



Ahsay Offsite Backup Server and Ahsay Replication Server

v6

Setup Guide

Ahsay Systems Corporation
Limited

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Ahsay Offsite Backup Server and Ahsay Replication Server Setup Guide

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1 Overview

This document provides information on how to setup Offsite Backup Server and Replication Server on different operating systems, i.e. Windows, Linux, Solaris and FreeBSD.

This document is separated into 2 major sections:

- a. Chapter 2 Install – provides information on how to install AhsayOBSR on different operating systems.
- b. Chapter 4 Uninstall – provides information on how to uninstall AhsayOBSR on different operating systems.

1.1 Conventions

| Convention | Meanings | Example |
|---------------|------------------------------------------|--------------------------------------------------------------------------------------|
| Bold | Important Information | WARNING: You must check the timestamp of obrA.jar before proceeding to step2. |
| <i>Italic</i> | Folder Path or File Path | <i>/usr/local/obs/conf</i> |
| [] | Graphical Interface Elements | [Manage Log] |
| %% | Filepath in Windows format | %AhsayOBSR_HOME% |
| \$ | Filepath in Linux/Solaris/FreeBSD format | \$AhsayOBSR_HOME |
| <i>italic</i> | Command | <i>mkdir /usr/local/obs</i> |

1.2 Definitions, Acronyms and Abbreviations

| Term/Abbreviation | Definition |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AhsayOBS | Ahsay Offsite Backup Server |
| AhsayRPS | Ahsay Replication Server |
| AhsayOBM | Ahsay Online Backup Manager |
| AhsayACB | Ahsay A-Click Backup Manager |
| AhsayNCU | Ahsay NAS Client Utility |
| AhsayOBSR_HOME OBS_HOME | The install location of AhsayOBSR. <u>Windows</u> <i>C:\Program Files\AhsayOBS and AhsayRPS\</i> <u>Linux/Solaris/FreeBSD</u> <i>/usr/local/obs/</i> |
| AhsayOBSR_HOME_BAK AhsayOBS_HOME_BAK | The backup location of AhsayOBSR. It is used temporarily during the install/upgrade process. <u>Windows</u> <i>C:\Program Files\AhsayOBS and AhsayRPS.bak\</i> <u>Linux/Solaris/FreeBSD</u> <i>/usr/local/obs.bak/</i> |
| CONF_HOME | The directory where AhsayOBS and AhsayRPS stores its system configuration. The default location is: <i>%AhsayOBSR_HOME%\conf</i> |
| USER_HOME | The directories where AhsayOBS & AhsayRPS store the AhsayOBM & AhsayACB users accounts. The default location is: <i>%AhsayOBSR_HOME%\users</i> |
| POLICY_HOME | The directory where AhsayOBS & AhsayRPS store its system users and group policy information. The default location is: <i>%AhsayOBSR_HOME%\system\policy</i> |



| | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| SYSTEM_HOME | The directory where AhsayOBS & AhsayRPS store its system information. The default location is: <i>%AhsayOBSR_HOME%\system</i> |
| WEBAPPS_HOME | Location of the webapps directory inside the installation directory of AhsayOBSR. i.e. <i>%AhsayOBSR_HOME%\webapps</i> |
| WEBAPPS_HOME_BAK | A backup of the webapps directory inside the backup directory of AhsayOBSR. i.e. <i>%AhsayOBSR_HOME%\webapps.bak</i> |
| JAVA_HOME | The location where JAVA is installed. |

1.3 System Requirements

Please refer to the [FAQ: Ahsay Software Compatibility List \(SCL\) for version 6.3 or above \(2323\)](#) for system requirements of AhsayOBSR v6.

2 Best Practices & Recommendations

This section is provided to help give suggestions of best practices or recommendation that you should consider before performing the installations.

2.1 AhsayOBSR Hardware Requirements

AhsayOBSR should be installed on a machine supporting 64 bit multiple CPU and multiple cores. Installing on a 64 bit Operating System will allow AhsayOBSR to run on a 64 bit Java JRE platform. As 64 bit Java is able to support a larger Java heap size setting. This configuration will provide sufficient capacity for future business expansion and to meet the needs of existing customers. Also, to support new AhsayOBSR features.

A more powerful machine will also reduce the need for frequent hardware upgrades, which will require service down time for data migration.

It is a good idea to ensure your AhsayOBSR server is equipped with some redundancy features, i.e power supply, network card, and connect it to a UPS (Uninterruptible Power Supply).

2.2 AhsayOBSR Configuration

Before installation, it is recommended to consider the Hard Drive setup that would hold the installation and storage for the user data, as this can affect the performance of the system. If possible, it is recommended to:

- i. A separate drive dedicated for your O/S installation
- ii. A separate local dedicated for your AhsayOBS installation home
- iii. A separate local drive for each individual AhsayOBS user home
- iv. A separate local drive for AhsayOBS system home
- v. Distribute user accounts across multiple user homes to balance the I/O load
- vi. It is recommended that AhsayOBSR service is running on a dedicated machine

It is not recommended to use the O/S partition or drive as the AhsayOBS system or user home. If the O/S partition runs out of space, this will cause your O/S to become unstable and may even crash your AhsayOBS server.

2.3 Supported Platforms

Before installing AhsayOBSR, please ensure that the OS platform is supported by V6. For further details on this, please refer to the [FAQ: Ahsay Software Compatibility List \(SCL\) for version 6.3 or above \(2323\)](#)

2.4 Use of Static IP address

The use of dynamic IP addresses for AhsayOBS domain names may result in an unstable backup service whenever the IP address re-cycles.

It is strongly recommended to use a static IP address for your AhsayOBS server to ensure a stable and reliable backup service.

2.5 Connection to license server

Before installation of AhsayOBSR, please ensure that the system is able to connect to <https://lic.ahsay.com>. Without connection to the license server, when entering your license key onto the software license page, the system would trigger an “activate product key” error. In addition, it is essential to make sure that AhsayOBS could call the following command in the command prompt when setting up AhsayOBS.

Windows

```
C:\> ipconfig
```

Please also check with the variable “Path” contains the value “%SystemRoot%\system32\” in [My Computer] > [Properties] > [Advanced] > [Environment Variables] > [Path] in Windows 2003, while Windows 2008, you can check this in [My Computer] > [Properties] > [Advanced system settings] > [Advanced] > [Environment Variables] > [Path].

Linux/Unix

```
> ifconfig
```

Please also check the environment variable “PATH” with the following value “/sbin” , “/usr/sbin” and “/usr/local/sbin”.

2.6 Use of network load balancers

If you are considering the use of network load balancers, i.e. Round robin routing, dual WAN router or network card with multiple external IP address. It is recommended to setup a static route for the server connection to lic.ahsay.com . This would ensure that the same external ip address would connect to the license server and triggering license errors.

3 Installation

This section outlines all the steps needed for performing a brand new installation of AhsayOBSR.

3.1 Windows

Note: It is recommended to install AhsayOBSR on Server-graded OS platform. However, for evaluation of AhsayOBSR functionality, installation on Windows XP or Windows 7 platforms would be fine for testing.

