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Veritas Cluster Server

[Change Configuration]_{v 1.2}

This document contains the latest configuration of VCS implemented in CLCARMEN environment after reinstallation in November 2009

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Document Revision

Version	Date	Change	Author
1.0	Nov, 17 2009		ICT
1.1	Nov, 19 2009	Startup script for CLCARMENDBV (*_start.sh, Notes: replace * with the name of VG , vgworkspace_start.sh, vgworkspace_clean.sh	ICT
1.2	Dec, 20 2009	Add startup, shutdown, clean, and monitor script for archive01vg, backupvg01, data01vg, data02vg, index01vg, index02vg, and temp01vg	ICT

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1 Cluster Environment

1.1 Servers

Hostname	IP	OS	Kernel Version	VCS Version
CL01CARMENAPP	10.22.197.51, 10.22.136.50, 10.22.133.50, 10.22.195.50	RHEL 5 Update 2	2.6.18-92.el5	5.0 MP3 RP2
CL01CARMENDB	10.22.197.50, 10.22.136.51, 10.22.133.51, 10.22.195.51	RHEL 5 Update 2	2.6.18-92.el5	5.0 MP3 RP2

1.2 Array

Array	Model
NetApp 1	FAS 6080

1.3 Configured Application & Database

Name	User/Group	Install Location	Shared Disk	IP Address
Oracle	oracle/dba	/u01/app/oracle/product/10.2.0 /db1/bin	/data1 /data2 /index1 /index2 /temp /archive /backup	10.22.197.52
Tomcat/ Carmen	cmsuser/cmsgroup	/carmen/bin	/workspace	10.22.195.52

1.4 Configured Service Groups

1.4.1 CL01CARMENAPPV

Below are configuration for service group CL01CARMENAPPV

```
group CLCARMENAPPV (
    SystemList = { CL01CARMENAPP = 0, CL01CARMENDB = 1 }
    AutoStart = 0
    AutoStartList = { CL01CARMENAPP, CL01CARMENDB }
)

Application CARMEN (
    User = cmsuser
    StartProgram = "/carmen/bin/e2e-start.sh"
    StopProgram = "/carmen/bin/e2e-stop.sh"
    MonitorProgram = "/carmen/bin/vcs_monitor.sh"
)

Application Manual_vg_workspace (
    Critical = 0
    StartProgram = "/scripts/vgworkspace_start.sh"
    StopProgram = "/scripts/vgworkspace_stop.sh"
    CleanProgram = "/scripts/vgworkspace_clean.sh"
    MonitorProgram = "/scripts/vgworkspace_monitor.sh"
)

IP IP_10_22_195_52 (
    Device = eth3
    Address = "10.22.195.52"
    NetMask = "255.255.255.0"
)

Mount Mount_workspace (
    MountPoint = "/workspace"
    BlockDevice = "/dev/mapper/vg_workspace-workspace"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-y"
)

NIC NIC_eth3 (
    Device = eth3
)

CARMEN requires IP_10_22_195_52
CARMEN requires Mount_workspace
IP_10_22_195_52 requires NIC_eth3
Mount_workspace requires Manual_vg_workspace
```

