Storage Foundation and High Availability Solutions Read This First

Solaris

5.1 Patch 1

Document version: 5.1.P1.0

Read This First

This document includes the following topics:

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/334829

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 for Oracle RAC (SFRAC)
- 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 packages.

Table 1-1 Patches and packages for Solaris 9 on SPARC

Patch ID	5.1 package names	Products affected	Solaris version
142629-01	VRTSvxvm	SF, SFCFS, SFRAC, VM/VVR	9, 10
142633-01	VRTSvxfs	SF, SFCFS, SFRAC, FS	9
143260-01	VRTSllt	SFHA, SFCFS, SFRAC, VCS	9
143262-01	VRTSgab	SFHA, SFCFS, SFRAC, VCS	9
143264-01	VRTSvcs	SFHA, SFCFS, SFRAC, VCS	9, 10
143265-01	VRTSvcsag	SFHA, SFCFS, SFRAC, VCS	9, 10
143273-01	VRTScavf	SFCFS, SFRAC	9
143270-01	VRTSodm	SF, SFCFS, SFRAC	9

Table 1-2 Patches and packages for Solaris 10 on SPARC

Patch ID	5.1 package names	Products affected	Solaris version
142629-01	VRTSvxvm	SF, SFCFS, SFRAC, VM/VVR	9, 10
142634-01	VRTSvxfs	SF, SFCFS, SFRAC, FS	10
143261-01	VRTSllt	SFHA, SFCFS, SFRAC, VCS	10
143263-01	VRTSgab	SFHA, SFCFS, SFRAC, VCS	10
143264-01	VRTSvcs	SFHA, SFCFS, SFRAC, VCS	9, 10
143265-01	VRTSvcsag	SFHA, SFCFS, SFRAC, VCS	9, 10
143274-01	VRTScavf	SFCFS, SFRAC	10
143271-01	VRTSodm	SF, SFCFS, SFRAC	10

Table 1-3 Patches and packages for Solaris 10 on x64

Patch ID	5.1 package names	Products affected	Solaris version
142630-01	VRTSvxvm	SF, SFCFS, SFRAC, VM/VVR	10
142635-01	VRTSvxfs	SF, SFCFS, SFRAC, FS	10
143266-01	VRTSllt	SFHA, SFCFS, SFRAC, VCS	10
143267-01	VRTSgab	SFHA, SFCFS, SFRAC, VCS	10
143268-01	VRTSvcs	SFHA, SFCFS, SFRAC, VCS	10
143269-01	VRTSvcsag	SFHA, SFCFS, SFRAC, VCS	10
143275-01	VRTScavf	SFCFS, SFRAC	10
143272-01	VRTSodm	SF, SFCFS, SFRAC	10

Installing the patches

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

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.

If you do not want to install all the patches, review the list of patches. Install only the patches 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 `/patches`.
5. For Solaris 10 customers who have non-global zones, stop the ODM module from all non-global zones. On one system, enter the following command:

   ```
   # /lib/svc/method/odm stop
   ```

6. On each system, use the `patchadd` command to install the patches.

   ```
   # patchadd patch_id
   ```

   Make sure that you install the patches in the following order for the architecture:

   - Solaris 9 on SPARC

     ```
     # patchadd 142629-01
     # patchadd 142633-01
     # patchadd 143260-01
     # patchadd 143262-01
     # patchadd 143264-01
     # patchadd 143265-01
     # patchadd 143273-01
     # patchadd 143270-01
     ```

   - Solaris 10 on SPARC

     ```
     # patchadd 142629-01
     # patchadd 142634-01
     # patchadd 143261-01
     # patchadd 143263-01
     ```

```
# patchadd 143264-01
# patchadd 143265-01
# patchadd 143274-01
# patchadd 143271-01
```

- Solaris 10 on x64

```
# patchadd 142630-01
# patchadd 142635-01
# patchadd 143266-01
# patchadd 143267-01
# patchadd 143268-01
# patchadd 143269-01
# patchadd 143275-01
# patchadd 143272-01
```

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
1905864	SxRT 5.1P1:SFRAC:"CFSMount" agent failed while doing a cfsmount.
1903739	SOL: must use 5.1 method to stop vea and sfmh service in upgrade_finish drivers unloaded
1900450	Race script is killed if it exceeds the script time-out.
1900326	[OakMontP1]Core dump when executing "notifier -s m=xyz&".