Method 1 – Auto Installation

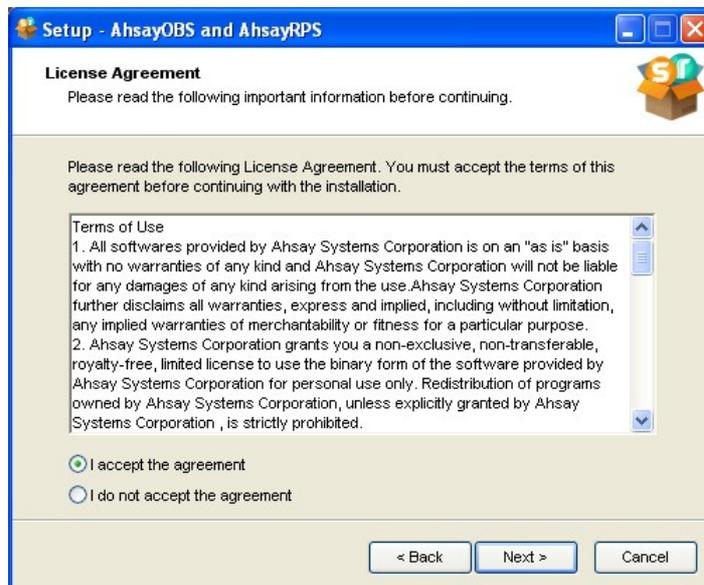
1. Download AhsayOBSR installer (exe version) from our [website](#).
2. Execute the obsr-win.exe file downloaded and the install wizard will be shown.
3. Select the language that you would like to use during the installation from the dropdown box and click the [OK].



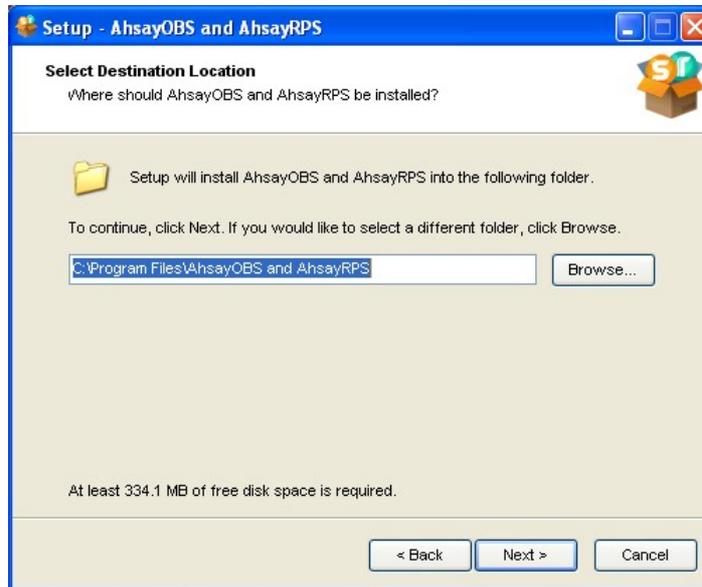
4. A welcome screen will be shown similar to the example below, please click [Next] to go to the next step.



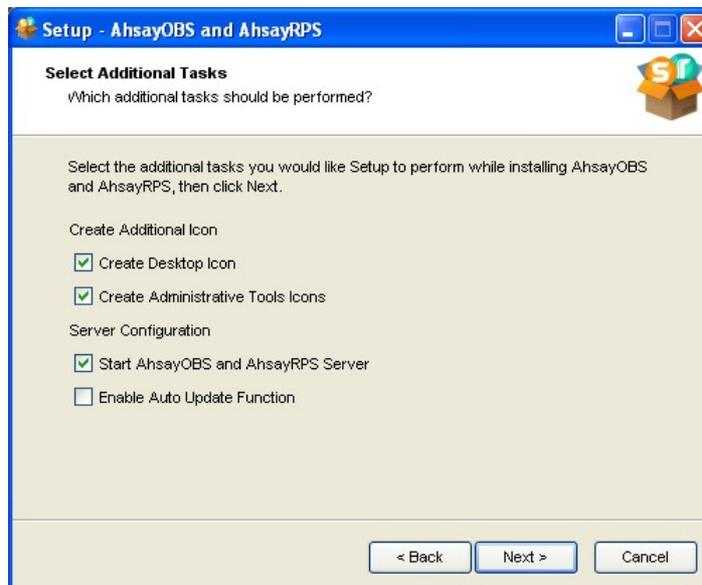
5. Choose [I accept the agreement] and click the [Next] button to start the installation after you have read the terms and conditions.



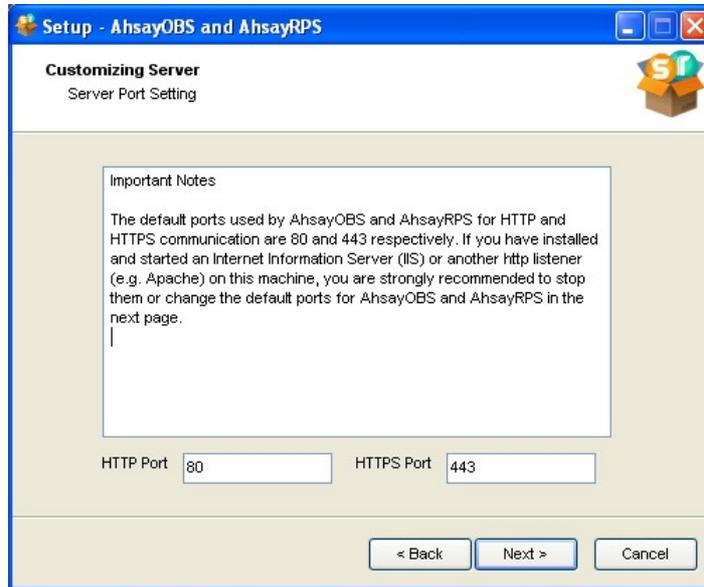
6. Select the folder location that you would like to install AhsayOBSR onto and click on the [Next] button.



7. Select/deselect the options according to your preferences and click the [Next] button.

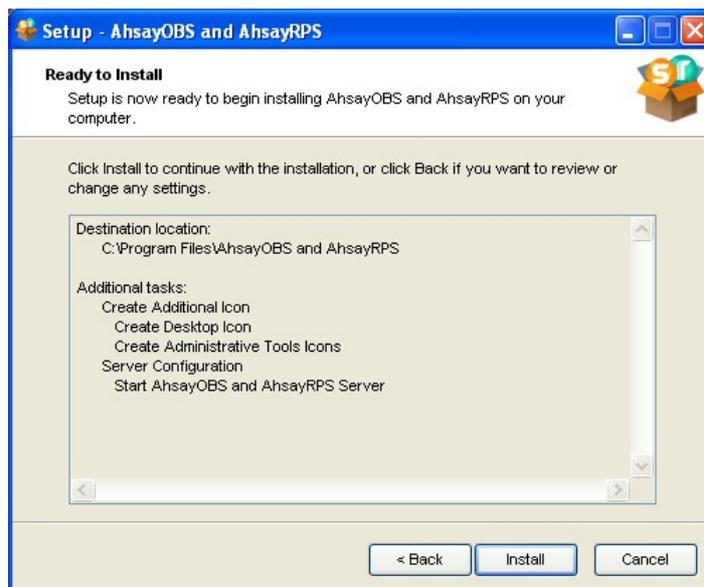


8. Enter the port number for HTTP and HTTPS connection and click the [Next] button. By default, it is using port 80 for HTTP and port 443 for HTTPS.

