

# Storage Foundation and High Availability Solutions Read This First

Linux

5.1 Patch 1



# Read This First

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## Introduction

This document provides information about the Storage Foundation and High Availability Solutions 5.1 Patch 1. Symantec strongly recommends installing the 5.1 Patch 1 immediately after installing Storage Foundation and High Availability Solutions 5.1.

For important updates regarding this release, review the Late-Breaking News TechNote on the Symantec Technical Support website:

<http://entsupport.symantec.com/docs/335001>

The hardware compatibility list contains information about supported hardware and is updated regularly. For the latest information on supported hardware visit:

<http://entsupport.symantec.com/docs/330441>

Before installing or upgrading Storage Foundation and High Availability Solutions products, review the current compatibility list to confirm the compatibility of your hardware and software.

## List of products

Apply this patch for the following Veritas Storage Foundation and High Availability products:

- Veritas Storage Foundation (SF)
- Veritas Storage Foundation and High Availability (SFHA)
- Veritas Storage Foundation Cluster File System (SFCFS)
- Veritas Storage Foundation Cluster File System and High Availability (SFCFSHA)
- Veritas Storage Foundation Cluster File System for Oracle RAC (SFCFSRAC)
- Veritas Volume Manager (VM)
- Veritas Volume Replicator (VVR)
- Veritas File System (FS)
- Veritas Cluster Server (VCS)

## List of patches

This section lists the patches and RPMs.

**Table 1-1** Patches and RPMs for RHEL 5

Patch IDs	5.1 RPM names	Products affected
VRTSspt-5.5.00.0-GA.noarch.rpm	VRTSspt	SF, SFCFS, SFCFSRAC, VCS
VRTSvxvm-5.1.00.01-P1_RHEL5.x86_64.rpm	VRTSvxvm	SF, SFCFS, SFCFSRAC, VM/VVR
VRTSaslapm-5.1.00.01-P1_RHEL5.x86_64.rpm	VRTSaslapm	SFCFS, SFCFSRAC, VM/VVR
VRTSvmconv-5.1.00.01-P1_RHEL5.i686.rpm	VRTSvmconv	SF, SFCFS, SFCFSRAC, VCS, VM/VVR
VRTSvxfs-5.1.00.01-P1_RHEL5.x86_64.rpm	VRTSvxfs	SF, SFCFS, SFCFSRAC, FS

**Table 1-1** Patches and RPMs for RHEL 5 (*continued*)

Patch IDs	5.1 RPM names	Products affected
VRTSfssdk-5.1.00.01-P1_RHEL5.x86_64.rpm	VRTSfssdk	SF, SFCFS, SFCFSRAC, VCS
VRTSllt-5.1.00.01-P1_RHEL5.x86_64.rpm	VRTSllt	SFHA, SFCFS, SFCFSRAC, VCS
VRTSgab-5.1.00.01-P1_RHEL5.x86_64.rpm	VRTSgab	SFHA, SFCFS, SFCFSRAC, VCS
VRTSvcs-5.1.00.01-P1_RHEL5.i686.rpm	VRTSvcs	SFHA, SFCFS, SFCFSRAC, VCS
VRTScps-5.1.00.01-P1_RHEL5.i686.rpm	VRTScps	SFCFS, SFCFSRAC
VRTSvcsag-5.1.00.01-P1_RHEL5.i686.rpm	VRTSvcsag	SFHA, SFCFS, SFCFSRAC, VCS
VRTSvcssea-5.1.00.01-P1_RHEL5.i686.rpm	VRTSvcssea	SFHA, SFCFS, SFCFSRAC, VCS
VRTScavf-5.1.00.01-P1_GENERIC.i386.rpm	VRTScavf	SFCFS, SFCFSRAC

