

Yosemite Server Backup Installation Guide

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Before you begin

Customer Support

Phone and Email Technical Support offered 24 x 7. Basic Support includes email and live chat support 24x7 and phone support between the hours of 9am and 5pm Monday through Friday in the USA (Pacific time zone). Enhanced Support provides 24x7 phone support. You can get customer support for Yosemite Server Backup in one of the following ways:

- Visit our website at <http://www.barracudaware.com>
- Phone us at +1 408 342 5300.
- Email us at support@barracuda.com.

Release Notes

Release notes are included with every release and service pack. Before using Yosemite Server Backup, please read the release notes for additional information. The release notes are available in HTML format in the root directory of the Yosemite Server Backup CD-ROM.

Document Conventions and Symbols

Convention	Element
Blue text: Document Conventions and Symbols	Cross-reference links and e-mail addresses
Blue, underlined text: http://www.website.com	Website addresses
Bold text	<ul style="list-style-type: none">• Keys that are pressed• Text typed into a GUI element, such as a box• GUI elements that are clicked or selected, such as menu and list items, buttons, tabs, and check boxes
<i>Italic</i> text	Text emphasis
Monospace text	<ul style="list-style-type: none">• File and directory names• System output• Code• Commands, their arguments, and argument values
<i>Monospace, italic</i> text	<ul style="list-style-type: none">• Code variables• Command variables

WARNING!

Indicates that failure to follow directions could result in data loss.

 **CAUTION:**

Indicates that failure to follow directions could result in damage to equipment or data.

 **IMPORTANT:**

Provides clarifying information or specific instructions.

 **NOTE:**

Provides additional information.

 **TIP:**

Provides helpful hints and shortcuts.

1 Installation Overview

In this chapter

- System Requirements
- Supported platforms
- Before You Install Yosemite Server Backup
- Installing Yosemite Server Backup
- Upgrading Yosemite Server Backup

System Requirements

Most operating systems list both minimum and recommended system requirements. As a general rule, if your system meets the minimum requirements for the operating system, it will also meet the minimum system requirements for Yosemite Server Backup.

Depending on your specific requirements, your system should also meet the following:

- The Yosemite Server Backup Catalog requires additional space. When you install Yosemite Server Backup on the machine that will serve as the Domain Server, Barracuda Networks, Inc. recommends that you select a hard drive other than the default drive. A disk drive with at least an additional 20 GB is recommended.
- VGA display with 1024x768 resolution, for use with Windows or an X Window System
- CD drive for Yosemite Server Backup installation (recommended)
- CD or DVD writer for use with the Yosemite Server Backup Bare Metal Disaster Recovery (recommended)
- Bootable tape backup device for use with Yosemite Server Backup Bare Metal Disaster Recovery (optional)

Supported platforms

Yosemite Server Backup is supported and has been tested with many different versions of Windows and Linux operating systems. For a current list of supported platforms, visit <http://www.barracudaware.com>.

NOTE:

We always recommend that you install the latest service packs and updates for your operating system.

Before You Install Yosemite Server Backup

Even though Yosemite Server Backup is easy to install, you must first make some important decisions about how to implement Yosemite Server Backup. Before you install Yosemite Server Backup, you should consider the following subjects.

Yosemite Server Backup Backup Domain

When you install Yosemite Server Backup, you will define a Yosemite Server Backup Backup Domain. Each Backup Domain includes one Domain Server — a computer that contains the Yosemite Server Backup catalog. Each Yosemite Server Backup Domain Server may also include other computers, including Media Servers and clients.

On a very small Backup Domain, all three components (Domain Server, Media Server, and client) can be on the same machine.

Since Yosemite Server Backup is scalable, you can easily upgrade your license whenever you need to expand the Yosemite Server Backup Backup Domain.

To define the Backup Domain, identify:

- The computer that will be the Domain Server.
- The Media Servers that will belong to the Domain Server.
- The clients that will belong to the Backup Domain.

Yosemite Server Backup Service

The Yosemite Server Backup service lets you run scheduled jobs automatically, whether or not an operator is present. The Yosemite Server Backup service is called a service on Windows and a daemon on Linux systems.

When installed, the Yosemite Server Backup service automatically loads at system startup. It runs in the background *without a user interface*. At any time, you can start the Yosemite Server Backup user interface. Later, when you close the Yosemite Server Backup user interface, the Yosemite Server Backup service continues to run in the background.

If the system loses power, the Yosemite Server Backup service automatically restarts following system restart. Therefore, your backup jobs still run as scheduled.

You must install Yosemite Server Backup on each computer that will be included in an automatic backup schedule.

Installing Yosemite Server Backup

1. Install all of your backup devices according to the manufacturer's directions
2. Install Yosemite Server Backup on the Domain Server machine.
3. Install Yosemite Server Backup on the remaining Media Servers and clients in the Backup Domain. Supply the hostname or IP address of the Domain Server when installing the clients.