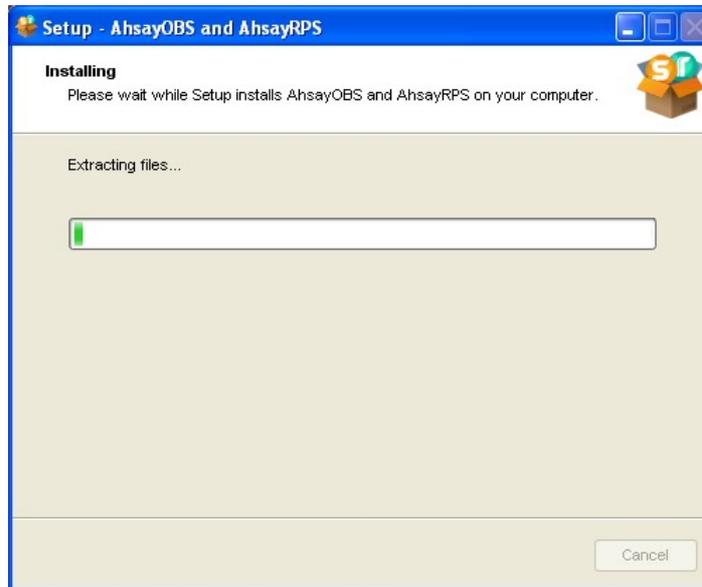


Note: if you choose to use non-standard port numbers, please ensure that the firewall on the network is set to allow traffic on the select port number.

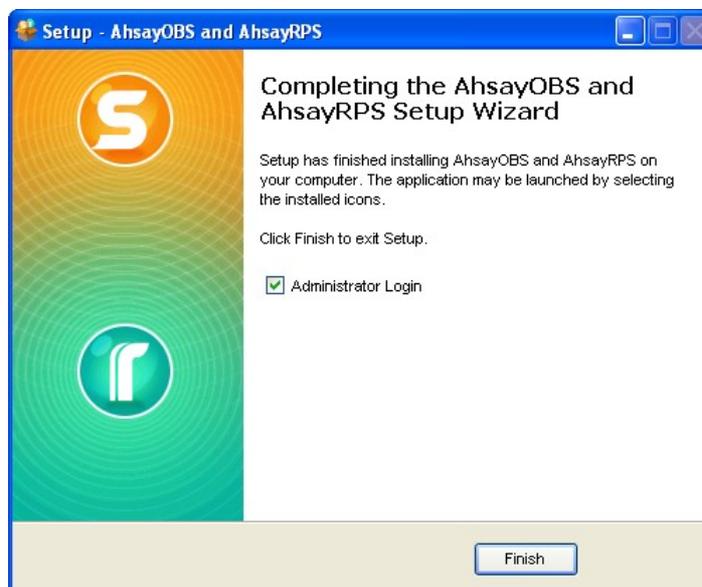
9. A summary detail would be provided. Please verify the installation option that is listed. If they are correct, click the [Install] button to begin the installation.



10. Wait until the installation process is completed.



11. Upon completion, AhsayOBSR should be started automatically after clicking on the [Finish] button. To verify the installation, please point the web browser to <http://your-backup-server/>. For more information, please refer to the Quick Start Section in [AhsayOBS Administrator's Guide](#).



Method 2 – Manual Installation

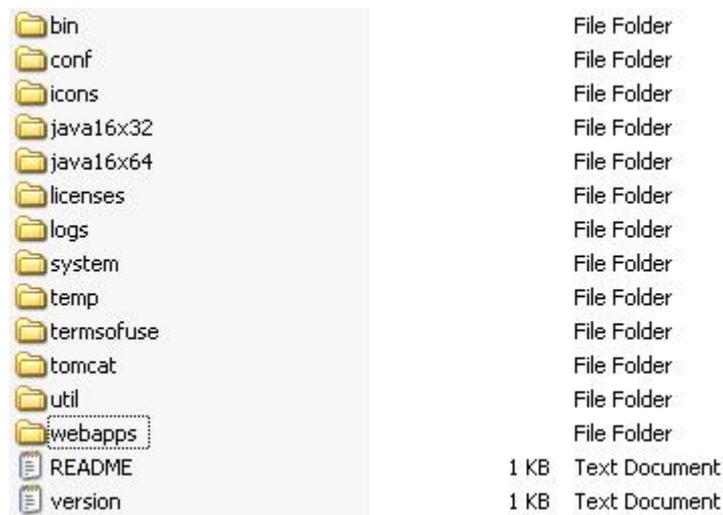
This method is only available for users who would like to install the default version of AhsayOBSR.

1. Download AhsayOBSR installer (zip version) from our [website](#).
2. Open command prompt and create a new directory for %AhsayOBSR_HOME%.

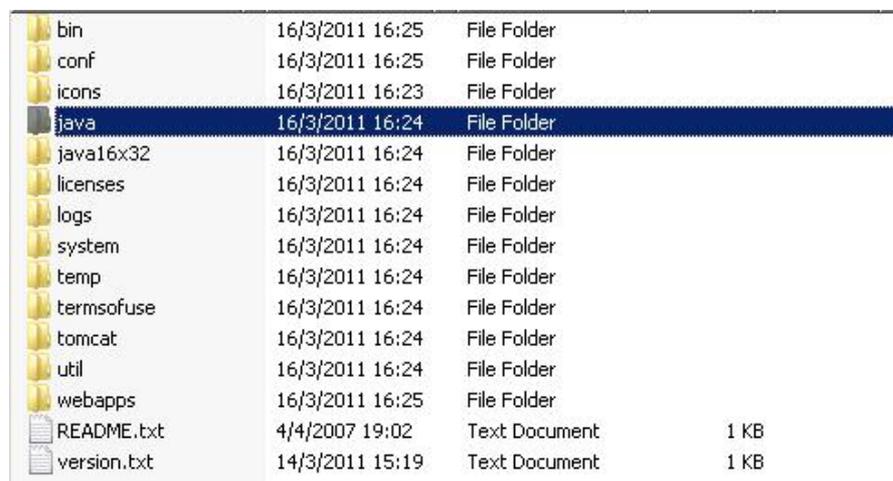
```
mkdir "c:\Program Files\AhsayOBS and AhsayRPS"
```

3. Extract all the files in the installer file (obsr-win.zip) to %AhsayOBSR_HOME%.

Once done, please ensure that directory structure is similar to image shown below:



4. If the system is running on a 64bit Windows, please rename java16x64 to java. So that the folder listing would be similar to the example below.



