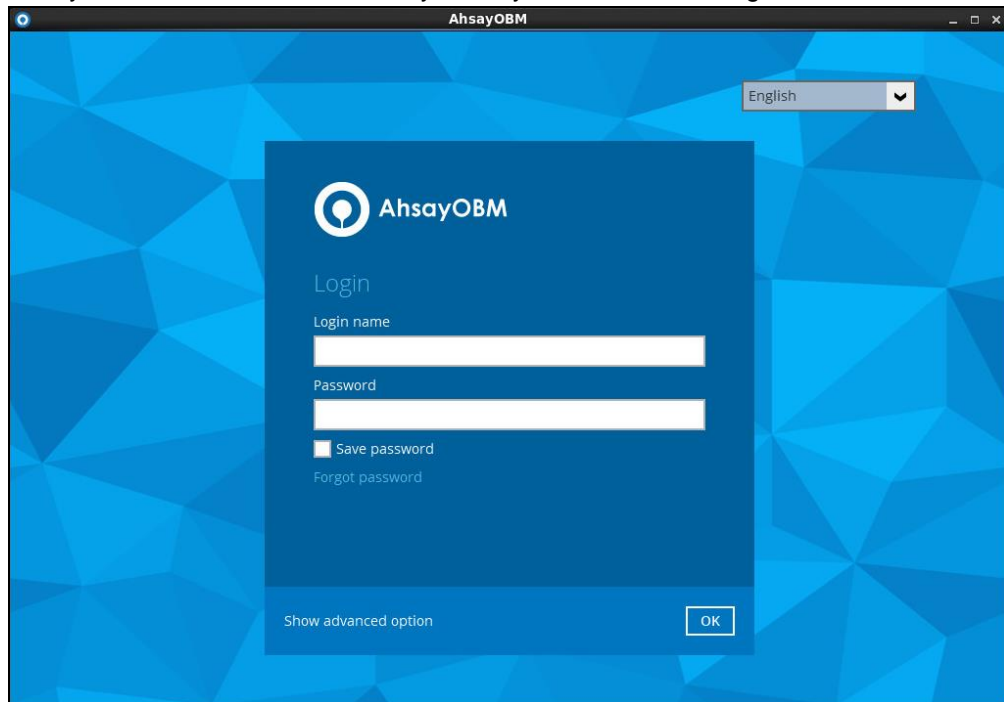
Verifying current user privilege ...
Current user has enough privilege to "config".

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

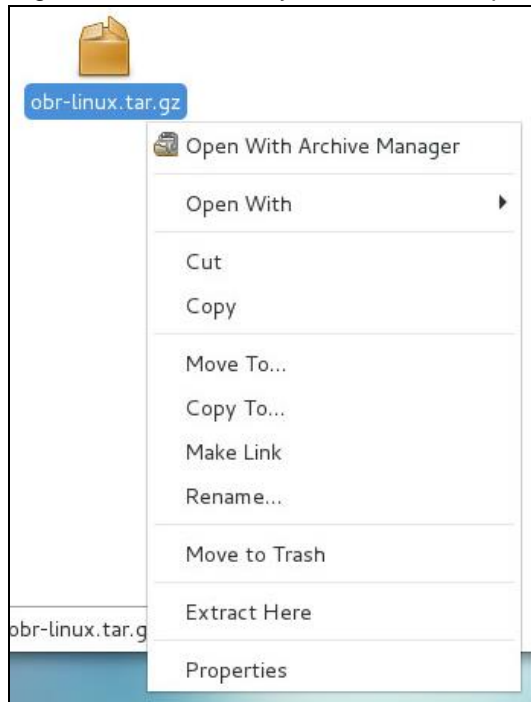
```

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

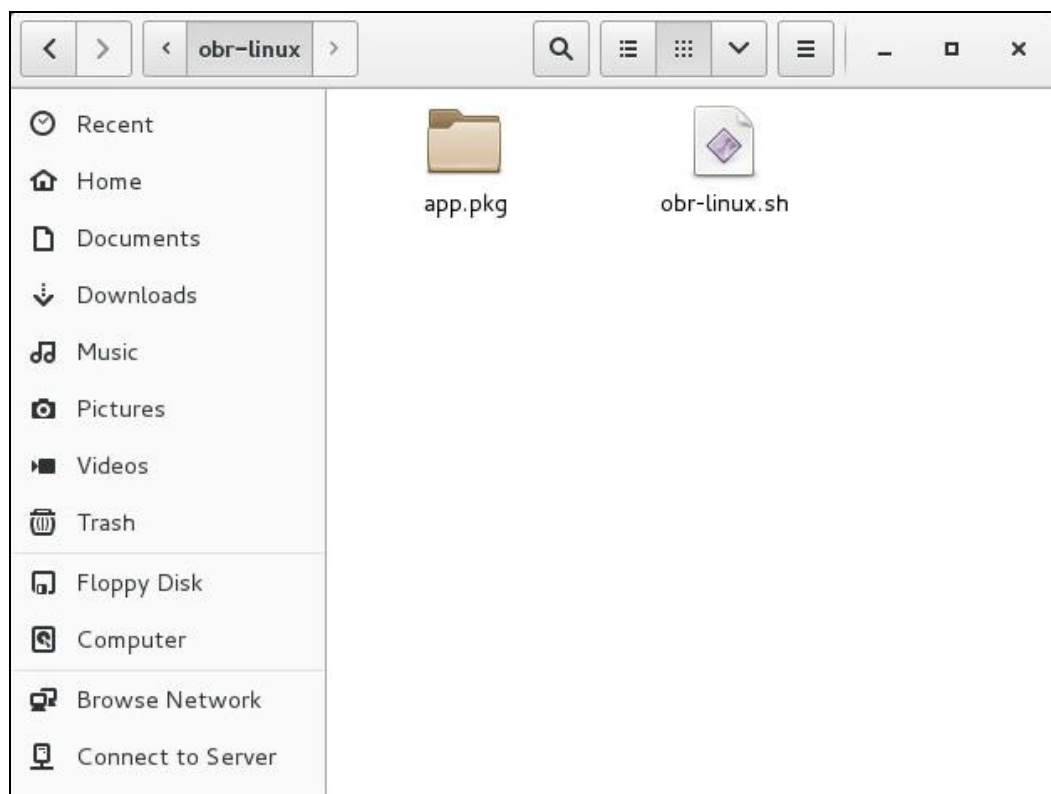


Option 2: Offline Installation Option

