VCS Installation Manual for Linux

NTS

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Contents

Installation Preparation

Supporting Platform

Before starting with VCS installation, check whether VCS support your system:

Operating System	Kernel	Architecture
Red Hat Enterprise Linux 4 (RHEL 4) Update 3	2.6.9-34.EL 2.6.9-34.smp 2.6.9-34.hugemem	x86 (32-bit) Intel Xeon (32-bit, 64-bit) AMD Opteron (32-bit, 64-bit)
SUSE Linux Enterprise Server 9 (SLES 9) with SP3	2.6.5-7.244 2.6.5-7.244-smp 2.6.5-7.244-bigsmp	x86 (32-bit) Intel Xeon (32-bit, 64-bit) AMD Opteron (32-bit, 64-bit)

Pre-Installation Task

Login as root

1. Setting PATH and MANPATH variable

Run the following command:

```
$ PATH=/usr/sbin:/sbin:/opt/VRTS/bin:/opt/VRTSvcs/bin:\ $PATH; export PATH

$ MANPATH=/usr/share/man:/opt/VRTS/man; export MANPATH
```

2. Setting up private network
   - Install the required NICs
   - Connect each private NICs whether using cross-cable (only for 2 nodes) or private hubs
   - Test network connection between nodes, using either **telnet** or **ping**

3. Setting up shared storage
   - Connect shared disks to each nodes
   - Make sure nodes can access the disks
   - Configure so each node can reserve, claim and release the disks safely

4. Enable communication between each system.

Make sure that each node can connect to other nodes using rsh or ssh. By default VCS installation will use ssh. It is recommended that you configured so that ssh or rsh won't prompt for passphrases and password during installation.

5. Obtain a valid license keys
6. Mount the product disc

```
$mount -o ro /dev/cdrom /mnt/cdrom
$ cd /mnt/cdrom/rhel4_i686/cluster_server
```

Installing VCS

Login as root

Follow the following procedure

```
$ ./installvcs

Enter the system names separated by spaces on which to install VCS:  CL01CARMENAPP
CLO1CARMENDB
```

- Review as VCS installation script checking your system.

```
$/opt/VRTSvcs/bin/hastatus –sum
        --      System          State           Frozen
        A       S1              RUNNING         0
        A       S2              RUNNING         0
```

- View communication link with other nodes, upon success you'll be asked license keys

```
Enter a VCS license key for CL01CARMENAPP: [?] XXXX-XXXX-XXXX-XXXX-XXX
XXXX-XXXX-XXXX-XXXX-XXX successfully registered on CL01CARMENAPP
Do you want to enter another license key for north? [y,n,q,?]
(n)
```

- Select all RPMs when asked which RPMs you want to install

```
Select the RPMs to be installed on all systems? [1-3,q,?] (3) 2
```

- Select **Yes** when asked whether you want to configure VCS

Continue the configuration:

Enter the unique cluster name: [?] CLCARMEN

Enter the unique Cluster ID number between 0-65535: [b,?] 2

Discovering NICs on CL01CARMENAPP

Enter the NIC for the first private heartbeat link on CL01CARMENAPP: [b,?] eth1

Are you sure you want to use eth1 for the first private heartbeat link? [y,n,q,b,?] (n) y

Would you like to configure a second private heartbeat link? [y,n,q,b,?] (y) n

Enter the NIC for the low priority heartbeat link on CL01CARMENAPP: [b,?] (eth0) eth2

Are you using the same NICs for private heartbeat links on all systems? [y,n,q,b,?] (y)

Cluster Name: CLCARMEN

Cluster ID Number: 2

Private Heartbeat NICs for CL01CARMENAPP: link1=eth1

Low Priority Heartbeat NIC for CL01CARMENAPP: link-lowpri=eth2

Private Heartbeat NICs for CL01CARMENDB: link1=eth1

Low Priority Heartbeat NIC for CL01CARMENDB: link-lowpri=eth2

Is this information correct? [y,n,q] (y) y

Would you like to configure VCS to use Symantec Security Services? [y,n,q] (n)

Do you want to set the username and/or password for the Admin user

(default username = 'admin', password='password')? [y,n,q] (n)

Do you want to add another user to the cluster? [y,n,q] (y) n

Is this information correct? [y,n,q] (y)

Do you want to configure SMTP notification? [y,n,q,?] (y) n

Do you want to configure SNMP notification? [y,n,q,?] (y) n

Wait until the configuration completed

It is strongly recommended to reboot the following systems.

CL01CARMENAPP CL01CARMENDB

Execute '/sbin/shutdown -r now' to properly restart your systems.

After configuration restart all of the nodes by running

```
$/sbin/shutdown -r now
```