If however the system is running on a 32bit version of Windows, please rename the java16x32 folder to Java. So that the folder listing would be similar to the example below:

| | | | |
|-------------|-----------------|---------------|------|
| bin | 16/3/2011 16:25 | File Folder | |
| conf | 16/3/2011 16:25 | File Folder | |
| icons | 16/3/2011 16:23 | File Folder | |
| java | 16/3/2011 16:24 | File Folder | |
| java16x64 | 16/3/2011 16:24 | File Folder | |
| licenses | 16/3/2011 16:24 | File Folder | |
| logs | 16/3/2011 16:24 | File Folder | |
| system | 16/3/2011 16:24 | File Folder | |
| temp | 16/3/2011 16:24 | File Folder | |
| termsfuse | 16/3/2011 16:24 | File Folder | |
| tomcat | 16/3/2011 16:24 | File Folder | |
| util | 16/3/2011 16:24 | File Folder | |
| webapps | 16/3/2011 16:25 | File Folder | |
| README.txt | 4/4/2007 19:02 | Text Document | 1 KB |
| version.txt | 14/3/2011 15:19 | Text Document | 1 KB |

5. Change the working directory to %AhsayOBSR_HOME%\util\bin

```
cd "c:\Program Files\AhsayOBS and AhsayRPS\util\bin"
```

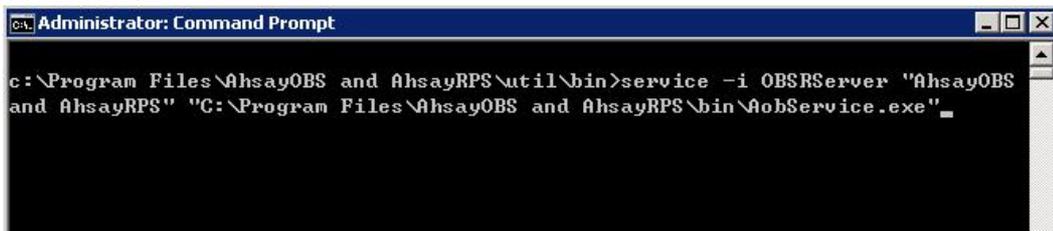
6. Run the following command within the command prompt to install the service:

```
service.exe -i <Service Name> <Service Display Name> <exe path>
```

Where:

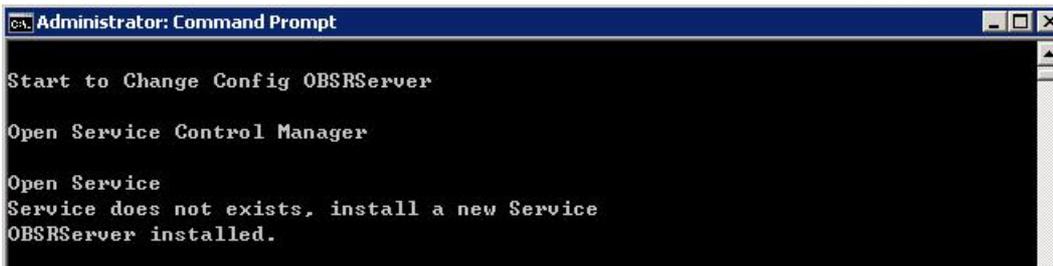
- Parameter "-i" stand for install service and parameter "-r" stands for remove service.
- <Service Name> - is the name of the service.
- <Service Display Name> – is the display name of the service.
- <exe path> - is the path to AobService.exe. By default, it is located at %AhsayOBSR_HOME%\bin

For example, in our case, we should run the following command:



```
Administrator: Command Prompt
c:\Program Files\AhsayOBS and AhsayRPS\util\bin>service -i OBSRServer "AhsayOBS and AhsayRPS" "C:\Program Files\AhsayOBS and AhsayRPS\bin\AobService.exe"
```

A message of "AhsayOBSRServer installed" as shown below will be displayed on the screen to advise that the service has been installed successfully.



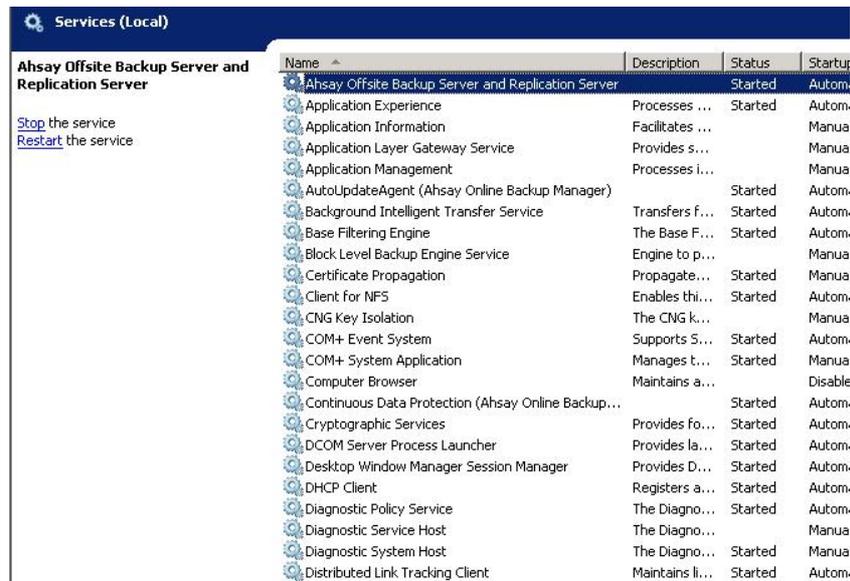
```
Administrator: Command Prompt
Start to Change Config OBSRServer
Open Service Control Manager
Open Service
Service does not exists, install a new Service
OBSRServer installed.
```

7. Please start AhsayOBSR service via the Service management console. This can be reached from [Control Panel] -> [Administrative Tools] -> [Services]. Press the [Start] button to start the [Ahsay Offsite Backup Server and Replication Server] service.
8. The backup server is now ready to use. To verify this, please point the web browser to <http://your-backup-server/>. For more information, please refer to the Quick Start Section in [AhsayOBS Administrator's Guide](#).

Startup/Shutdown AhsayOBSR Services

If required, it is possible to stop and restart your AhsayOBSR service, with the steps shown below.

1. Select [Ahsay Offsite Backup Server and Replication Server] from [Control Panel] > [Administrative Tools] > [Services].



2. To start AhsayOBSR service, please press the [Start] link.
3. To stop AhsayOBSR service, please press the [Stop] link.

Note: When stopping the service for AhsayOBSR, please allow time for the service to stop. Depending on the current load, some system may require extra time to complete the shutdown of the service.

3.2 Linux

The following steps provide a guide to installing AhsayOBSR on a Linux platform.

Installation

1. Logon as root user in the Linux machine
2. Download AhsayOBSR (Linux Version) from our [website](#).
3. Define the directory you would like to install the software by settings AhsayOBSR_HOME environment variable. For example, to install AhsayOBSR to `/usr/local/obs`, please do the followings:

```
# OBS_HOME=/usr/local/obs;export OBS_HOME
```

4. Copy the installation file, `obsr-nix.tar.gz` to `$AhsayOBSR_HOME` and untar it.

```
# mkdir $OBS_HOME
# cp obsr-nix.tar.gz $OBS_HOME
# cd $OBS_HOME
# gunzip obsr-nix.tar.gz
# tar -xf obsr-nix.tar
```

Once the untar process has completed, please check that the directory listing is similar to the image below.

```
drwxr-xr-x 14 root root 4096 Mar  4 14:19 .
drwxr-xr-x  2 root root 4096 Mar  4 14:03 ..
drwxr-xr-x  2 root root 4096 Mar  4 14:15 bin
drwxr-xr-x  2 root root 4096 Mar  4 14:15 conf
drwxr-xr-x  7 root root 4096 Mar  4 14:15 java-linux-x64
drwxr-xr-x  7 root root 4096 Mar  4 14:16 java-linux-x86
drwxr-xr-x  2 root root 4096 Mar  4 14:16 licenses
drwxr-xr-x  2 root root 4096 Mar  4 14:16 logs
-rwxr-xr-x  1 root root 195 Apr  4 2007 README.txt
drwxr-xr-x  3 root root 4096 Mar  4 14:16 system
drwxr-xr-x  2 root root 4096 Mar  4 14:16 temp
drwxr-xr-x  2 root root 4096 Mar  4 14:16 termsfuse
drwxr-xr-x  7 root root 4096 Mar  4 14:16 tomcat
drwxr-xr-x  4 root root 4096 Mar  4 14:16 util
-rwxr-xr-x  1 root root   7 Jan 19 11:09 version.txt
drwxr-xr-x  5 root root 4096 Mar  4 14:17 webapps
```

- Install and startup the OBS service by the following command:

```
# /usr/local/obs/bin/install.sh
```

After executing the command, you should see the following output.