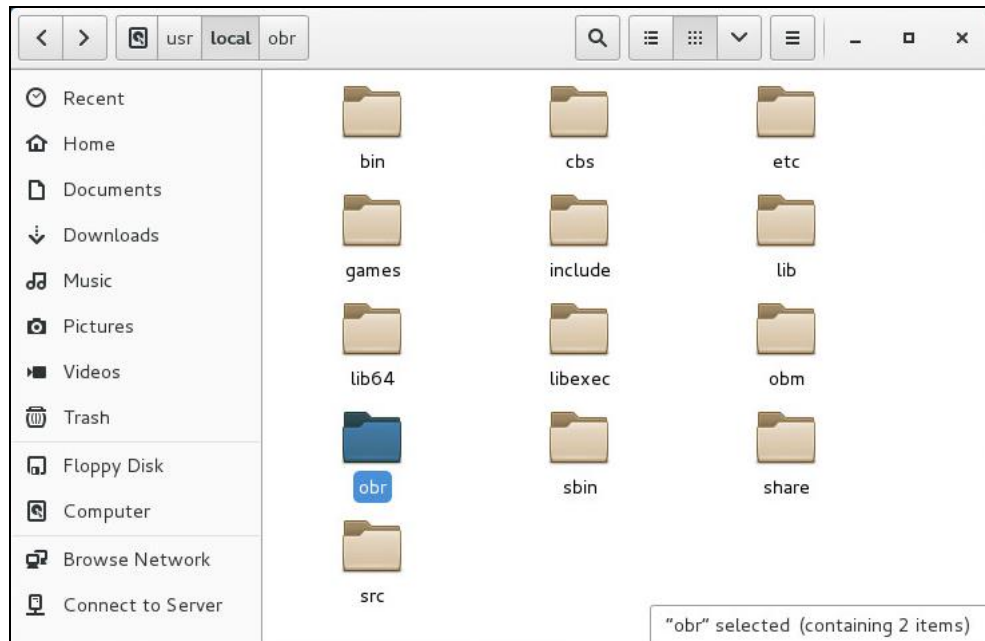
1. Right click on the AhsayOBR installation package .gz file to extract.



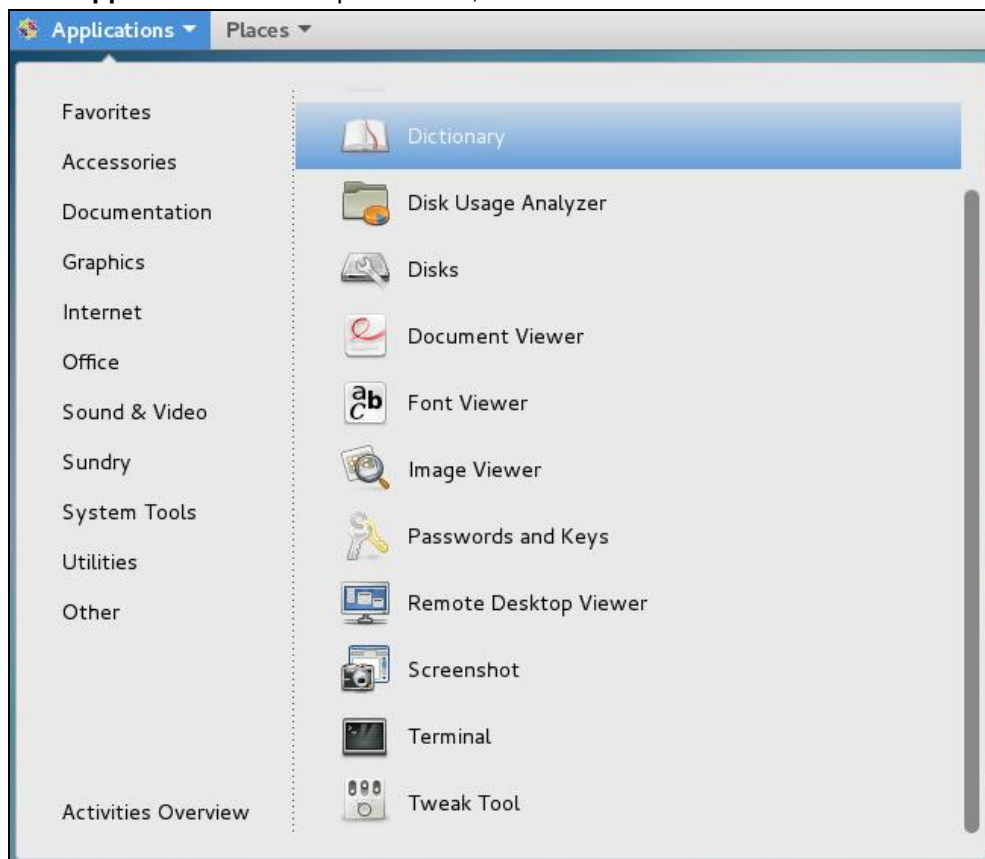
2. Open the folder to check the extracted installation package.



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**.



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

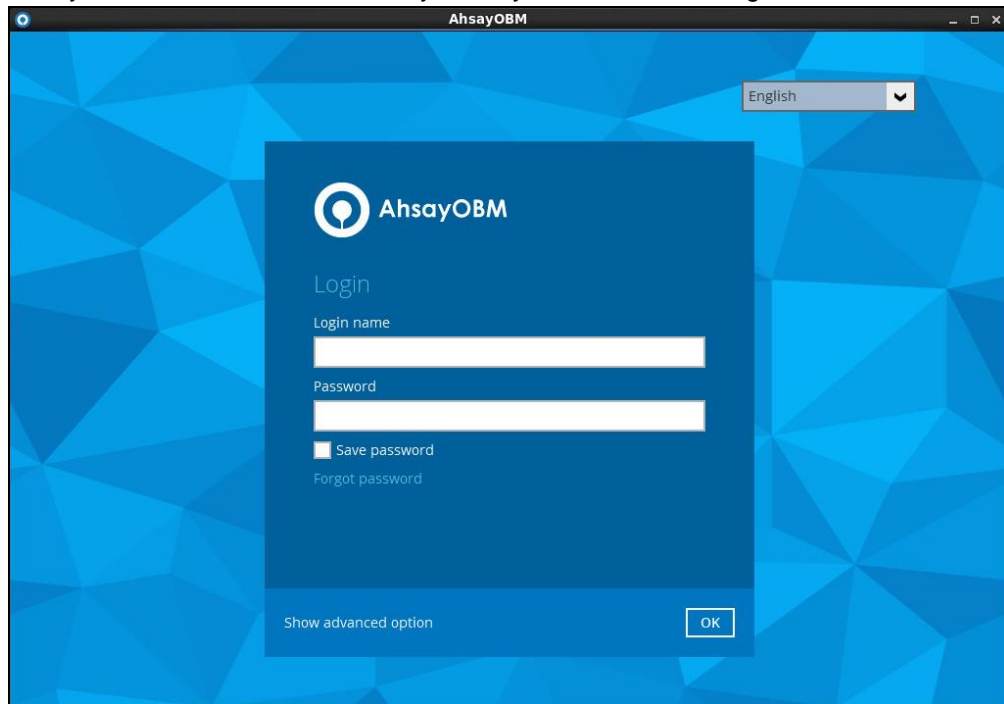
```
Log Time: Wed Jan 9 17:18:55 HKT 2019
Using package in /usr/local/obr/app.pkg
Package version: 8.0.5.0
Untar jre-std-linux-amd64.tar.gz to /tmp/_obm.190109171855/jvm
Untar app-common.tar.gz to /tmp/_obm.190109171855
Untar app-native-nix-x64.tar.gz to /tmp/_obm.190109171855
Untar app-nix-obm.tar.gz 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
```

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



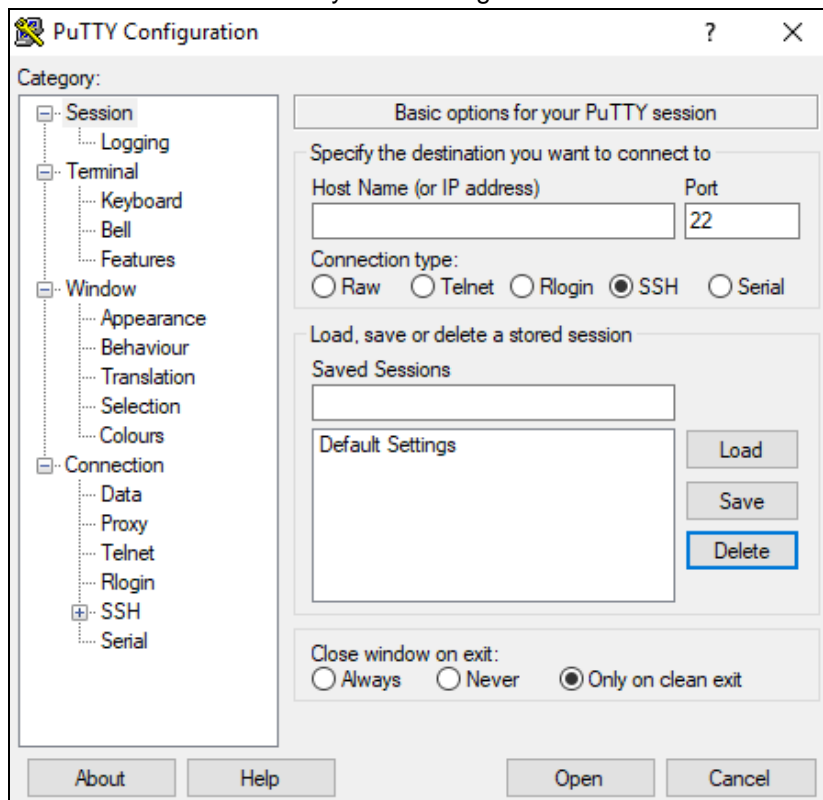
Method 2 - Using SSH to remotely download and launch for a Linux machine with X11 forwarding

This section aims at providing instructions on using a 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.