1.4.2 CL01CARMENDBV

Below are configuration for service group CL01CARMENDBV

```
group CLCARMENDBV (
    SystemList = { CL01CARMENDB = 0, CL01CARMENAPP = 1 }
    AutoStart = 0
    AutoStartList = { CL01CARMENDB, CL01CARMENAPP }
    PreOnline = 1
)

Application GLASS_Service (
    Critical = 0
    StartProgram = "/carmen/glassfish/bin/start-glassfish.sh"
    StopProgram = "/carmen/glassfish/bin/stop-glassfish.sh"
    MonitorProgram = "/carmen/glassfish/bin/vcs_monitor.sh"
)

Application Manual_archive01vg (
    Critical = 0
    StartProgram = "/scripts/archive01vg_start.sh"
    StopProgram = "/scripts/archive01vg_stop.sh"
    CleanProgram = "/scripts/archive01vg_clean.sh"
    MonitorProgram = "/scripts/archive01vg_monitor.sh"
)

Application Manual_backupvg01 (
    Critical = 0
    StartProgram = "/scripts/backupvg01_start.sh"
    StopProgram = "/scripts/backupvg01_stop.sh"
    CleanProgram = "/scripts/backupvg01_clean.sh"
    MonitorProgram = "/scripts/backupvg01_monitor.sh"
)

Application Manual_data01vg (
    Critical = 0
    StartProgram = "/scripts/data01vg_start.sh"
    StopProgram = "/scripts/data01vg_stop.sh"
    CleanProgram = "/scripts/data01vg_clean.sh"
    MonitorProgram = "/scripts/data01vg_monitor.sh"
)

Application Manual_data02vg (
    Critical = 0
    StartProgram = "/scripts/data02vg_start.sh"
    StopProgram = "/scripts/data02vg_stop.sh"
    CleanProgram = "/scripts/data02vg_clean.sh"
    MonitorProgram = "/scripts/data02vg_monitor.sh"
)

Application Manual_index01vg (
    Critical = 0
    StartProgram = "/scripts/index01vg_start.sh"
    StopProgram = "/scripts/index01vg_stop.sh"
    CleanProgram = "/scripts/index01vg_clean.sh"
    MonitorProgram = "/scripts/index01vg_monitor.sh"
)

Application Manual_index02vg (
    Critical = 0
    StartProgram = "/scripts/index02vg_start.sh"
    StopProgram = "/scripts/index02vg_stop.sh"
    CleanProgram = "/scripts/index02vg_clean.sh"
    MonitorProgram = "/scripts/index02vg_monitor.sh"
)
```

```

Application Manual_temp01vg (
    Critical = 0
    StartProgram = "/scripts/temp01vg_start.sh"
    StopProgram = "/scripts/temp01vg_stop.sh"
    CleanProgram = "/scripts/temp01vg_clean.sh"
    MonitorProgram = "/scripts/temp01vg_monitor.sh"

IP IP-10_22_197_52 (
    Device = eth0
    Address = "10.22.197.52"
    NetMask = "255.255.255.0"
)

Mount Mount-archive (
    MountPoint = "/archive"
    BlockDevice = "/dev/mapper/vg_data-archive"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-n"
)

Mount Mount-backup (
    MountPoint = "/backup"
    BlockDevice = "/dev/mapper/vg_data-backup"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-n"
)

Mount Mount-data1 (
    MountPoint = "/data1"
    BlockDevice = "/dev/mapper/vg_data-data1"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-n"
)

Mount Mount-data2 (
    MountPoint = "/data2"
    BlockDevice = "/dev/mapper/vg_data-data2"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-n"
)

Mount Mount-index1 (
    MountPoint = "/index1"
    BlockDevice = "/dev/mapper/vg_data-index1"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-n"
)

Mount Mount-index2 (
    MountPoint = "/index2"
    BlockDevice = "/dev/mapper/vg_data-index2"
    FSType = ext3
    MountOpt = rw
    FsckOpt = "-n"
)

Mount Mount-temp (

```

```

MountPoint = "/temp"
BlockDevice = "/dev/mapper/vg_data-temp"
FSType = ext3
MountOpt = rw
FsckOpt = "-n"
)

NIC NIC-CLCARMENDBV (
    Device = eth0
)

Netlsnr Netlsnr-LISTENER (
    Owner = oracle
    Home = "/u01/app/oracle/product/10.2.0/db1"
    TnsAdmin = "/u01/app/oracle/product/10.2.0/db1/network/admin"
    Listener = LISTENER
    MonScript = ""
)

Oracle Ora-cmsdb1 (
    Sid = cmsdb1
    Owner = oracle
    Home = "/u01/app/oracle/product/10.2.0/db1"
    StartUpOpt = STARTUP
    DetailMonitor = 1
    MonScript = ""
)

GLASS_Service requires Netlsnr-LISTENER
IP-10_22_197_52 requires NIC-CLCARMENDBV
Mount-archive requires Manual_archive01vg
Mount-backup requires Manual_backupvg01
Mount-data1 requires Manual_data01vg
Mount-data2 requires Manual_data02vg
Mount-index1 requires Manual_index01vg
Mount-index2 requires Manual_index02vg
Mount-temp requires Manual_temp01vg
Netlsnr-LISTENER requires IP-10_22_197_52
Netlsnr-LISTENER requires Ora-cmsdb1
Ora-cmsdb1 requires Mount-archive
Ora-cmsdb1 requires Mount-backup
Ora-cmsdb1 requires Mount-data1
Ora-cmsdb1 requires Mount-data2
Ora-cmsdb1 requires Mount-index1
Ora-cmsdb1 requires Mount-index2
Ora-cmsdb1 requires Mount-temp