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

Start configuration on Generic Linux Platform (Linux)
Using OBSR HOME /usr/local/obs
JVM is verified for installation!
Minimum supported JVM version: 1.5
Current JVM version is supported for installation.
Installing [ Ahsay Offsite Backup Server and Replication Server ]
[ Ahsay Offsite Backup Server and Replication Server ] Service Script created at /usr/local/obs/bin/obsr
Install Service for NIX type OS
Using init script path /etc/init.d
Using run level script path /etc/rc.d
Copying script obsr to /etc/init.d
Creating symbolic link to run levels
You may start this service by:

sh "/etc/init.d/obsr" start &

[ Ahsay Offsite Backup Server and Replication Server ] setup completed!
Startup [ Ahsay Offsite Backup Server and Replication Server ]
Started [ Ahsay Offsite Backup Server and Replication Server ]
[root@Fed01 obs]# -----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name : root
Using SYSTEM_TYPE : linux
Using SYSTEM_ARCH : i686
Using PHYSICAL_MEM : 1003 (MB)
Using SYSTEM_RESV : 256 (MB)
-----
Using OBSR HOME : /usr/local/obs
Using JAVA_HOME : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS : -Xms128k -Xmx747m -Xss747m -Xrs -XX:+UseConcMarkSweepGC -XX:+UseParNewGC -XX:NewRatio=4 -XX:SurvivorRatio=10 -XX:PermSize=128m -Dsun.net.inetaddr.ttl=3600 -Dnet.work.address.cache.ttl=3600 -Dsun.net.inetaddr.negative.ttl=300 -Dnet.work.address.cache.negative.ttl=300 -Djava.net.preferIPv4Stack=true -Djava.library.path=/usr/local/obs/tomcat/lib
Using CATALINA_OPTS : -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/local/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1 -Djava.servlet.context.tempdir=/usr/local/obs/work
-----
Starting OBSR service
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Starting AhsayOBSR service". If this occurs, please press the space bar to complete the install.

- AhsayOBSR should be started automatically. To verify that, please point the web browser to <http://<your-backup-server>/>. For more information, please refer to the Quick Start Section in [OBS Administrator's Guide](#).

Startup/Shutdown AhsayOBSR

If required, it is possible to stop and restart your AhsayOBSR service, with the commands shown below.

To startup AhsayOBSR, please run the following command:

```
# /etc/init.d/obsr start
```

After running the command, the following output should appear to advise that the service has started.

```
Starting up [ Ahsay Offsite Backup Server and Replication Server ]
-----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name   : root
Using SYSTEM_TYPE  : linux
Using SYSTEM_ARCH   : i686
Using PHYSICAL_MEM  : 1003 (MB)
Using SYSTEM_RESV   : 256 (MB)
-----
Using OBSR_HOME     : /usr/local/obs
Using JAVA_HOME     : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT  : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS     : -Xss128k -Xms747m -Xmx747m -Xrs -XX:+UseConcMarkSweepGC -X
X:+UseParNewGC -XX:NewRatio=4 -XX:SurvivorRatio=6 -XX:PermSize=128m -Dsun.net.in
etaddr.ttl=3600 -Dnetworkaddress.cache.ttl=3600 -Dsun.net.inetaddr.negative.ttl=
300 -Dnetworkaddress.cache.negative.ttl=300 -Djava.net.preferIPv4Stack=true -Dja
va.library.path=/usr/local/obs/tomcat/lib
Using CATALINA_OPTS : -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/loca
l/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1 -D
javax.servlet.context.tempdir=/usr/local/obs/work
-----
Starting OBSR service
[ Ahsay Offsite Backup Server and Replication Server ] is running
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Starting AhsayOBSR service". If this occurs, please press the space bar to complete the install

Once the service has been started, it would be possible to connect to the web console for AhsayOBSR via a web browser.

To shutdown AhsayOBSR, please run the following command:

```
# /etc/init.d/obsr stop
```

When shutting the system down, the following output should appear to advise that the service has been stopped.

```
Shutting down [ Ahsay Offsite Backup Server and Replication Server ]
-----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name   : root
Using SYSTEM_TYPE  : linux
Using SYSTEM_ARCH   : i686
-----
Using OBSR_HOME     : /usr/local/obs
Using JAVA_HOME     : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT  : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS     : -Djava.net.preferIPv4Stack=true -Djava.library.path=/usr
/local/obs/tomcat/lib -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/loca
l/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1
Using CATALINA_OPTS : -Djavax.servlet.context.tempdir=/usr/local/obs/work
Stopping OBSR service
[ Ahsay Offsite Backup Server and Replication Server ] is stopped
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Stopping AhsayOBSR service". If this occurs, please press the space bar to complete the install

3.3 FreeBSD

Installation

The following instructions provide the steps to perform an installation of AhsayOBSR on a FreeBSD platform.

Please note that the steps below assume that the FreeBSD installation is already using OpenJDK version 6. If this is not installed on the system, OpenJDK version 6 can be downloaded from:

For FreeBSD 7 (amd64):

<ftp://ftp.freebsd.org/pub/FreeBSD/ports/amd64/packages-7-stable/Latest/openjdk6.tbz>

For FreeBSD 7 (i386):

<ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-7-stable/Latest/openjdk6.tbz>

For FreeBSD 8 (amd64):

<ftp://ftp.freebsd.org/pub/FreeBSD/ports/amd64/packages-8-stable/Latest/openjdk6.tbz>

For FreeBSD 8 (i386):

<ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-8-stable/Latest/openjdk6.tbz>

For more reference, please refer to the following link:

<http://www.freebsdoundation.org/downloads/java.shtml>

1. Logon as root user in the FreeBSD machine.
2. Define the directory you would like to install the software by setting the AhsayOBSR_HOME environment variable. For example, to install AhsayOBSR to /usr/local/obsr, please do the followings:

```
# set OBS_HOME=/usr/local/obs;
```

3. Create a new \$AhsayOBSR_HOME directory (i.e. /usr/local/obs).

```
# mkdir -p /usr/local/obs
```

4. Download the AhsayOBSR v6 installer (obsr-nix.tar.gz) from our [website](#) to \$AhsayOBSR_HOME.

5. Please expand obsr-nix.tar.gz to \$AhsayOBSR_HOME:

```
# cd $AhsayOBSR_HOME
# gunzip obsr-nix.tar.gz
# tar -xf obsr-nix.tar
```