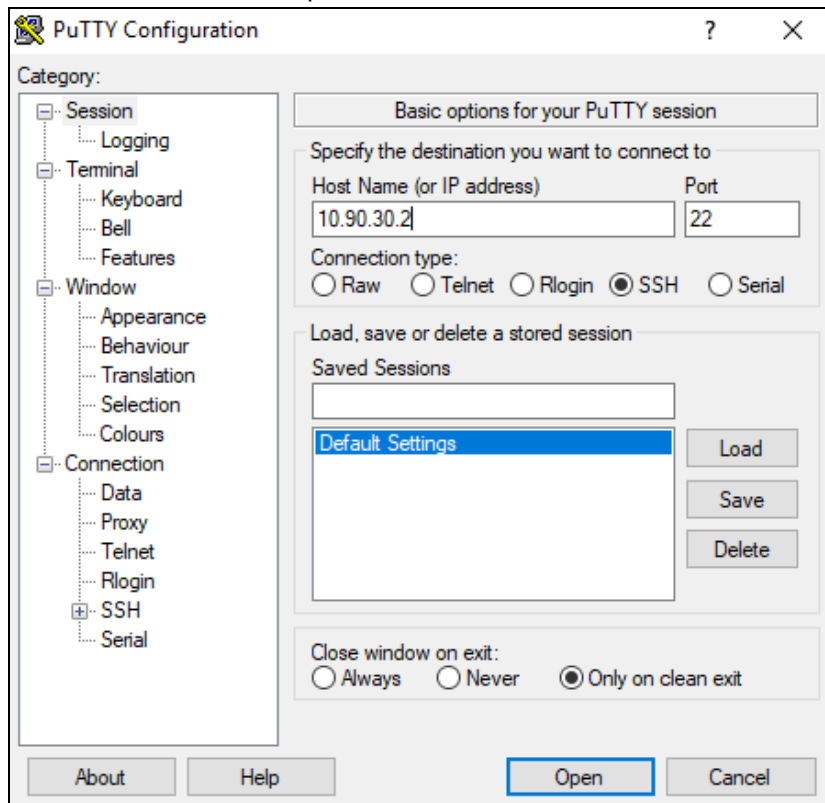
Download and Launch AhsayOBR

Option 1: Online Installation Option

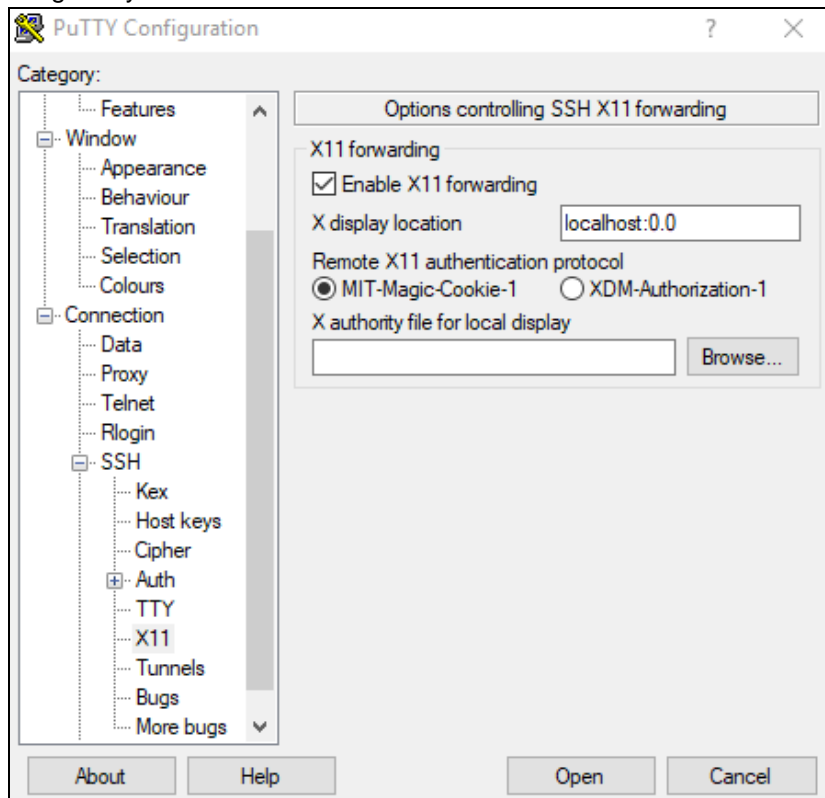
1. Before logging in to the Linux machine using a ssh client, please make sure you have the X Windows System installed on the machine, which is used to project the Linux UI image on your Windows. If you do not have one, the URL below is one of those you can download from the Internet.
<https://sourceforge.net/projects/xming/>
2. Launch the SSH client that you are using to connect to the Linux machine.



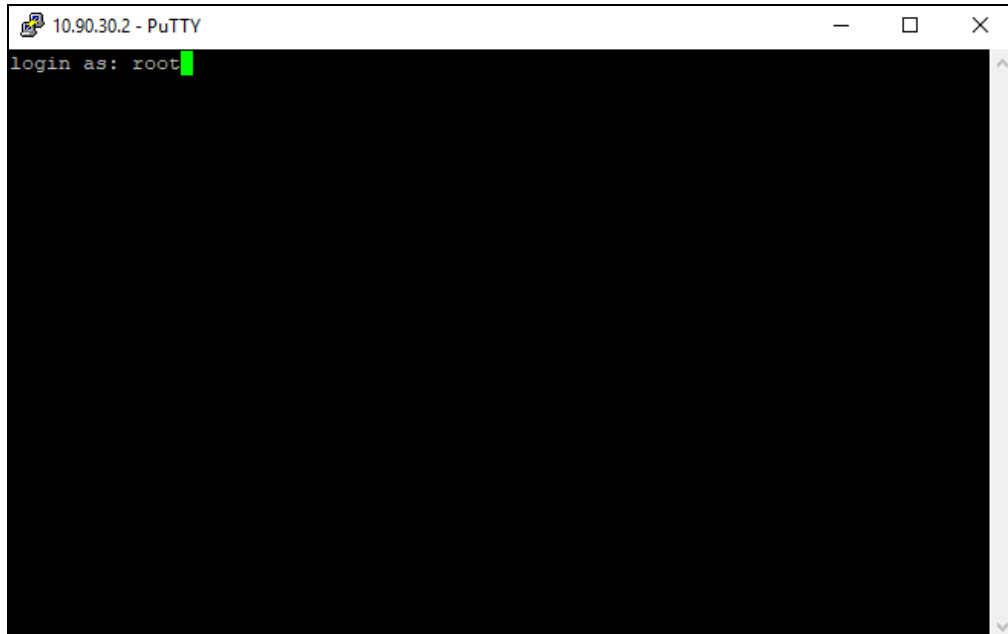
3. Enter the host name and port of the Linux machine.



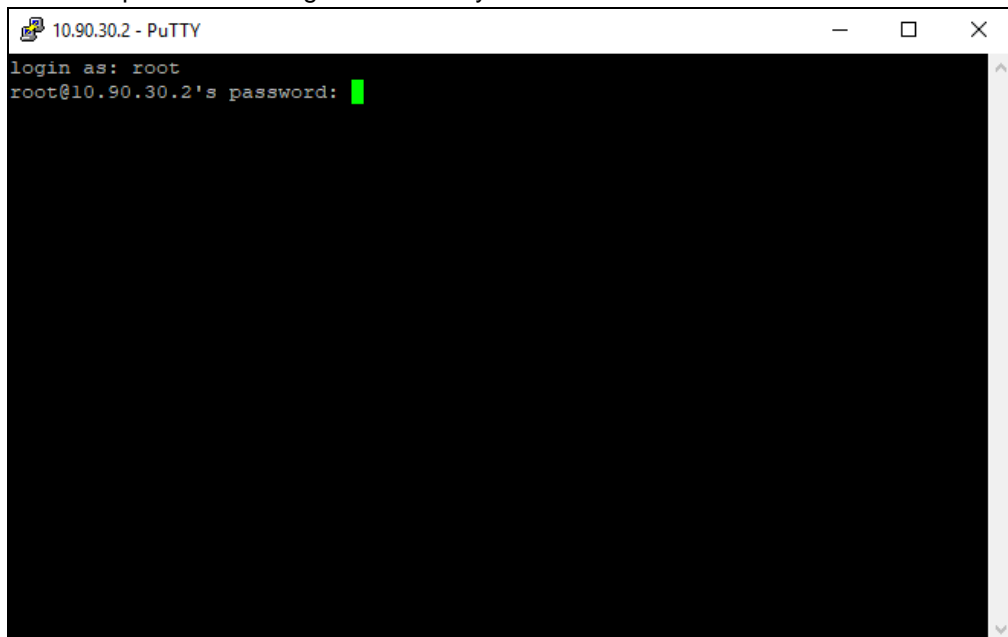
4. Navigate to the **Connection>SSH>X11** section. Enable the X11 forwarding feature and then enter the “localhost:0.0” on the X display location field to project the Linux UI image on your desired machine.