Upgrading Yosemite Server Backup

1. Upgrade Yosemite Server Backup on the Domain Server.
2. Each client in the Backup Domain will upgrade itself automatically.

 **NOTE:**

There is a Backup Domain configuration setting to disable automatic updates that is on by default. If you turn this option off you will need to manually update each client. Clients running older versions of Yosemite Server Backup will not operate with a Domain Server running a newer version.

2 Installing Yosemite Server Backup

In this chapter

- Launching the Installer
- Using the Yosemite Server Backup Installer

Launching the Installer

On Windows

You must have Administrator access to install Yosemite Server Backup.

1. Insert the Yosemite Server Backup CD-ROM in your CD drive. The Yosemite Server Backup Installer launches automatically.
2. If it does not launch automatically, access the root directory on the Yosemite Server Backup CD-ROM and double-click **setup.exe**.

On Linux

You must install Yosemite Server Backup as the root user.

1. Insert the Yosemite Server Backup CD-ROM.
2. If auto-mount is not enabled on your system, you must mount the CD-ROM yourself. Refer to the following example for some Linux systems:
 - a. Access a terminal window.
 - b. Type
`mount /dev/cdrom /mnt/cdrom`
and press **Enter**.
 - c. Wait a moment for Linux to mount the CD-ROM.
3. Access the root directory on the CD-ROM. For example, on some Linux systems, type
`cd /mnt/cdrom`
and press **Enter** to access the root directory on the installation CD-ROM.



NOTE:

If Yosemite Server Backup is running, you must close it before continuing.

4. To run the installation program, type
`./install`
as the root user and press **Enter**.

Using the Yosemite Server Backup Installer

Installing

To install Yosemite Server Backup:

1. Launch the installer.
2. Select a language.
3. Read and accept the End User Licence Agreement.
4. Decide whether this machine will be the Domain Server or a client of the Backup Domain and select the appropriate radio button.

If this is the Backup Domain, click the **Next** button.

If this is a client, enter the hostname or IP address of the Domain Server already installed and click the **Next** button.

Optionally, you may change location of the install folder prior to leaving the page.

5. Installation will proceed. Progress is reported on the screen. On the Domain Server, once installation is complete the Administrator will launch automatically. You may see a flashing red **Alert** button in the bottom right corner of the Administrator. If you do, see Licenses to install a license key. Or you can continue to use the product in evaluation mode.

Upgrading

NOTE:

You do not have to uninstall Yosemite Server Backup before upgrading to a newer version. However, the previous version of Yosemite Server Backup and the previous catalog will be updated to the new format, and will no longer be available in the old format.

To upgrade Yosemite Server Backup:

1. Launch the installer.
2. Select **Upgrade** Yosemite Server Backup.
3. Read and accept the End User License Agreement.
4. Installation will proceed. Progress is reported on the screen. Once complete the Administrator will launch automatically.

Removing

To remove Yosemite Server Backup:

1. Launch the Yosemite Server Backup installer.
2. Select **Remove** Yosemite Server Backup.
3. If you want to retain your catalog or your data backed up to disk, deselect the appropriate checkboxes before clicking the **Next** button. If you leave these items intact they can be reused in a different installation.
4. Confirm that you want to remove Yosemite Server Backup.
5. Yosemite Server Backup will be removed from your system. Any files that cannot be removed during the uninstall process will be removed during the next reboot. You do not need to reboot immediately.

3 Post Installation Settings

In this chapter

- Passwords
- Licenses

After you install Yosemite Server Backup, you can restrict access to it by setting a password or obtain access to additional options by adding licenses.

Passwords

When you start Yosemite Server Backup, it has no password for the Admin user, which has access to all data inside the Yosemite Server Backup Backup Domain.

To set a password for the Admin user

1. Start the Administrator.
2. Select **File** → > **Domain Configuration** menu item.
3. Click the **Domain Security** link in the Navigation bar.
4. Select the **Enable advanced domain security** option and click **OK**.
5. Expand the **Advanced** link in the **Navigation** bar in the top left corner of the screen and click the **Security** link.
6. Select the **Admin** icon in the main part of the screen and click the **Change Password** command in the command toolbar.
7. Leave the old password blank and enter a new password. Click **OK**.

Licenses

When you purchase Yosemite Server Backup, you purchase one base license for each Yosemite Server Backup Backup Domain. The base license includes the Yosemite Server Backup catalog and one or more client or server machines, depending on the type of license. You can also purchase licenses for additional clients.

Yosemite Server Backup uses a system of key codes that represent your licenses to use all Yosemite Server Backup features as well as its options. When you purchase and install Yosemite Server Backup key codes, you can use Yosemite Server Backup and all licensed options with no expiration date. When you install Yosemite Server Backup as an evaluation, all optional features are installed that are supported by the base license. You can use these features during a 60-day evaluation period. To continue using these features after the evaluation period has expired, you must purchase a license for them. When you enter a license key code, the applicable features or options are changed from evaluation to permanent licenses.

