

# Veritas™ System Recovery 16 Linux Edition

Quick Installation Guide

**VERITAS™**

# Installing Veritas System Recovery 16 Linux Edition

This document includes the following topics:

- [About Veritas System Recovery 16 Linux Edition](#)
- [Before you install](#)
- [About upgrading to Veritas System Recovery 16 Linux Edition](#)
- [Installing Veritas System Recovery 16 Linux Edition](#)

## About Veritas System Recovery 16 Linux Edition

Veritas System Recovery 16 Linux Edition lets you recover from system loss or disasters in minutes, not hours, or days. It provides fast, easy to use system restoration to help you meet your recovery time objectives. Veritas System Recovery 16 Linux Edition lets you capture recovery points of all the partitions and volumes on a live Linux system. The recovery points can include partitions and volumes containing the operating system (OS), applications, system settings, configurations, files, and data.

When you experience a problem with your computer, you can restore a file system partition or an entire drive. This recovery process returns your computer to a previous, functional state with the operating system, applications, and data files intact.

Using Veritas System Recovery 16 Linux Edition you can do the following:

- Perform backups (create recovery points) of partitions and volumes on your Linux system.
- Restore volumes and partitions using the recovery points you have created.

- Create a Veritas Recovery Disk that you can use to recover your computer if it does not start.
- Mount recovery points so you can restore individual files and folders.

## Before you install

Installation procedures might vary depending on your work environment and the type of Linux you use. This chapter focuses on installing Veritas System Recovery 16 Linux Edition from a download.

Before you install Veritas System Recovery 16 Linux Edition, ensure that your computer meets the system requirements. Review the Readme file for any known issues.

See “[System requirements](#)” on page 3.

See “[About supported file systems and removable media](#)” on page 5.

See “[Installing Veritas System Recovery 16 Linux Edition](#)” on page 7.

## System requirements

The following table lists the system requirements for Veritas System Recovery 16 Linux Edition to function properly.

**Table 1-1** Minimum system requirements

Component	Minimum requirements
Operating system	<p>You can find a list of compatible operating systems, platforms, and applications at the following URL:</p> <p><a href="https://www.veritas.com/support/en_US/search-results.html?keyword=V-306-17">https://www.veritas.com/support/en_US/search-results.html?keyword=V-306-17</a></p> <p><b>Note:</b> SUSE Linux Enterprise Desktop and Red Hat Enterprise Linux Desktop are not supported.</p> <p>All standard kernel versions are supported for the Linux distributions that are listed.</p> <p>The binary drivers are already included for all standard kernels that are supported for the listed Linux distributions.</p> <p>For custom kernels (recompiled kernels), the installer builds and installs the custom snap driver for the running custom kernel during installation. The system must have the custom kernel headers installed.</p>

**Table 1-1** Minimum system requirements (*continued*)

Component	Minimum requirements
RAM	<p>The following are the memory requirements for SUSE Linux, Red Hat Linux, and the CentOS Linux:</p> <ul style="list-style-type: none"> <li>■ SUSE Linux: 1 GB</li> <li>■ Red Hat Linux: 1 GB</li> <li>■ CentOS Linux: 1 GB</li> </ul>
Available hard disk space	<p>The Veritas System Recovery 16 Linux Edition installation requires 50 MB of free disk space. To install and use the option for extracting and creating a Veritas Recovery Disk, you should have at least 200 MB of disk space.</p> <p>You should have sufficient hard disk space on a local hard disk or network server for storing recovery points.</p> <p>Be aware that the file sizes of resulting recovery points depend on the amount of data that you intend to back up.</p>
DVD-ROM drive	<p>The drive can be any speed, but it must be capable of being used as the startup drive from the BIOS.</p>
Software	<p>Other required software:</p> <ul style="list-style-type: none"> <li>■ The Granular File Recovery option (mount.v2i utility) uses libfuse. Currently, only Fuse 2.7.x is supported. Other versions of Fuse are not supported, but may work.</li> <li>■ createSRD uses the squashfs-tools package on RHEL for creating RHEL Veritas Recovery Disks. You must install the required squashfs-tools package on RHEL 5.x and squashfs-tools and genisoimage packages on RHEL 6.x.</li> </ul>

See [“Installing Veritas System Recovery 16 Linux Edition”](#) on page 7.

See [“About supported file systems and removable media ”](#) on page 5.

## Installing Fuse

The Fuse driver and libfuse must be installed before you use the Veritas System Recovery 16 Linux Edition recovery point mount utility. On SUSE Linux and RHEL 6.x, the Fuse driver is installed by default, but, the Fuse library (libfuse) must be installed. On Red Hat 5.x Linux, both, the Fuse driver and the Fuse library must be installed.

You can install the Fuse driver and libfuse from the RPM repository. You can also install Fuse from a downloaded .tar file.

**To download and install the Fuse .tar file**

- 1 Log on as root.
- 2 Download Fuse 2.7.x from <http://fuse.sourceforge.net>.
- 3 Extract the .tar.gz file.
- 4 Change the directory to the Fuse extracted folder.
- 5 Run the following commands in the order indicated.

```
./configure
```

```
make
```

```
make install
```

- 6 Check /etc/ld.so.conf using a text editor (for example, run `vi /etc/ld.so.conf` ). Look for a line containing '/usr/local/lib'. If it is missing, you must add it.

- 7 Run ldconfig command

```
ldconfig
```

SUSE requires only the installation of the libfuse rpm libraries. Red Hat requires both the libfuse rpm library and the fuse module.