5. Click **Open** to connect to the Linux machine when you are done with the settings.
6. Login using the root account.



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.

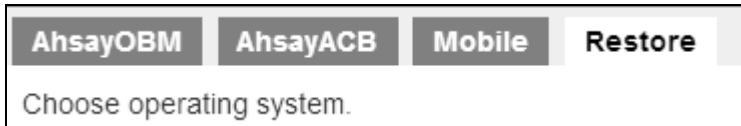
```
[root@[machine's name]]# cd /usr/local/obr
```

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

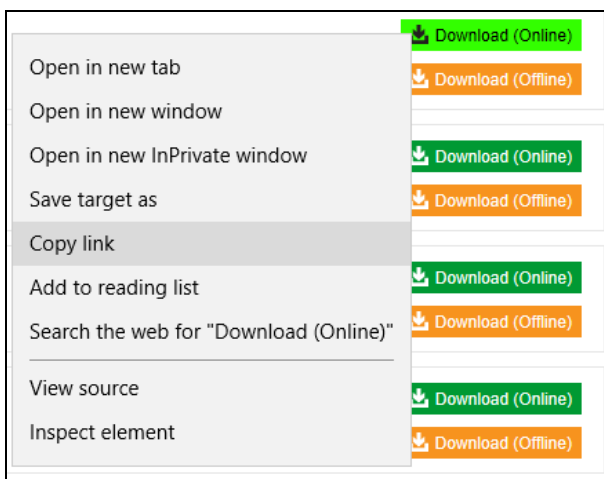
provider on a web browser, then click the blue download icon at the top right corner.



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.



13. Use the wget command in **red** below to download the AhsayOBR launcher from the CBS 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
Time Current
                                Dload  Upload  Total  Spent
Left Speed
100 527k 100 527k    0     0 2189k      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
100 10.9M 100 10.9M    0     0 13.9M      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
Time Current
                                Dload  Upload  Total  Spent
Left Speed
100 440k 100 440k    0     0 2395k      0 --:--:-- --:--:-- -
-:--:-- 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  Spent
Left Speed
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  Spent
Left Speed
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  Spent
Left Speed
100 3583k    0 3583k    0      0 1169k      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

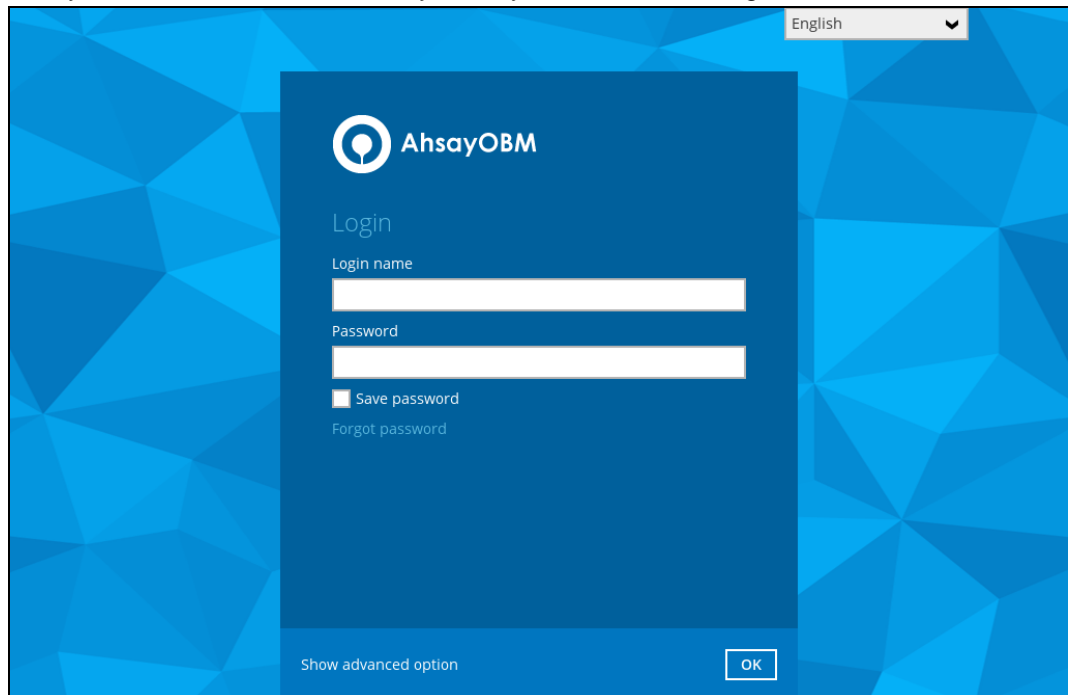
Verifying current user privilege ...
Current user has enough privilege to "config".

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: 0xe
Serial number of failed request: 7
Current serial number in output stream: 9
Startup Ahsay Online Backup Manager ...

```