For reference, each license key has a type and serial number, which is assigned to your order.

You can see all attributes of a license key in the License window.

To enter a new key code

1. Start Yosemite Server Backup Administrator.
2. Click on the **Licenses** icon in the main screen or select the **Licenses** command from the **Help** menu.
3. Select the command **New** to add a new license.
4. Enter the key code for the license and click **OK**.

A new license object is created, which is listed as a new item in the **License** window.

5. To see a summary of all installed licenses deselect any licenses and select the **Status** command to open the **Properties of Licenses** window.

4 Installation Notes

Linux Installation Notes

SCSI generic module required for device support

If you are running Yosemite Server Backup under Linux, you must install the `sg` (SCSI generic) module for device support in Yosemite Server Backup.

To verify that this module is loaded and running, issue the following command at a terminal prompt:

```
lsmod
```

`sg` should be listed in the list of running modules. If it is not listed, you must manually load this module so that Yosemite Server Backup can communicate with tape devices. Consult your operating system documentation for instructions on manually loading the `sg` module.

Red Hat Enterprise Linux EXT3 hardware issue

If you are running Yosemite Server Backup on Red Hat Enterprise Linux (RHEL) v3 or v4, a known hardware issue exists when you use the EXT3 journal or file system on certain hardware configurations. Update your Red Hat Enterprise Linux v3 or v4 installation to the latest kernel and `jbd` patches listed below to resolve this issue:

- `jbd-1.1-multiarch-1`
- `kernel-2.6.9-11.EL` (RHEL 4)
- `kernel-2.4.21-37.EL` (RHEL 3)

IDE/ATAPI Support

Yosemite Server Backup supports the use of IDE/ATAPI tape devices. If your Linux distribution compiled the `ide-tape.o` module into the kernel, update the configuration file and verify the configuration to access these devices.



NOTE:

When Yosemite Server Backup runs, it loads the `ide-scsi` module. This may cause the `ide-cdrom` module to fail to load, which may affect CD operation. To work around this problem, mount the CD as a SCSI device, even though it is an IDE device.

To update the configuration file and verify the configuration (LILO)

1. Add the following line to the end of each boot selection section in the `/etc/lilo.conf` file:

Master on primary IDE	<code>append="hda=ide-scsi"</code>
Slave on primary IDE	<code>append="hdb=ide-scsi"</code>
Master on secondary IDE	<code>append="hdc=ide-scsi"</code>
Slave on secondary IDE	<code>append="hdd=ide-scsi"</code>

- Update your system configuration, using the following command:

```
lilo
```

- Save the file and reboot your system.
- Verify that the change has been implemented, using the following command:

```
cat /proc/cmdline
```

- If `hda=ide-scsi` (or similar) does not appear, you did not update the configuration file correctly. Start over with Step 1 above.
- Verify that your system detects the tape device, using the following command:

```
cat /proc/scsi/scsi
```

To update the configuration file and verify the configuration (GRUB)

- Locate the `grub.conf` file. This file may also be called `menu.lst`. Possible locations include `/boot/grub` and `/etc`.
- Add the appropriate text from the following to the end of each kernel image line in the `grub.conf` file:

Master on primary IDE	<code>hda=ide-scsi</code>
Slave on primary IDE	<code>hdb=ide-scsi</code>
Master on secondary IDE	<code>hdc=ide-scsi</code>
Slave on secondary IDE	<code>hdd=ide-scsi</code>

Each kernel image line will read similar to the following:

```
kernel /vmlinuz-2.2.6-2 ro root=/dev/hda3 hda=ide-scsi
```

- Save the file and reboot your system.
- Verify that the change has been implemented, using the following command:

```
cat /proc/cmdline
```

5. If `hda=ide-scsi` (or similar) does not appear, you did not update the configuration file correctly. Start over with step 1 above.
6. Verify that your system detects the tape device, using the following command:

```
cat /proc/scsi/scsi
```

Libraries missing from Linux distribution

Problem:

I cannot launch the X Window System version of Yosemite Server Backup. It gives me the following message:
error while loading shared libraries libstdc++.so.5

Cause: Either the `libstdc++` library is missing from your version of Linux distribution or the wrong version of the library is installed.

Solution: Install the missing library.

1. Identify the required version of the library:
 - a. Navigate to the Yosemite Server Backup directory in a terminal window. The default directory is `/usr/local/barracuda/yosemiteserverbackup`.
 - b. Type `lld ytadmin.bin` from the command prompt and press **Enter**. A list of libraries required for Yosemite Server Backup appears.

The name of the missing `libstdc++` library will be similar to `libstdc++.so.5`.

2. Contact your Linux distributor for the missing library.

NOTE:

If you are using RedHat Linux EL 4, you can use an RPM package called "`compat-libstdc++.rpm`" to install the necessary library.

3. Install the library according to the documentation provided by your distributor.
4. Try to launch the X Window System version of Yosemite Server Backup. It should work properly.

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