```


1.5 Scripts

Below are additional scripts used in VCS to support configured service group:

1.5.1 Startup script for CLCARMENDBV (*_start.sh)

```
#!/bin/bash
vgimport *
vgchange -aey *
```

Notes: replace * with the name of VG

1.5.2 Cleanup script for CLCARMENDBV (*_clean.sh)

```
#!/bin/bash
vgimport *
vgchange -aey *
```

Notes: replace * with the name of VG

1.5.3 Stop script for CLCARMENDBV (*_stop.sh)

```
#!/bin/bash
vgchange -an *
vgexport *
vgchange -an *
```

Notes: replace * with the name of VG

1.5.4 Monitor script for CLCARMENDBV (*_monitor.sh)

```
#!/bin/ksh
vgs * | grep zx > /dev/null
if [ $? = 0 ]
then
    return 100
else
    return 110
fi
```

Notes: replace * with the name of VG

1.5.5 vgworkspace_start.sh

```
#!/bin/bash
vgimport vg_workspace
vgchange -aey vg_workspace
```

1.5.6 vgworkspace_clean.sh

```
#!/bin/bash
vgimport vg_workspace
vgchange -aey vg_workspace
```

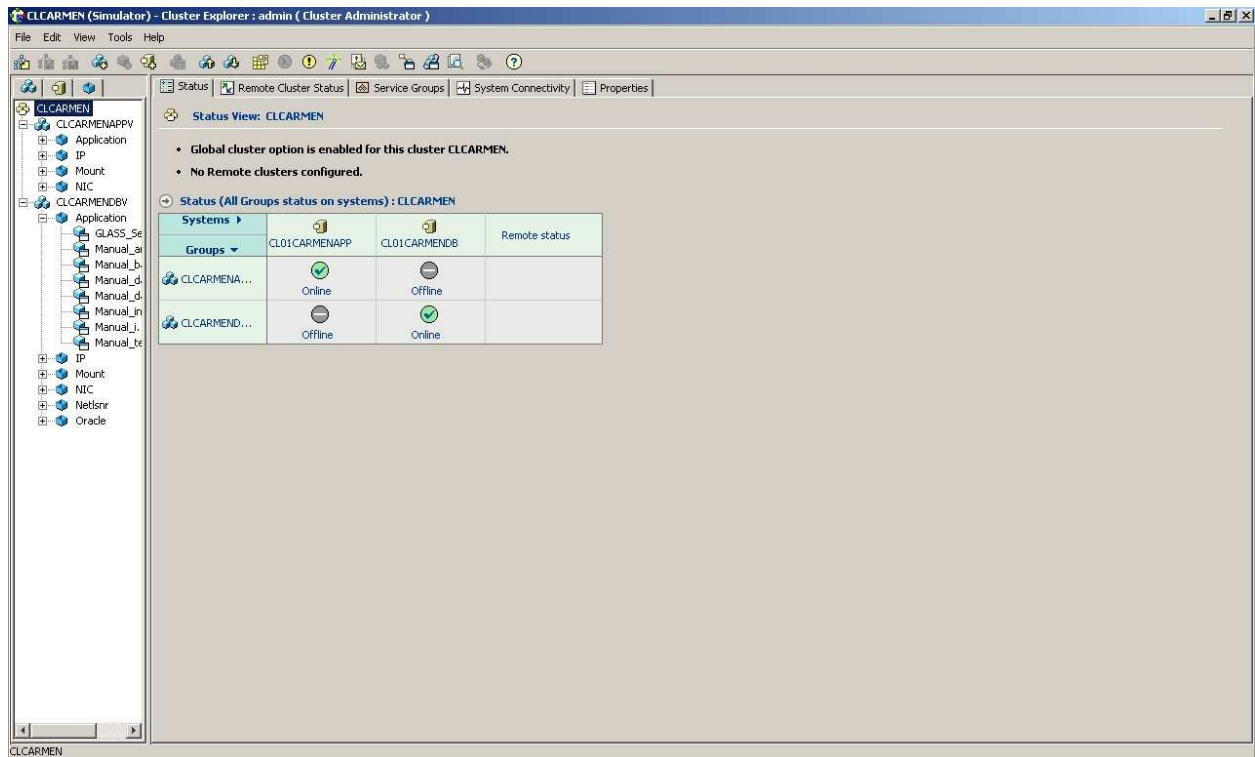
1.5.7 vgworkspace_stop.sh

```
#!/bin/bash
vgchange -an vg_workspace
vgexport vg_workspace
vgchange -an vg_workspace
```