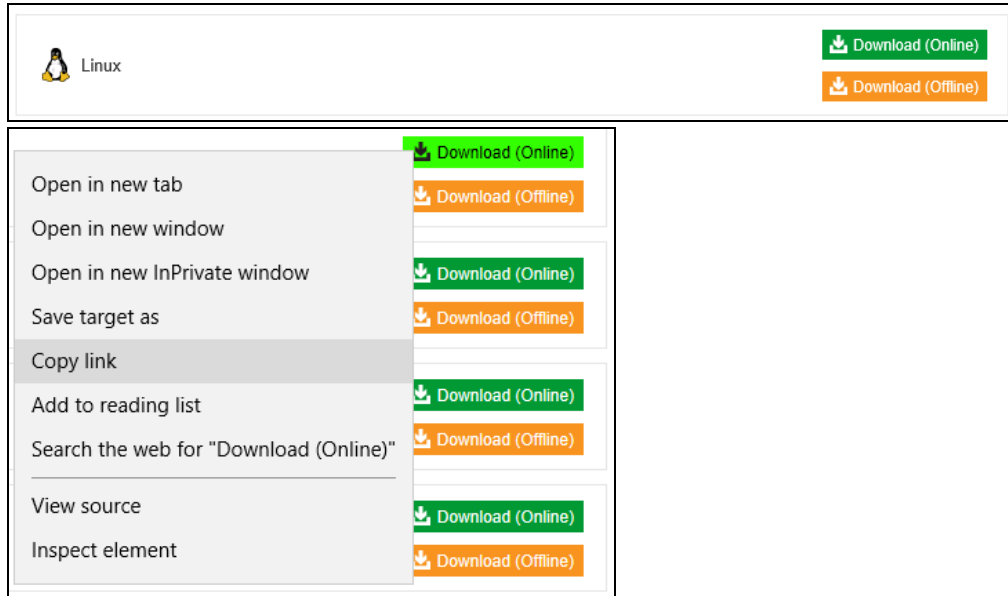
15. AhsayOBR is launched successfully when you see the following screen.



Option 2: Offline Installation Option

If you would like to use offline installation option, replace the steps 12-15 of [online installation option](#) 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 CBS 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 name '10.90.10.12'.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/octet-stream]
Saving to: 'obr-linux.tar.gz'

[<=>] 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/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': File exists
mv: cannot move '/tmp/_obm.190111123614/bin' to
'/usr/local/obr/RestoreWizard/bin': File exists
mv: cannot move '/tmp/_obm.190111123614/jvm' to
'/usr/local/obr/RestoreWizard/jvm': File exists
mv: cannot move '/tmp/_obm.190111123614/licenses' to
'/usr/local/obr/RestoreWizard/licenses': File exists
mv: cannot move '/tmp/_obm.190111123614/termsfuse' to
'/usr/local/obr/RestoreWizard/termsfuse': File exists
mv: cannot move '/tmp/_obm.190111123614/util' to
'/usr/local/obr/RestoreWizard/util': File exists
Configure Application Path: /usr/local/obr/RestoreWizard
Log Time: Fri Jan 11 12:37:00 HKT 2019

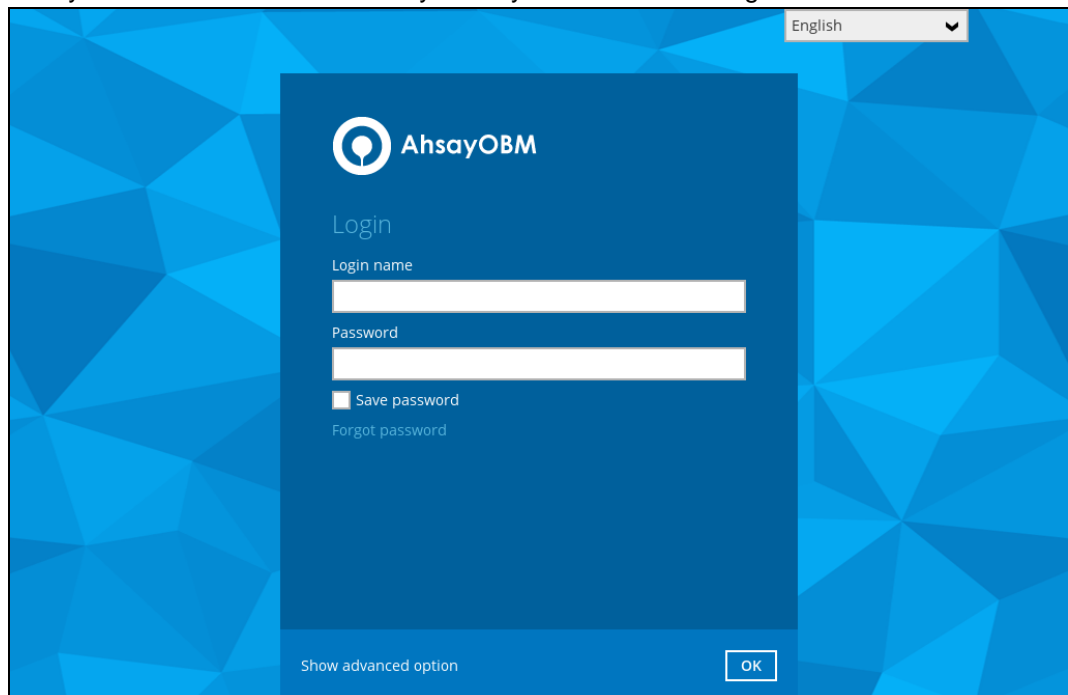
Verifying current user privilege ...
```

```
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: 0xe
  Serial number of failed request: 7
  Current serial number in output stream: 9
Startup Ahsay Online Backup Manager ...
```

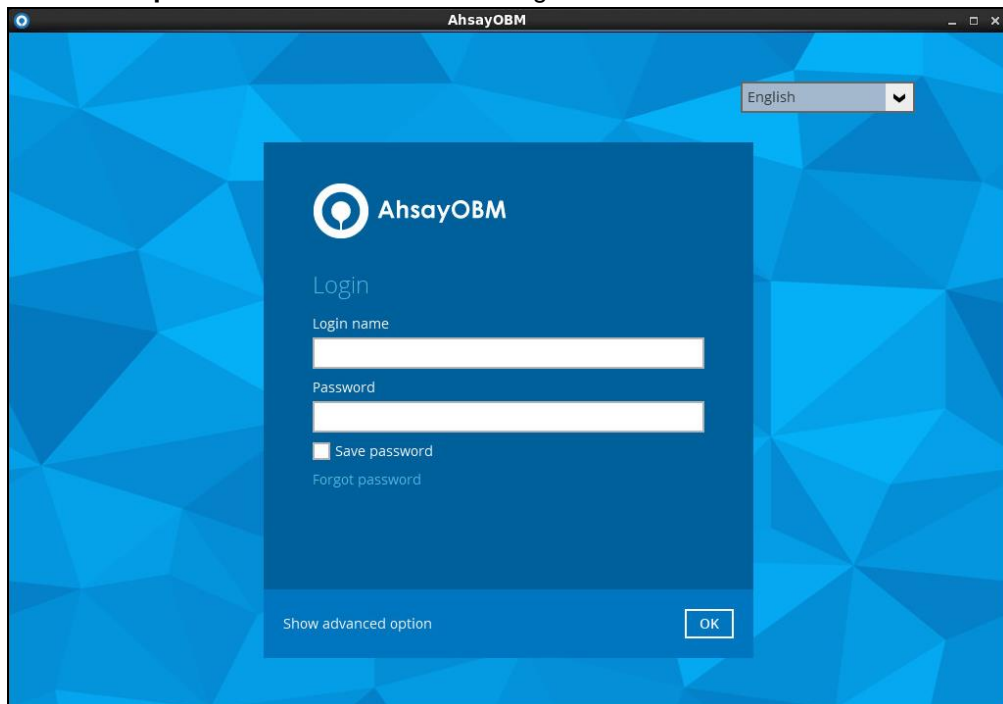
5. AhsayOBR is launched successfully when you see the following screen.



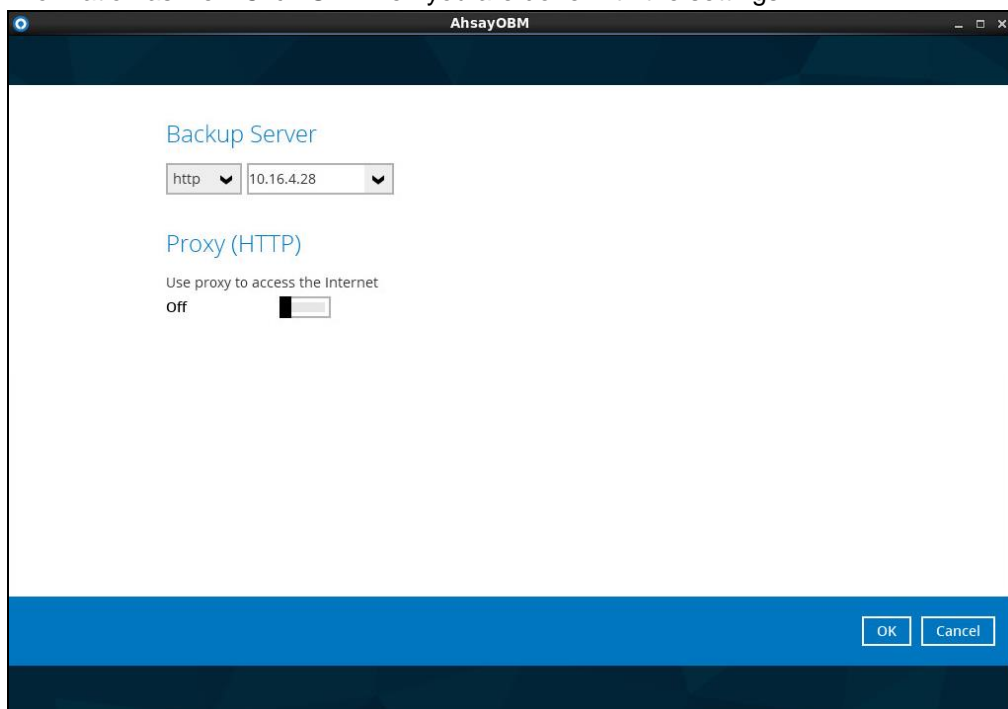
5 Login to AhsayOBR

This section provides information on how to log in to the AhsayOBR as well as the necessary network settings for login.

