

# Symantec™ System Recovery 2013 R2 Linux Edition

## Quick Installation Guide

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# Installing Symantec System Recovery 2013 R2 Linux Edition

This document includes the following topics:

- [About Symantec System Recovery 2013 R2 Linux Edition](#)
- [Before you install](#)
- [About upgrading to Symantec System Recovery 2013 R2 Linux Edition](#)
- [Installing Symantec System Recovery 2013 R2 Linux Edition](#)

## About Symantec System Recovery 2013 R2 Linux Edition

Symantec System Recovery 2013 R2 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. Symantec System Recovery 2013 R2 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 Symantec System Recovery 2013 R2 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 Symantec 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 Symantec System Recovery 2013 R2 Linux Edition from a download.

Before you install Symantec System Recovery 2013 R2 Linux Edition, ensure that your computer meets the system requirements. Review the Readme file for any known issues.

See [“System requirements”](#) on page 4.

See [“About supported file systems and removable media”](#) on page 7.

See [“Installing Symantec System Recovery 2013 R2 Linux Edition”](#) on page 8.

## System requirements

The following table lists the system requirements for Symantec System Recovery 2013 R2 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="http://entsupport.symantec.com/umi/V-306-17">http://entsupport.symantec.com/umi/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>
RAM	<p>The following are the memory requirements for SUSE Linux, Red Hat Linux, and the Symantec Recovery Disk:</p> <ul style="list-style-type: none"><li>■ SUSE Linux: 1 GB</li><li>■ Red Hat Linux: 1 GB</li></ul>
Available hard disk space	<p>The Symantec System Recovery 2013 R2 Linux Edition installation requires 50 MB of free disk space. To install and use the option for extracting and creating a Symantec 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>

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

Component	Minimum requirements
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 Symantec 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 Symantec System Recovery 2013 R2 Linux Edition](#)” on page 8.

See “[About supported file systems and removable media](#)” on page 7.

## Installing Fuse

The Fuse driver and libfuse must be installed before you use the Symantec System Recovery 2013 R2 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 Symantec System Recovery 2013 R2 Linux Edition](#)” on page 8.

See “[System requirements](#)” on page 4.

## About supported file systems and removable media

supports the following file systems and removable media:

Supported file systems supports the following file systems:

- FAT16, FAT16X
- FAT32, FAT32X
- NTFS
- GUID Partition Table (GPT)
- Dynamic disks
- Linux Ext2, Linux Ext3
- Linux swap partitions

**Note:** You must decrypt encrypted NTFS drives before you attempt to restore them. You cannot view the files that are in a recovery point for an encrypted NTFS drive.

Removable media You can save recovery points locally (that is, on the same computer where is installed). Or, you can save recovery points to most Blu-ray, DVD-R(W), DVD+RW, CD-R, and CD-RW recorders. You can find an updated list of supported drives on the Gear Software Web site.

<http://www.gearsoftware.com>

also lets you save recovery points to most USB devices, 1394 FireWire devices, REV, Jaz, Zip drives, and magneto-optical devices.

## When you delay licensing

If you choose to delay installation of the license key, all features in Symantec System Recovery 2013 R2 Linux Edition remain enabled during a 60-day trial period.

Symantec Recovery Disk (SRD), a component of Symantec System Recovery 2013 R2 Linux Edition, is available with no trial period. However, you need a valid license

key to use the back up feature in SRD. If you have created the SRD on a computer having licensed version of Symantec System Recovery 2013 R2 Linux Edition, the SRD is automatically licensed. In such cases, you can perform cold backups using the SRD 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 Symantec System Recovery 2013 R2 Linux Edition before or after the trial period, you can use the following command:

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

See [“Installing Symantec System Recovery 2013 R2 Linux Edition”](#) on page 8.

## About upgrading to Symantec System Recovery 2013 R2 Linux Edition

You can upgrade Symantec System Recovery 2010 or 2011 Linux Edition to Symantec System Recovery 2013 R2 Linux Edition. When you upgrade, the installation program automatically uninstalls the previous version of Symantec System Recovery Linux Edition from your computer. However, all the configurations, policies, tasks, and recovery points are preserved.

To upgrade to Symantec System Recovery 2013 R2 Linux Edition, install Symantec System Recovery 2013 R2 Edition on your computer.

See [“Installing Symantec System Recovery 2013 R2 Linux Edition”](#) on page 8.

## Installing Symantec System Recovery 2013 R2 Linux Edition

Before you begin, you should review the requirements and scenarios for installing Symantec System Recovery 2013 R2 Linux Edition.

Root privileges are required to install the Symantec `_System_Recovery.bin`.

### To install Symantec System Recovery 2013 R2 Linux Edition

- 1 Log on to your computer as the root user.
- 2 Copy the `_System_Recovery.bin` file from the download or the product DVD to a folder on your Linux computer.



- 3 Make the `Symantec_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 Symantec_System_Recovery.bin
```

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

```
./Symantec_System_Recovery.bin
```

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**Note:** The command that you specified assumes that you are currently in the same directory where the `Symantec_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 Symantec Recovery Disk, type a `y` or `yes` at the install Symantec Recovery Disk creation utility prompt.  
  
createSRD is a command line utility for creating a Symantec Recovery Disk CD. A Symantec Recovery Disk CD is not included with Symantec System Recovery 2013 R2 Linux Edition. You must create the CD manually using the createSRD utility.
- 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.  
  
Symantec System Recovery 2013 R2 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 Symantec System Recovery 2013 R2 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.