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

Fixed issues	Description
1897449	SxRT 5.1:SFCFS:vxfen svc service times out during reboot while executing "vxfen stop"
1896863	SxRT 5.1P1 - ODM and cavf Patches did not install caused the version differs than packages on the system.
1896531	Sol: CFS Allow device file creation on cfs to enable sol zoneroot on cfs
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.
1878094	Add Disk agent support for LDoms 1.2
1866439	[vcs][281-758-973] hashadow core in restart_had /var/VRTSvcs/lock/.hadargs parse resulted in attempt to deref null ptr
1861082	IPMultiNICB Agent: haipswicth core dumps
1857357	Sol VRTSodm preremove fails to umount /dev/odm in zone so modunload fails
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.
1853275	The timer entry (I am alive messages) should be processed on a priority basis to heartbeat with the engine.
1853262	CNFS: IPV6 support for cnfs.
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
1850166	vxvm vxdisk error v-5-1-8643 device <0_bpcs001_fra>: resize failed:
1849527	Removing the llt links from a single node from a 4-node SFRAC cluster causes other three node panic.
1846165	Data corruption seen on cdsdisks on Solaris-x86 in several customer cases

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

Fixed issues	Description
1839091	SxRT5.1:SFRAC:Resource coordpoint became FAULTED from time to time.
1835139	CERT : pnate test hang I/O > 200 seconds during the filer giveback
1834848	Oakmont:TP:Solaris:reclamation causes data corruption
1736295	I18N: SxRT5.1: Missing host names in engine_A.log file on Japanese

Documentation addendum

The following section contains the Disk agent for the *Veritas Cluster Server Bundled Agents Reference Guide*.

Disk agent

Monitors a physical disk or a partition. You can use the Disk agent to monitor a physical disk or a slice that is exported to LDoms (available using LDoms 1.2 or later). For LDoms with a physical disk or slice based boot image, a dependency must exist between the guest domain and primary domain. You configure the primary domain as the master of the guest domain.

Perform the following:

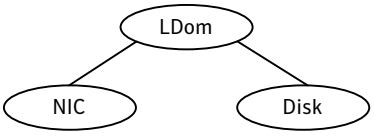
- Set the failure-policy of primary (control) domain to stop. For example, in the primary domain enter the following command to set the dependent domain to stop when the primary domain faults:

  ```
  # ldm set-domain failure-policy=stop primary
  ```

- Set the primary domain as the master for the guest domain.

  ```
  # ldm set-domain master=primary guestldom
  ```

Figure 1-1 Sample service group that includes a Disk resource on Solaris



Agent functions

Monitor—Performs read I/O operations on the raw device to determine if a physical disk or a partition is accessible.

State definitions

ONLINE—Indicates that the disk is working normally

FAULTED—Indicates that the disk has stopped working or is inaccessible.

UNKNOWN—Indicates that a problem exists either with the configuration or the ability to determine the status of the resource.

Attribute

The Disk agent has one required attribute.

Partition—Indicates which partition to monitor. Specify the partition with the full path beginning with a slash (/).

If this path is not specified, the name is assumed to reside in `/dev/rdsk/`.

Example: "`/dev/rdsk/c2t0d0s2`"

Type and dimension: string-scalar

Resource type definition

The following is the agent's resource type definition.

```
type Disk (
static int OfflineMonitorInterval = 60
static str ArgList[] = { Partition }
static str Operations = None
str Partition
)
```