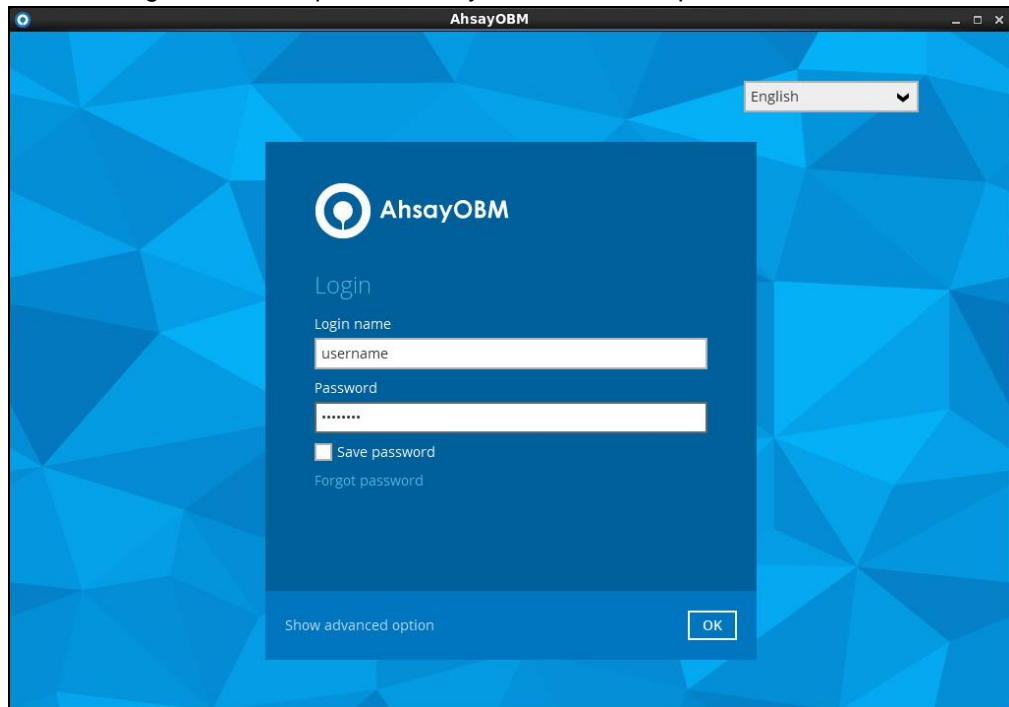
1. The AhsayOBR launches automatically and you will see the following screen. Click **Show advanced option** to enter the network settings.



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 as well. Click **OK** when you are done with the settings.



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



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

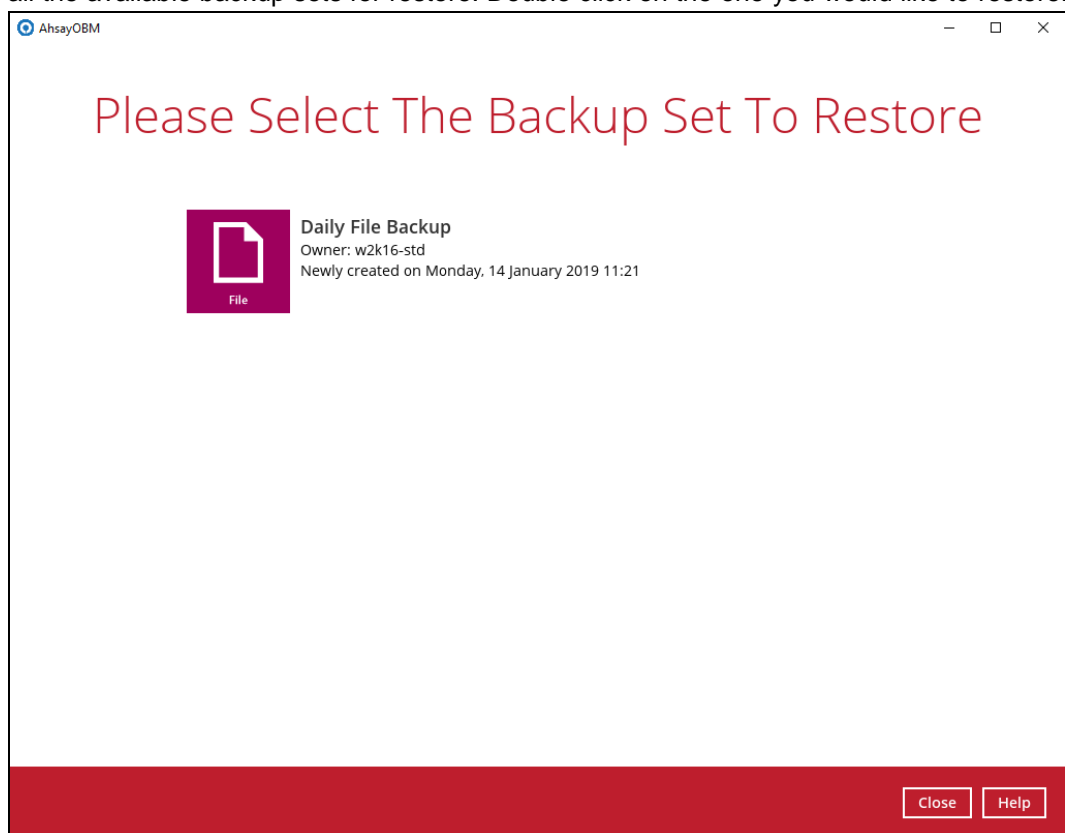
6 Restore Backup

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

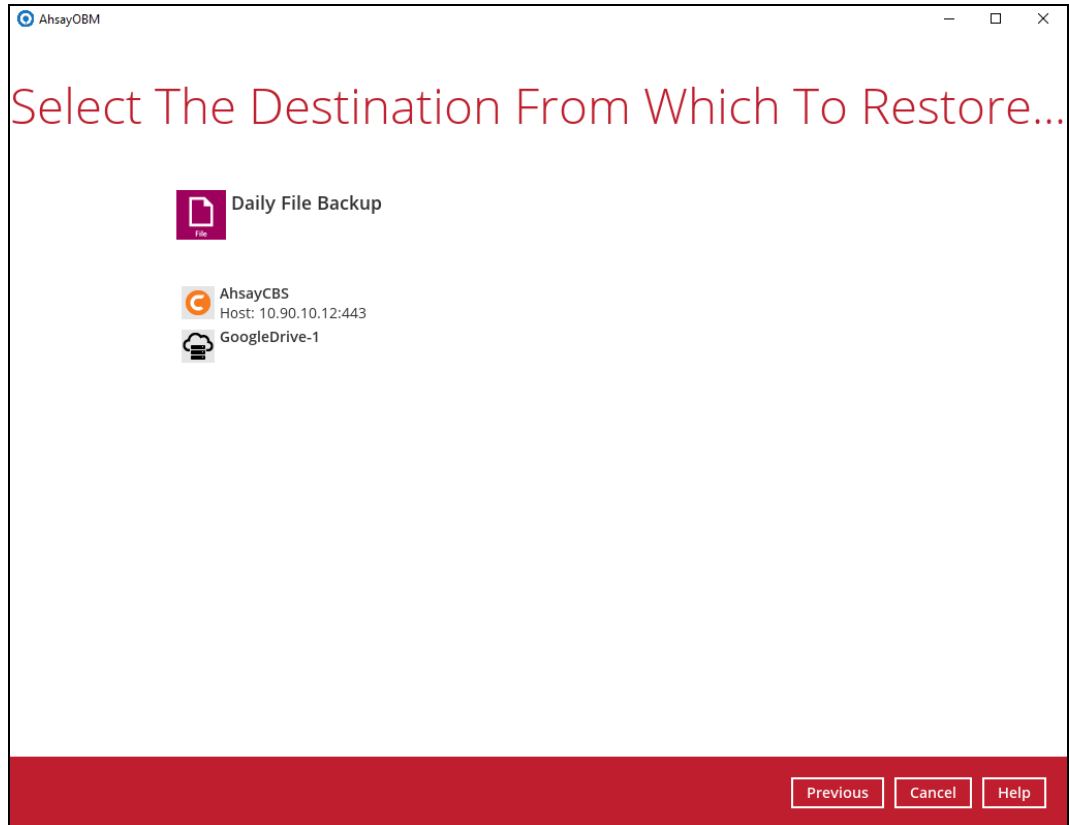
NOTES

1. AhsayOBR can be used to restore data that is backed up with AhsayACB or AhsayOBM.
2. Clicking **Cancel** then **Yes** at any point during the steps below will close the software completely. After the software is closed, you will have to launch it again according to the instructions in [Download and Launch AhsayOBR](#) if you wish to use it.

1. 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.