See “[Installing Veritas System Recovery 16 Linux Edition](#)” on page 7.

See “[System requirements](#)” on page 3.

## About supported file systems and removable media

Veritas System Recovery 16 Linux Edition supports the following file systems and removable media:

Supported file systems	<p>Veritas System Recovery 16 Linux Edition supports the following file systems:</p> <ul style="list-style-type: none"><li>■ ReiserFS version 3</li><li>■ EXT2</li><li>■ EXT3</li><li>■ EXT4</li><li>■ FAT16 with 2-GB limit</li><li>■ FAT32</li><li>■ XFS</li></ul> <p><b>Note:</b> Veritas System Recovery 16 Linux Edition only supports the listed file systems. Other file systems such as Btrfs, JFS, NSS, and Reiser4 are not supported.</p>
Supported platforms	<p>Veritas System Recovery 16 Linux Edition supports the following new platforms:</p> <ul style="list-style-type: none"><li>■ RHEL 6.6</li><li>■ RHEL 6.7</li><li>■ RHEL 6.8</li><li>■ RHEL 7.0</li><li>■ RHEL 7.1</li><li>■ RHEL 7.2</li><li>■ RHEL 7.3</li><li>■ CentOS 6.6</li><li>■ CentOS 6.7</li><li>■ CentOS 6.8</li><li>■ CentOS 7.0</li><li>■ CentOS 7.1</li><li>■ CentOS 7.2</li><li>■ CentOS 7.3</li><li>■ SUSE Linux Enterprise Server 11 SP4</li><li>■ SUSE Linux Enterprise Server 12.0</li><li>■ SUSE Linux Enterprise Server 12.1</li><li>■ SUSE Linux Enterprise Server 12.2</li></ul>
Removable media	<p>Backing up is not supported to some types of removable media in Veritas System Recovery 16 Linux Edition. You must save recovery points to a local mount point.</p>

See [“Before you install”](#) on page 3.

See [“Installing Veritas System Recovery 16 Linux Edition”](#) on page 7.

## When you delay licensing

If you choose to delay installation of the license key, all features in Veritas System Recovery 16 Linux Edition remain enabled during a 60-day trial period.

Veritas Recovery Disk (SRD), a component of Veritas System Recovery 16 Linux Edition, is available with no trial period. However, you need a valid license key to use the back up feature in Veritas Recovery Disk. If you have created the Veritas Recovery Disk on a computer having licensed version of Veritas System Recovery 16 Linux Edition, the Veritas Recovery Disk is automatically licensed. In such cases, you can perform cold backups using the Veritas Recovery Disk without the need of adding a license key.

You can purchase a license key and activate the software at any time (even after the trial period expires) without the need to reinstall. To activate Veritas System Recovery 16 Linux Edition before or after the trial period, you can use the following command:

```
#symsr -addlicense <license key>
```

See [“Installing Veritas System Recovery 16 Linux Edition”](#) on page 7.

## About upgrading to Veritas System Recovery 16 Linux Edition

You can upgrade Symantec System Recovery 2011, 2013, or 2013 R2 Linux Edition to Veritas System Recovery 16 Linux Edition. When you upgrade, the installation program automatically uninstalls the previous version of Veritas System Recovery Linux Edition from your computer. However, all the configurations, policies, tasks, and recovery points are preserved.

To upgrade to Veritas System Recovery 16 Linux Edition, install 16 Edition on your computer.

See [“Installing Veritas System Recovery 16 Linux Edition”](#) on page 7.

## Installing Veritas System Recovery 16 Linux Edition

Before you begin, you should review the requirements and scenarios for installing Veritas System Recovery 16 Linux Edition.

Root privileges are required to install the Veritas\_System\_Recovery.bin.

## To install Veritas System Recovery 16 Linux Edition

- 1 Log on to your computer as the root user.
- 2 Copy the `Veritas_System_Recovery.bin` file from the download or the product DVD to a folder on your Linux computer.
- 3 Make the `Veritas_System_Recovery.bin` file an executable by changing to the directory where you copied it and entering the following command at the Linux console:

```
chmod +x Veritas_System_Recovery.bin
```

- 4 Start the installation process by entering the following command at the Linux terminal:

```
./Veritas_System_Recovery.bin
```

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**Note:** The command that you specified assumes that you are currently in the same directory where the `Veritas_System_Recovery.bin` file is located. If that is not the case, you must either change to that folder or specify the proper path to it.

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- 5 Page through the license agreement and accept it by entering a `y` or `yes` at the prompt.
- 6 If you want to install the utility for creating a Veritas Recovery Disk, type a `y` or `yes` at the install Veritas Recovery Disk creation utility prompt.
- 7 If you want to install the Granular File Recovery utility for mounting a recovery point, type a `y` or `yes` at the install Granular File Recovery utility prompt.

`createSRD` is a command line utility for creating a Veritas Recovery Disk CD. A Veritas Recovery Disk CD is not included with Veritas System Recovery 16 Linux Edition. You must create the CD manually using the `createSRD` utility.

Veritas System Recovery 16 Linux Edition includes command line utilities for mounting or unmounting a recovery point so you can restore individual files and folders.

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**Note:** If you choose not to install the utilities you can run the installation process later. The installation program automatically detects that Veritas System Recovery 16 Linux Edition is installed and prompts you to install the utilities that are not installed.

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See [“When you delay licensing”](#) on page 7.