**Table 1-2** Patches and RPMs for SLES 10

Patch ID	5.1 RPM names	Products affected
VRTSspt-5.5.00.0-GA.noarch.rpm	VRTSspt	SF, SFCFS, SFCFSRAC, VCS
VRTSvxvm-5.1.00.01-P1_SLES10.x86_64.rpm	VRTSvxvm	SF, SFCFS, SFCFSRAC, VM/VVR
VRTSaslapm-5.1.00.01-P1_SLES10.x86_64.rpm	VRTSaslapm	SFCFS, SFCFSRAC, VM/VVR
VRTSvvmconv-5.1.00.01-P1_SLES10.i586.rpm	VRTSvvmconv	SF, SFCFS, SFCFSRAC, VCS, VM/VVR
VRTSvxfs-5.1.00.01-P1_SLES10.x86_64.rpm	VRTSvxfs	SF, SFCFS, SFCFSRAC, FS

**Table 1-2** Patches and RPMs for SLES 10 (continued)

Patch ID	5.1 RPM names	Products affected
VRTSfssdk-5.1.00.01-P1_SLES10.x86_64.rpm	VRTSfssdk	SF, SFCFS, SFCFSRAC, VCS
VRTSllt-5.1.00.01-P1_SLES10.x86_64.rpm	VRTSllt	SFHA, SFCFS, SFCFSRAC, VCS
VRTSgab-5.1.00.01-P1_SLES10.x86_64.rpm	VRTSgab	SFHA, SFCFS, SFCFSRAC, VCS
VRTSvcs-5.1.00.01-P1_SLES10.i586.rpm	VRTSvcs	SFHA, SFCFS, SFCFSRAC, VCS
VRTScps-5.1.00.01-P1_SLES10.i686.rpm	VRTScps	SFCFS, SFCFSRAC
VRTSvcsag-5.1.00.01-P1_SLES10.i586.rpm	VRTSvcsag	SFHA, SFCFS, SFCFSRAC, VCS
VRTSvcssea-5.1.00.01-P1_SLES10.i586.rpm	VRTSvcssea	SFHA, SFCFS, SFCFSRAC, VCS
VRTScavf-5.1.00.01-P1_GENERIC.i386.rpm	VRTScavf	SFCFS, SFCFSRAC

**Table 1-3** Patches and RPMs for SLES 11

Patch ID	5.1 RPM names	Products affected
VRTSspt-5.5.00.0-GA.noarch.rpm	VRTSspt	SF, SFCFS, SFCFSRAC, VCS
VRTSvxvm-5.1.00.01-P1_SLES11.x86_64.rpm	VRTSvxvm	SF, SFCFS, SFCFSRAC, VM/VVR
VRTSaslapm-5.1.00.01-P1_SLES11.x86_64.rpm	VRTSaslapm	SFCFS, SFCFSRAC, VM/VVR
VRTSvvmconv-5.1.00.01-P1_SLES11.i586.rpm	VRTSvvmconv	SF, SFCFS, SFCFSRAC, VCS, VM/VVR
VRTSvxfs-5.1.00.01-P1_SLES11.x86_64.rpm	VRTSvxfs	SF, SFCFS, SFCFSRAC, FS

**Table 1-3** Patches and RPMs for SLES 11 (*continued*)

Patch ID	5.1 RPM names	Products affected
VRTSfssdk-5.1.00.01-P1_SLES11.x86_64.rpm	VRTSfssdk	SF, SFCFS, SFCFSRAC, VCS
VRTSllt-5.1.00.01-P1_SLES11.x86_64.rpm	VRTSllt	SFHA, SFCFS, SFCFSRAC, VCS
VRTSgab-5.1.00.01-P1_SLES11.x86_64.rpm	VRTSgab	SFHA, SFCFS, SFCFSRAC, VCS
VRTSvcS-5.1.00.01-P1_SLES11.i686.rpm	VRTSvcS	SFHA, SFCFS, SFCFSRAC, VCS
VRTScps-5.1.00.01-P1_SLES11.i686.rpm	VRTScps	SFCFS, SFCFSRAC
VRTSvcSag-5.1.00.01-P1_SLES11.i686.rpm	VRTSvcSag	SFHA, SFCFS, SFCFSRAC, VCS
VRTSvcsea-5.1.00.01-P1_SLES11.i686.rpm	VRTSvcsea	SFHA, SFCFS, SFCFSRAC, VCS
VRTScavf-5.1.00.01-P1_GENERIC.i386.rpm	VRTScavf	SFCFS, SFCFSRAC

## Installing the patches

This section describes how to install the 5.1 Patch 1 after the 5.1 installation of your product.