Please make sure the directory structure is similar to the followings:

```
drwxr-xr-x 14 root wheel 512 Mar 7 03:09 .
drwxr-xr-x 22 root wheel 512 Mar 7 03:09 ..
-rwxr-xr-x 1 root wheel 195 Apr 4 2007 README.txt
drwxr-xr-x 2 root wheel 512 Mar 7 03:08 bin
drwxr-xr-x 2 root wheel 1024 Mar 7 03:08 conf
drwxr-xr-x 7 root wheel 512 Mar 7 03:08 java-linux-x64
drwxr-xr-x 7 root wheel 512 Mar 7 03:08 java-linux-x86
drwxr-xr-x 2 root wheel 512 Mar 7 03:08 licenses
drwxr-xr-x 2 root wheel 512 Mar 7 03:08 logs
drwxr-xr-x 3 root wheel 512 Mar 7 03:08 system
drwxr-xr-x 2 root wheel 512 Mar 7 03:08 temp
drwxr-xr-x 2 root wheel 1024 Mar 7 03:08 termsfuse
drwxr-xr-x 7 root wheel 512 Mar 7 03:08 tomcat
drwxr-xr-x 4 root wheel 512 Mar 7 03:08 util
-rwxr-xr-x 1 root wheel 7 Mar 4 16:29 version.txt
drwxr-xr-x 5 root wheel 512 Mar 7 03:09 webapps
```

6. Please remove the bundled Java, with the commands:

```
# rm -rf /usr/local/obs/java-linux-x64
# rm -rf /usr/local/obs/java-linux-x86
```

7. Create a symbolic link from \$AhsayOBSR_HOME to \$JAVA_HOME using the command:

```
# ln -s /usr/local/diablo-jre1.6.0 java
```

8. From the command line, run the following command:

```
# setenv JAVA_HOME /usr/local/diablo-jre1.6.0
```

9. Install and startup the OBS service by the following command:

```
# /usr/local/obs/bin/install.sh
```

After executing the command, you should see the following output.

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

Start configuration on BSD distribution Platform (FreeBSD)
Using OBSR_HOME /usr/local/obs
"JAVA_HOME" variable is set.
Current Directory: "/usr/local/obs".
Created symlink "java" to "/usr/local/diablo-jre1.6.0".
Minimum supported JVM version: 1.5
Current JVM version is supported for installation.
Installing [ Ahsay Offsite Backup Server and Replication Server ]
[ Ahsay Offsite Backup Server and Replication Server ] Service Script created at /usr/local/obs/b
in/obsr
Install Service for BSD type OS
Copying script obsr to /usr/local/etc/rc.d
You may start this service by:

sh "/usr/local/etc/rc.d/obsr" start &

Remember to add an entry: obsr_enable="YES" to /etc/rc.conf

[ Ahsay Offsite Backup Server and Replication Server ] setup completed!
Startup [ Ahsay Offsite Backup Server and Replication Server ]
Started [ Ahsay Offsite Backup Server and Replication Server ]
FreeBS# -----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name : root
Using SYSTEM_TYPE : bsd
Using SYSTEM_ARCH : amd64
Using PHYSICAL_MEM : 1010 (MB)
Using SYSTEM_RESV : 256 (MB)
-----
Using OBSR_HOME : /usr/local/obs
Using JAVA_HOME : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS : -Xss256k -Xms754m -Xmx754m -Xrs -XX:+UseConcMarkSweepGC -XX:+UseParNewGC -X
X:NewRatio=4 -XX:SurvivorRatio=6 -XX:PermSize=128m -Dsun.net.inetaddr.ttl=3600 -Dnetworkaddress.c
ache.ttl=3600 -Dsun.net.inetaddr.negative.ttl=300 -Dnetworkaddress.cache.negative.ttl=300 -Djava.
net.preferIPv4Stack=true -Djava.library.path=/usr/local/obs/tomcat/lib
Using CATALINA_OPTS : -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/local/obs/work -Dtc.o
bs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1 -Djavax.servlet.context.tempdir=/usr
/local/obs/work
-----
Starting OBSR service
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Starting AhsayOBSR service". If this occurs, please press the space bar to complete the install.

10. Logon to the OBS Web Management Console and press the [Update] button on the [Manage System] -> [Software License] page.
11. The upgrade of AhsayOBSR from v5580 to v6 is now completed. To verify that, please point the web browser to <http://your-backup-server/>. For more information, please refer to the Quick Start Section in [OBS Administrator's Guide](#).

Startup/Shutdown AhsayOBSR

If required, it is possible to stop and restart your AhsayOBSR service, with the commands shown below.

To startup AhsayOBSR, please run the following command:

```
# /usr/local/etc/rc.d/obsr start
```

The following output would be shown after running the command to show that the service has been started.

```
Starting [ Ahsay Offsite Backup Server and Replication Server ]
[ Ahsay Offsite Backup Server and Replication Server ] is running
Free8# -----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name   : root
Using SYSTEM_TYPE  : bsd
Using SYSTEM_ARCH   : amd64
Using PHYSICAL_MEM : 1010 (MB)
Using SYSTEM_RESV  : 256 (MB)
-----
Using OBSR_HOME     : /usr/local/obs
Using JAVA_HOME     : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT  : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS     : -Xss256k -Xms754m -Xmx754m -Xrs -XX:+UseConcMarkSweepGC -XX:+Use
ParNewGC -XX:NewRatio=4 -XX:SurvivorRatio=6 -XX:PermSize=128m -Dsun.net.inetaddr.ttl=3
600 -Dnetworkaddress.cache.ttl=3600 -Dsun.net.inetaddr.negative.ttl=300 -Dnetworkaddre
ss.cache.negative.ttl=300 -Djava.net.preferIPv4Stack=true -Djava.library.path=/usr/loc
al/obs/tomcat/lib
Using CATALINA_OPTS : -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/local/obs/
work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1 -Djavax.servle
t.context.tempdir=/usr/local/obs/work
-----
Starting OBSR service
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Starting AhsayOBSR service". If this occurs, please press the space bar to complete the install

Once the service has been started, it would be possible to connect to the web console for AhsayOBSR via a web browser.

To shutdown AhsayOBSR, please run the following command:

```
# /usr/local/etc/rc.d/obsr stop
```

After running the command, an output similar to the example shown below would be provide to show that the service has been stopped.

```
Shut down [ Ahsay Offsite Backup Server and Replication Server ]
[ Ahsay Offsite Backup Server and Replication Server ] is stopped
Free8# -----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name   : root
Using SYSTEM_TYPE  : bsd
Using SYSTEM_ARCH   : amd64
-----
Using OBSR_HOME     : /usr/local/obs
Using JAVA_HOME     : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT  : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS     : -Djava.net.preferIPv4Stack=true -Djava.library.path=/usr/local
/obs/tomcat/lib -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/local/obs/work -
Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1
Using CATALINA_OPTS : -Djavax.servlet.context.tempdir=/usr/local/obs/work
-----
Stopping OBSR service
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Stopping AhsayOBSR service". If this occurs, please press the space bar to complete the install

3.4 Solaris

The following steps provide a guide to installing AhsayOBSR on a Linux or Solaris platform.