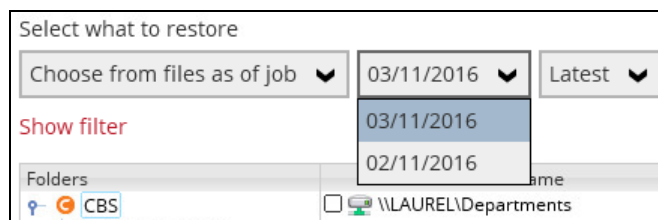
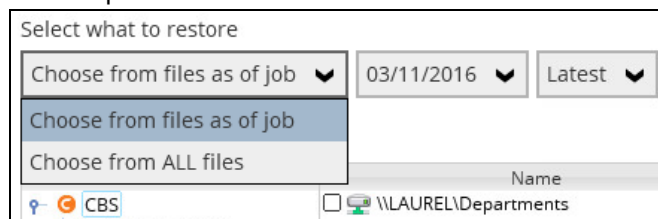
2. Click on the location from which you would like to restore the data from.

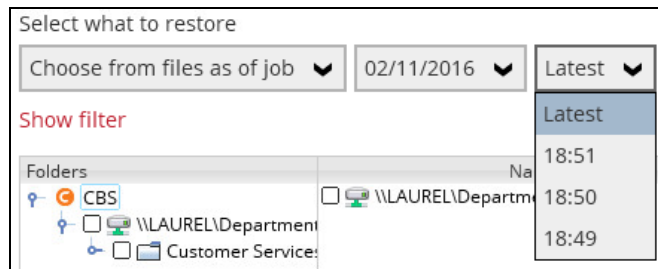


3. Select to restore files from a specific backup job, or from all files available, then select the files or folders that you would like to restore.

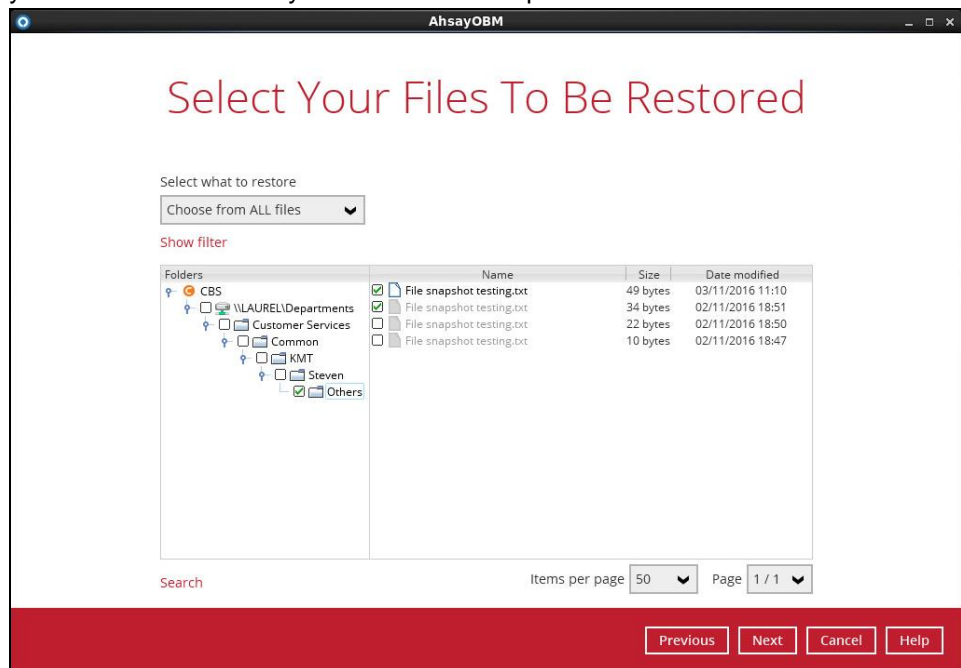
There are two options from the **Select what to restore** drop-down menu:

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





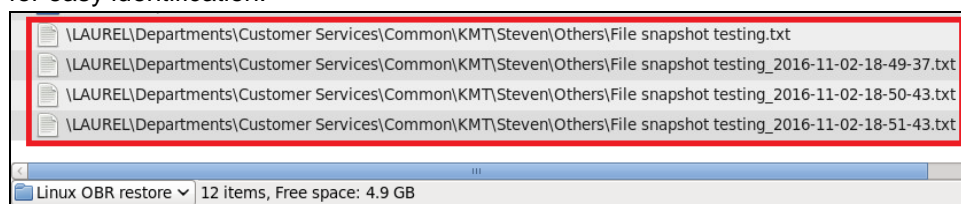
- **Choose from ALL files** – this option allows you to restore all the available backup versions for this backup set. Among all the available backup versions, you can even select only some of the backup versions of a file to restore.



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

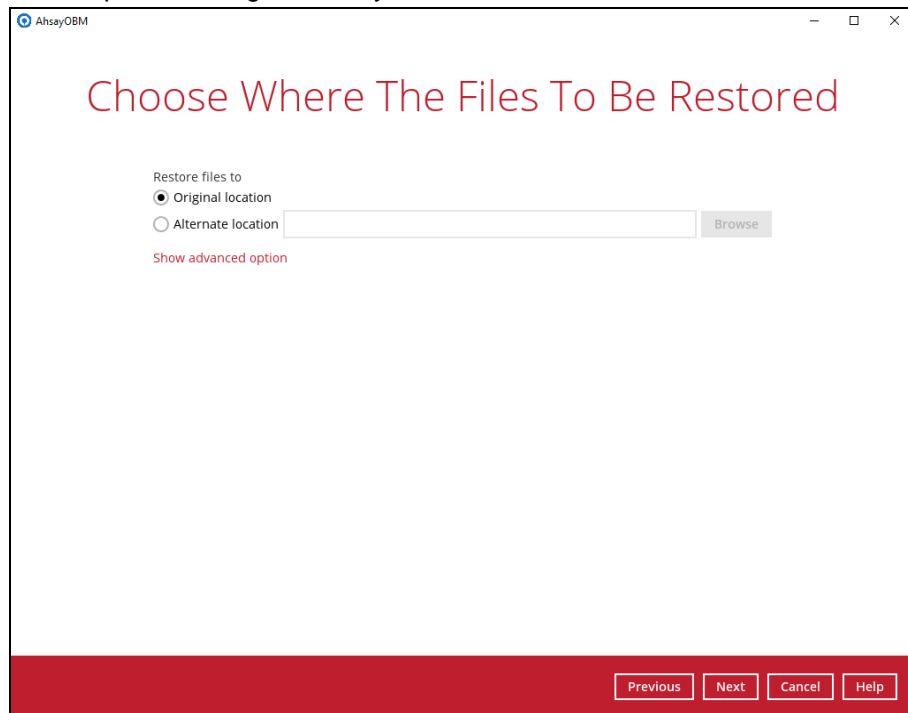
When the restore is done, you will see all the selected backup versions in the restore destination. The latest backup version has the file name as the original file, while the previous versions have the time stamps added to their file names for easy identification.



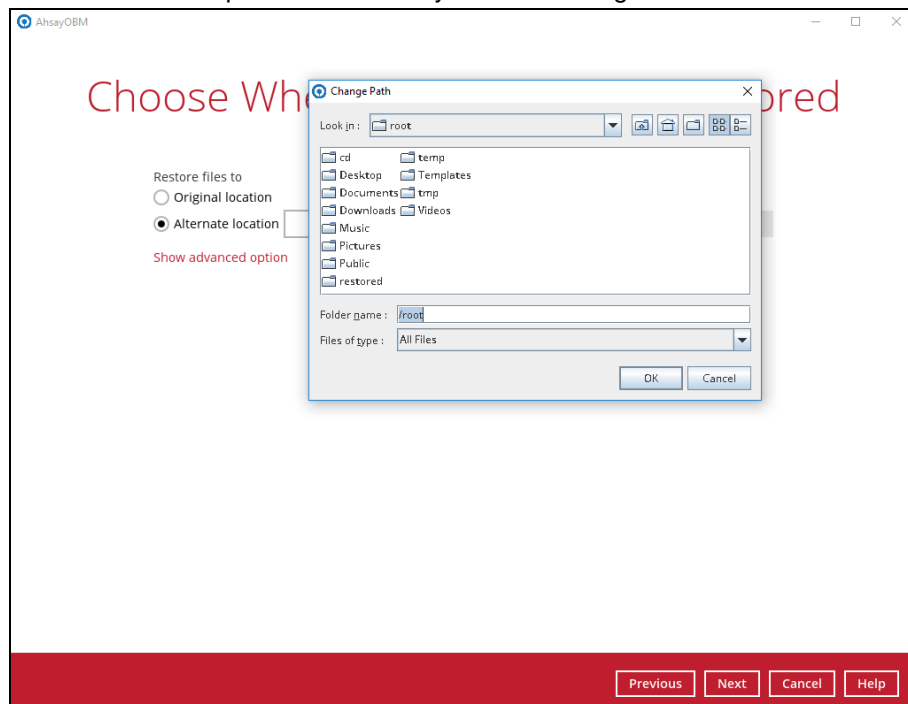
4. Click **Next** to proceed when you are done with the selections.

5. 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.