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**Note:** Perform this procedure to patch the 5.1 installation only if you have installed 5.1 and have not configured or started 5.1.

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If you do not want to install all the RPMs, review the list of RPMs. Install only the RPMs for the products that you currently use.

See “[List of patches](#)” on page 4.

### To install the patches after the 5.1 install

- 1 Download the image file to a working directory.
- 2 Unzip the file.

```
# gunzip -d *.gz
```

**3** Untar the file.

```
# tar -xvf *.tar
```

**4** In the uncompressed image's working directory, change directory to /rpms.**5** On each system, use the rpm command to install the patches.

```
# rpm -Uvh --force rpm_name
```

Make sure that you install the patches in the following order for Linux operating system and the version of the operating system:

## ■ RedHat 5

```
# rpm -Uvh VRTSspt-5.5.00.0-GA.noarch.rpm
# rpm -Uvh VRTSvxvm-5.1.00.01-P1_RHEL5.x86_64.rpm
# rpm -Uvh VRTSaslapm-5.1.00.01-P1_RHEL5.x86_64.rpm
# rpm -Uvh VRTS1vmconv-5.1.00.01-P1_RHEL5.i686.rpm
# rpm -Uvh VRTSvxfs-5.1.00.01-P1_RHEL5.x86_64.rpm
# rpm -Uvh VRTSfssdk-5.1.00.01-P1_RHEL5.x86_64.rpm
# rpm -Uvh VRTS11t-5.1.00.01-P1_RHEL5.x86_64.rpm
# rpm -Uvh VRTSgab-5.1.00.01-P1_RHEL5.x86_64.rpm
# rpm -Uvh VRTSvcs-5.1.00.01-P1_RHEL5.i686.rpm
# rpm -Uvh VRTScps-5.1.00.01-P1_RHEL5.i686.rpm
# rpm -Uvh VRTSvcsag-5.1.00.01-P1_RHEL5.i686.rpm
# rpm -Uvh VRTSvcsea-5.1.00.01-P1_RHEL5.i686.rpm
# rpm -Uvh VRTScavf-5.1.00.01-P1_GENERIC.i386.rpm
```

## ■ Suse 10

```
# rpm -Uvh VRTSspt-5.5.00.0-GA.noarch.rpm
# rpm -Uvh VRTSvxvm-5.1.00.01-P1_SLES10.x86_64.rpm
# rpm -Uvh VRTSaslapm-5.1.00.01-P1_SLES10.x86_64.rpm
# rpm -Uvh VRTS1vmconv-5.1.00.01-P1_SLES10.i586.rpm
# rpm -Uvh VRTSvxfs-5.1.00.01-P1_SLES10.x86_64.rpm
# rpm -Uvh VRTSfssdk-5.1.00.01-P1_SLES10.x86_64.rpm
# rpm -Uvh VRTS11t-5.1.00.01-P1_SLES10.x86_64.rpm
# rpm -Uvh VRTSgab-5.1.00.01-P1_SLES10.x86_64.rpm
# rpm -Uvh VRTSvcs-5.1.00.01-P1_SLES10.i586.rpm
# rpm -Uvh VRTScps-5.1.00.01-P1_SLES10.i686.rpm
# rpm -Uvh VRTSvcsag-5.1.00.01-P1_SLES10.i586.rpm
# rpm -Uvh VRTSvcsea-5.1.00.01-P1_SLES10.i586.rpm
# rpm -Uvh VRTScavf-5.1.00.01-P1_GENERIC.i386.rpm
```