Note: For installation on Solaris, AhsayOBSR would be set to use Solaris native Java.

Installation

1. Logon as root user in the Linux/Solaris machine
2. Download AhsayOBSR (Linux Version) from our [website](#).
3. Install the "SUNWgtar" package from the Solaris Installation Media which contain the GNU tar util.
4. Please define the directory you would like to install AhsayOBSR by setting the AhsayOBSR_HOME environment variable. For example, to install AhsayOBSR to `/usr/local/obs`, please do the followings:

```
# OBS_HOME=/usr/local/obs;export OBS_HOME
```

5. Copy the installation file, `obsr-nix.tar.gz` to `$AhsayOBSR_HOME` and untar it.

```
# mkdir $OBS_HOME
# cp obsr-nix.tar.gz $OBS_HOME
# cd $OBS_HOME
# gtar -zxf obsr-nix.tar.gz
```

Once the untar process has completed, please check that the directory listing is similar to the image below.

```
drwxr-xr-x 14 root root 4096 Mar  4 14:19 .
drwxr-xr-x 14 root root 4096 Mar  4 14:03 ..
drwxr-xr-x  2 root root 4096 Mar  4 14:15 bin
drwxr-xr-x  2 root root 4096 Mar  4 14:15 conf
drwxr-xr-x  7 root root 4096 Mar  4 14:15 java-linux-x64
drwxr-xr-x  7 root root 4096 Mar  4 14:16 java-linux-x86
drwxr-xr-x  2 root root 4096 Mar  4 14:16 licenses
drwxr-xr-x  2 root root 4096 Mar  4 14:16 logs
-rwxr-xr-x  1 root root  195 Apr  4 2007 README.txt
drwxr-xr-x  3 root root 4096 Mar  4 14:16 system
drwxr-xr-x  2 root root 4096 Mar  4 14:16 temp
drwxr-xr-x  2 root root 4096 Mar  4 14:16 termsofuse
drwxr-xr-x  7 root root 4096 Mar  4 14:16 tomcat
drwxr-xr-x  4 root root 4096 Mar  4 14:16 util
-rwxr-xr-x  1 root root    7 Jan 19 11:09 version.txt
drwxr-xr-x  5 root root 4096 Mar  4 14:17 webapps
```

- Please remove bundled Linux Java 2 1.6.0 Runtime Environment from AhsayOBSR:

```
# rm -rf $OBS_HOME/java-linux-x64
# rm -rf $OBS_HOME/java-linux-x86
```

- Create a symbolic link from \$AhsayOBSR_HOME to \$JAVA_HOME:

```
# ln -s /usr/java /usr/local/obs/java
```

- Install and startup the OBS service by the following command:

```
# /usr/local/obs/bin/install.sh
```

After executing the command, you should see the following output.

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

Start configuration on Generic Linux Platform (Linux)
Using OBSR_HOME /usr/local/obs
JVM is verified for installation!
Minimum supported JVM version: 1.5
Current JVM version is supported for installation.
Installing [ Ahsay Offsite Backup Server and Replication Server ]
[ Ahsay Offsite Backup Server and Replication Server ] Service Script created at /usr/local/obs/bin/obsr
Install Service for NIX type OS
Using init script path /etc/init.d
Using run level script path /etc/rc.d
Copying script obsr to /etc/init.d
Creating symbolic link to run levels
You may start this service by:

sh "/etc/init.d/obsr" start &

[ Ahsay Offsite Backup Server and Replication Server ] setup completed!
Starting [ Ahsay Offsite Backup Server and Replication Server ]
Started [ Ahsay Offsite Backup Server and Replication Server ]
[root@Fed01 obs]# -----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name      : root
Using SYSTEM_TYPE     : linux
Using SYSTEM_ARCH     : i686
Using PHYSICAL_MEM    : 1000 (MB)
Using SYSTEM_RESV     : 256 (MB)
-----
Using OBSR_HOME       : /usr/local/obs
Using JAVA_HOME       : /usr/local/obs/java
Using CATALINA_HOME   : /usr/local/obs/tomcat
Using CATALINA_OUT    : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS       : -Xs128k -Xms747m -Xmx747m -Xrs -XX:+UseConcMarkSweepGC -XX:+UseParNewGC -XX:NewRatio=4 -XX:SurvivorRatio=8 -XX:PermSize=128m -Dsun.net.inetaddr.ttl=3600 -Dnetworkaddress.cache.ttl=3600 -Dsun.net.inetaddr.negative.ttl=300 -Dnetworkaddress.cache.negative.ttl=300 -Djava.net.preferIPv4stack=true -Djava.library.path=/usr/local/obs/tomcat/lib
Using CATALINA_OPTS   : -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/local/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1 -Djavax.servlet.context.tempdir=/usr/local/obs/work
-----
Starting OBSR service
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Starting AhsayOBSR service". If this occurs, please press the space bar to complete the install.

- AhsayOBSR should be started automatically. To verify that, please point the web browser to <http://<your-backup-server>/>. For more information, please refer to the Quick Start Section in [OBS Administrator's Guide](#).

Startup/Shutdown AhsayOBSR

If required, it is possible to stop and restart your AhsayOBSR service, with the commands shown below.

To startup AhsayOBSR, please run the following command:

```
# /etc/init.d/obsr start
```

After running the command, the following output should appear to advise that the service has started.

```
Starting up [ Ahsay Offsite Backup Server and Replication Server ]
-----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name      : root
Using SYSTEM_TYPE     : linux
Using SYSTEM_ARCH     : i686
Using PHYSICAL_MEM    : 1003 (MB)
Using SYSTEM_RESV     : 256 (MB)
-----
Using OBSR_HOME       : /usr/local/obs
Using JAVA_HOME       : /usr/local/obs/java
Using CATALINA_HOME   : /usr/local/obs/tomcat
Using CATALINA_OUT    : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS       : -Xss128k -Xms747m -Xmx747m -Xrs -XX:+UseConcMarkSweepGC -X
X:+UseParNewGC -XX:NewRatio=4 -XX:SurvivorRatio=6 -XX:PermSize=128m -Dsun.net.in
etaddr.ttl=3600 -Dnetworkaddress.cache.ttl=3600 -Dsun.net.inetaddr.negative.ttl=
300 -Dnetworkaddress.cache.negative.ttl=300 -Djava.net.preferIPv4Stack=true -Dja
va.library.path=/usr/local/obs/tomcat/lib
Using CATALINA_OPTS   : -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/loca
l/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1 -D
javax.servlet.context.tempdir=/usr/local/obs/work
-----
Starting OBSR service
[ Ahsay Offsite Backup Server and Replication Server ] is running
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Starting AhsayOBSR service". If this occurs, please press the space bar to complete the install

Once the service has been started, it would be possible to connect to the web console for AhsayOBSR via a web browser.

To shutdown AhsayOBSR, please run the following command:

```
# /etc/init.d/obsr stop
```

When shutting the system down, the following output should appear to advise that the service has been stopped.