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

Original Location

Choose Where The Files To

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

Alternate Location

Choose Where The Files To

Restore files to

☐ Original location

☒ Alternate 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

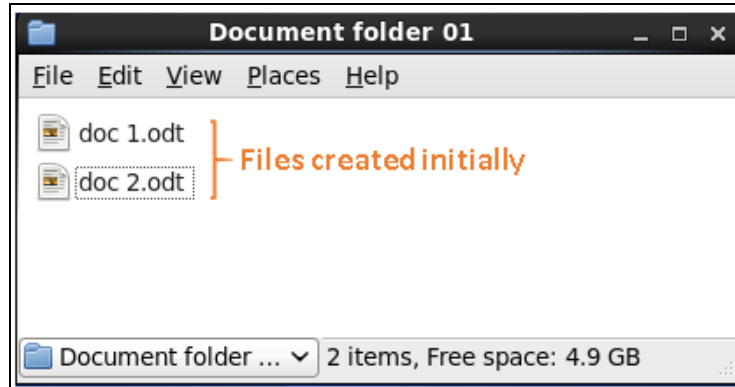
By enabling this option, file permissions of the operating system files will be restored. File permission defines, for example, the right to view or change a file by the system owner/group/individual. If file permission is not restored properly, there is a potential risk that the restored data could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

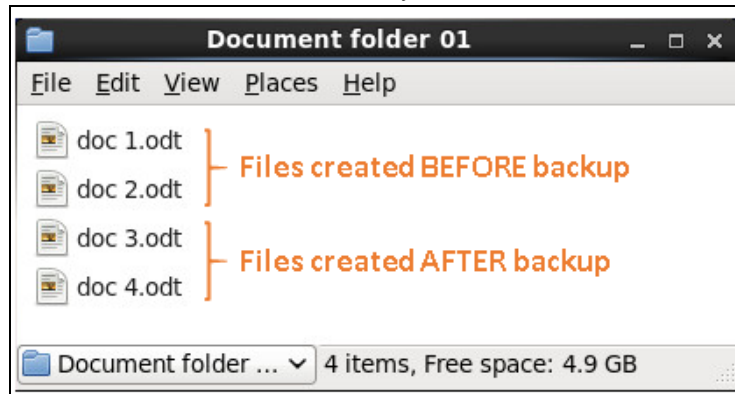
Example:

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



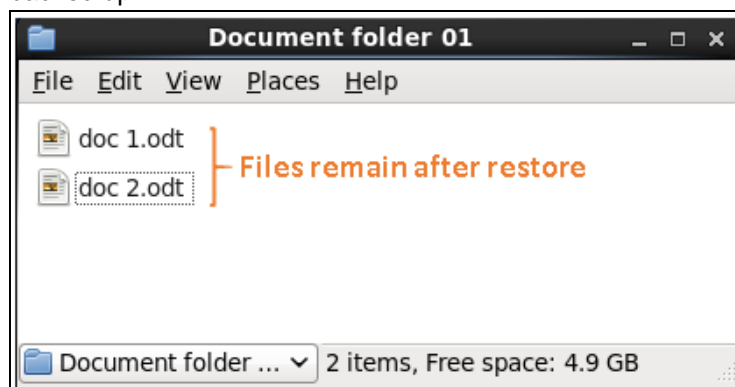
- ii) A backup is performed for folder **Document folder 01**.

- 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.

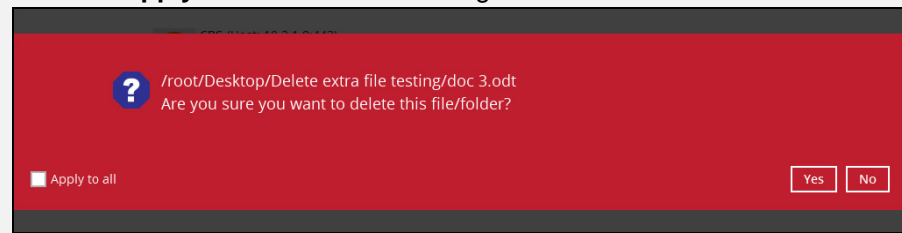


WARNING

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	<p>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.</p> <p>Target of the link is updated to the new relative path. In other word, the link now points to the new alternate location.</p>
Disabled	<p>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.</p> <p>However, target of the link is NOT updated to the new relative path. In other word, the link still points to the original location.</p>

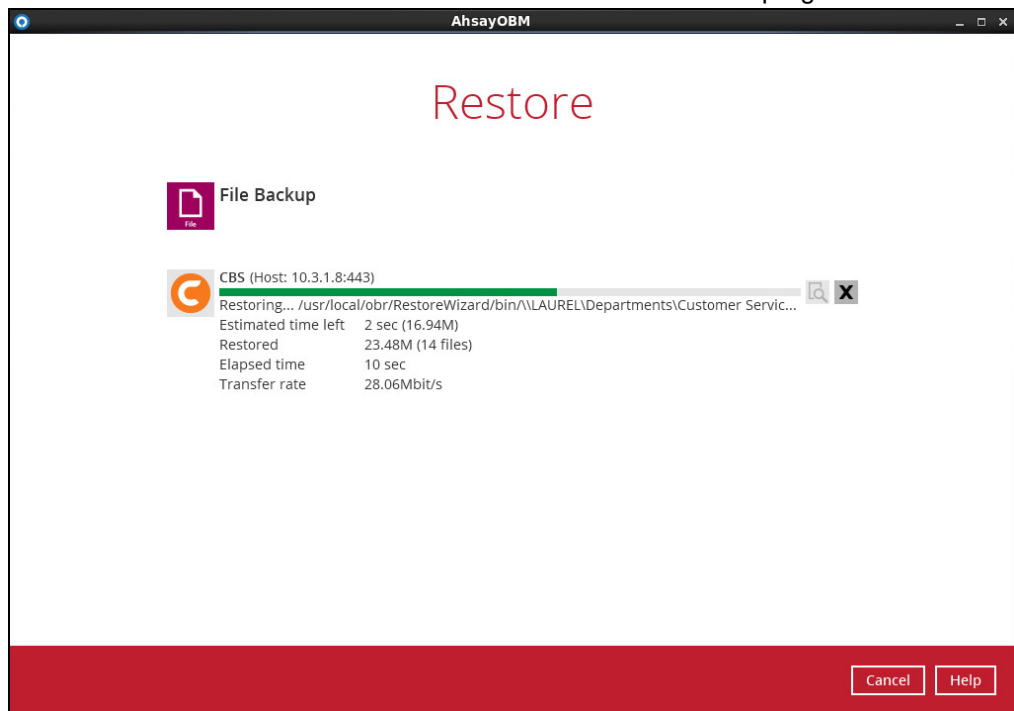
⦿ **Verify checksum of in-file delta files during restore**

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.

7. Click **Next** to proceed with you are done with the settings.
8. 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.

9. Click **Restore** to start the restore.
10. You will see a screen like the one shown below with the restore progress bar.



11. The progress bar shows **Restore Completed Successfully** when the restore is done. Click **Close** to exit the confirmation screen.
12. 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 launch it again according to the instrcutons in [Download and Launch AhsayOBR](#).

7 Contact Ahsay

Technical Assistance

To contact Ahsay support representatives for technical assistance, visit the following website:

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

Also use the Ahsay Knowledge Base for resource such as Hardware Compatibility List, Software Compatibility List, and other product information:

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

Documentation

Documentations for all Ahsay products are available at:

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

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

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

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