- Suse 11

```
# rpm -Uvh VRTSspt-5.5.00.0-GA.noarch.rpm
# rpm -Uvh VRTSvxvm-5.1.00.01-P1_SLES11.x86_64.rpm
# rpm -Uvh VRTSaslapm-5.1.00.01-P1_SLES11.x86_64.rpm
# rpm -Uvh VRTS1vmconv-5.1.00.01-P1_SLES11.i586.rpm
# rpm -Uvh VRTSvxfs-5.1.00.01-P1_SLES11.x86_64.rpm
# rpm -Uvh VRTSfssdk-5.1.00.01-P1_SLES11.x86_64.rpm
# rpm -Uvh VRTS11t-5.1.00.01-P1_SLES11.x86_64.rpm
# rpm -Uvh VRTSgab-5.1.00.01-P1_SLES11.x86_64.rpm
# rpm -Uvh VRTSvcs-5.1.00.01-P1_SLES11.i686.rpm
# rpm -Uvh VRTScps-5.1.00.01-P1_SLES11.i686.rpm
# rpm -Uvh VRTSvcsag-5.1.00.01-P1_SLES11.i686.rpm
# rpm -Uvh VRTSvcssea-5.1.00.01-P1_SLES11.i686.rpm
# rpm -Uvh VRTScavf-5.1.00.01-P1_GENERIC.i386.rpm
```

- 6 After upgrading the patches, create a soft-link for the `cpsadm` command. Enter the following command:

```
# ln -s /opt/VRTScps/bin/cpsadm /opt/VRTS/bin/cpsadm
```

- 7 Configure or start your Veritas product.

- Confirm that you are logged in as the superuser and that you have mounted the 5.1 product disc.
- For Storage Foundation, use the `installsf -start` command that is included in the 5.1 release. For all other products, use the `installer -configure` command.

See the 5.1 Installation Guide for your product.

## List of fixed issues

This patch fixes the following issues:

**Table 1-4** Fixed issues for 5.1 P1

Fixed issues	Description
1904164	[VCS][CPS][5.1.00.01] Upgrade of VRTScps-P1 package should fail if *vxcperv* running on a system
1900450	Race script is killed if it exceeds the script time-out.

**Table 1-4** Fixed issues for 5.1 P1 (*continued*)

Fixed issues	Description
1898219	LxRT,Oakmont 5.1P1: controller went into NO_LICENSE state and I/O error on shared FS during array side path failing tests.
1894185	RPM package fixing for Package Upgrade
1881796	A rename operation on a file seems to be hung on a system with Large Directory Hashing enabled.
1881792	The df and rm commands hang in an CFS environment.
1875054	After upgrade to 5.0MP3, CDS disks are presented as LVM disks
1866439	[vcs][281-758-973] hashadow core in restart_had /var/VRTSvcs/lock/.hadargs parse resulted in attempt to deref null ptr
1861505	LxRT-5.1:SFCFSHA:Though DB2(MPP mode) starts successfully on all cluster nodes, DB2agent didn't come online on a particular node
1857671	CVMVolDg monitor timeout due to ps -ef hang, after remote NFS server shutdown
1857558	[CVM] Need to ignore jeopardy notification from GAB for SFCFS/RAC, since oracle CRS takes care of fencing in this stack
1855943	[Notifier][240-987-375] SMTP notification email should contain Entity name in subject line
1855196	System panic due to depleted memory during GAB broadcast stress and reboot node 0.
1854642	Remove iscsi dependency in vxvm_boot for sles10 and sles11
1853275	The timer entry (I am alive messages) should be processed on a priority basis to heartbeat with the engine.
1852521	DiskGroupSnap - assumes all nodes are part of the campus cluster configuration
1851084	[281-772-629] Remote Group faults when setup as monitoronly and local SG is taken offline
1848722	VOL_NOTE_MSG definition needs to be revisited
1835139	CERT : pnate test hang I/O > 200 seconds during the filer giveback