```
Shutting down [ Ahsay Offsite Backup Server and Replication Server ]
-----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name   : root
Using SYSTEM_TYPE  : linux
Using SYSTEM_ARCH   : i686
-----
Using OBSR_HOME     : /usr/local/obs
Using JAVA_HOME     : /usr/local/obs/java
Using CATALINA_HOME : /usr/local/obs/tomcat
Using CATALINA_OUT  : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS     : -Djava.net.preferIPv4Stack=true -Djava.library.path=/usr
/local/obs/tomcat/lib -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/loca
l/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluster.server.name=inst1
Using CATALINA_OPTS : -Djavax.servlet.context.tempdir=/usr/local/obs/work
Stopping OBSR service
[ Ahsay Offsite Backup Server and Replication Server ] is stopped
```

Note: It has been found on some systems that the installation may appear to pause after displaying "Stopping AhsayOBSR service". If this occurs, please press the space bar to complete the install

4 Uninstall

This section outlines all the steps required to uninstall AhsayOBSR from the system.

4.1 Windows

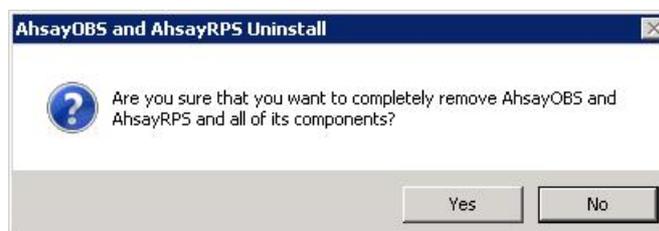
For Windows platform, there are 2 methods to perform the uninstall of AhsayOBSR. If the installation was performed using the installer (obsr-win.exe file) then it is recommended to use Method 1 to perform the install. If the patch file was used for the installation, please use Method 2 for the uninstall.

Method 1 – Auto Uninstallation

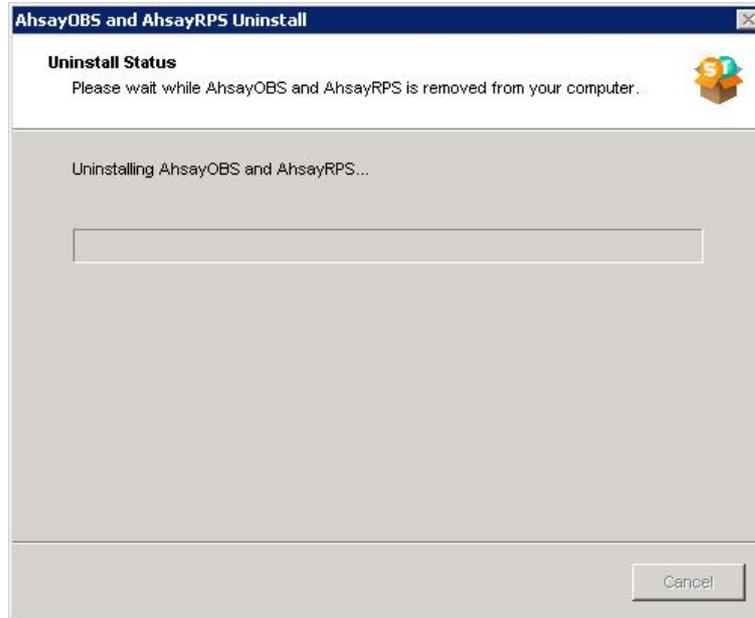
1. Go to [Start Menu] -> [Programs] -> [AhsayOBSR] -> [Uninstall].



2. The uninstall wizard will be shown on the screen



3. Click [Yes] to start uninstalling AhsayOBSR.



4. Once the uninstall has completed, the system would show the following dialog box. Please click on the [OK] to continue.



The system would automatically open a window to the installation path, so that the USER_HOME, SYSTEM_HOME and POLICY_HOME can be copied/backed up if required.

5. AhsayOBSR is now removed from your system.

Method 2 – Manual Uninstallation

1. Open command prompt and change the working directory to %AhsayOBSR_HOME%\util\bin

```
cd "c:\Program Files\AhsayOBS & AhsayRPS\util\bin"
```

2. Run the following command within the command prompt would remove the service for AhsayOBSR:

```
service.exe -r <Service Name>
```

Where:

- Parameter "-r" means removing the service and parameter.
- <Service Name> - is the name of the service.

For example, in our case, we should run the following command:



```
Administrator: Command Prompt
c:\Program Files\AhsayOBS and AhsayRPS\util\bin>service -r OBSRServer
```

A message of "AhsayOBSRServer removed" as shown below will be displayed on the screen to advise that the uninstall of the service has been successful. .



```
Administrator: Command Prompt
Start to remove OBSRServer
OBSRServer removed.
```

3. Backup the files that you would like to keep, e.g. USER_HOME, SYSTEM_HOME and POLICY_HOME.
4. Remove the %AhsayOBSR_HOME% directory if necessary and AhsayOBSR is now removed from your system.

4.2 Linux/Solaris/FreeBSD

To uninstall AhsayOBSR from a Linux, Solaris or FreeBSD system, please follow the steps below.

1. Logon as root to the Linux/Solaris/FreeBSD machine.
2. Move to the \$AhsayOBSR_HOME directory and run the uninstall script using the command shown below.

```
cd /usr/local/obs
sh ./bin/uninstall.sh
```

The following output would appear after running the script. The script would stop AhsayOBSR service and also remove the startup script so that the service will not start at boot up.

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

Using OBSR_HOME: /usr/local/obs
Using JAVA_HOME: /usr/local/obs/java
Try to shutdown [ Ahsay Offsite Backup Server and Replication Server ]
-----
You may set SYSTEM_DEBUG=0 to disable the debug message
-----
Current User Name      : root
Using SYSTEM_TYPE     : linux
Using SYSTEM_ARCH     : i686
-----
Using OBSR_HOME       : /usr/local/obs
Using JAVA_HOME       : /usr/local/obs/java
Using CATALINA_HOME   : /usr/local/obs/tomcat
Using CATALINA_OUT    : /usr/local/obs/logs/catalina.out
Using JAVA_OPTS       : -Djava.net.preferIPv4Stack=true -Djava.library.path=/usr
/local/obs/tomcat/lib -Dtc.log.path=/usr/local/obs/logs -Dtc.work.path=/usr/loca
l/obs/work -Dtc.obs.conf.path=/usr/local/obs/conf -Dcluser.server.name=inst1
Using CATALINA_OPTS   : -Djavax.servlet.context.tempdir=/usr/local/obs/work
-----
Stopping OBSR service
Wait 5 seconds before [ Ahsay Offsite Backup Server and Replication Server ] is
down
Remove [ Ahsay Offsite Backup Server and Replication Server ] (obsr) from servic
e
Uninstall Service for NIX type OS
Using init script path /etc/init.d
Using run level script path /etc/rc.d
Removing symbolic link from run levels
Removing script file obsr from /etc/init.d
[ Ahsay Offsite Backup Server and Replication Server ] uninstall service is comp
lete!
It is now safe to remove files from /usr/local/obs
```

3. Make a backup of your existing \$SYSTEM_HOME, \$USER_HOME and \$POLICY_HOME directories to another computer if necessary.
4. Remove the \$AhsayOBSR_HOME directory from the system. Once done, AhsayOBSR will now be removed from your system.



Further Information

If you need further assistance, please submit your questions to our support team via our [forum](#).



Appendix

Appendix A Product Documentations

Please visit this [link](#) for the documentations of Ahsay Products.