1.5.8 vgworkspace_monitor.sh

```
#!/bin/ksh
vgs vg_workspace | grep x > /dev/null
if [ $? = 0 ]
then
    return 100
else
    return 110
fi
```

1.6 Screen Captures



CL01CARMENAPPV

The screenshot displays the 'Status View: CLCARMENAPPV' in the Cluster Explorer. The left pane shows a tree view of the cluster resources, including Application, IP, Mount, NIC, and Manual resources. The main pane shows the 'Group Status on Member Systems' and 'Resource Status'.

Group Status on Member Systems

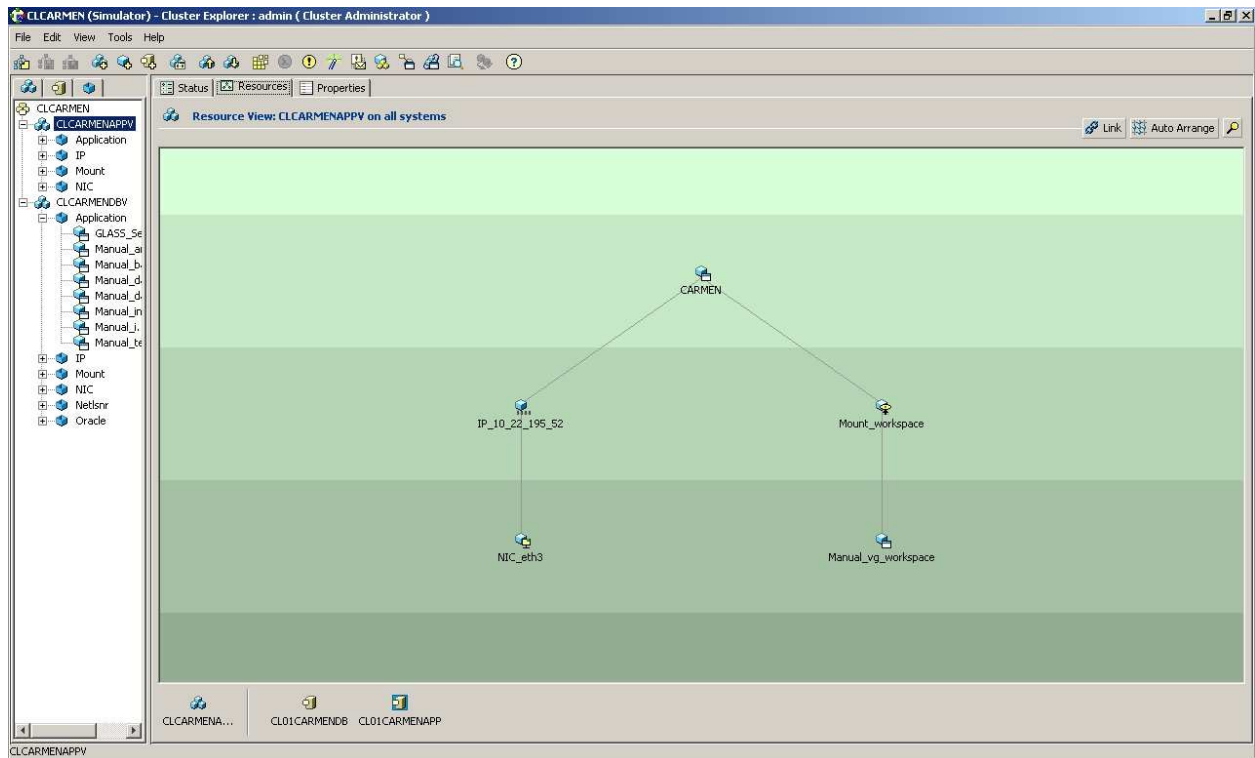
Member Systems	State	AutoDisabled, Disabled
CL01CARMENAPP	Online	
CL01CARMENDB	Offline	

Resource Status

Resource Name	Resource Type	Status
CARMEN	Application	Online on CL01CARMENAPP
IP_10_22_195_52	IP	Online on CL01CARMENAPP
Manual_vg_workspace	Application	Online on CL01CARMENAPP
Mount_workspace	Mount	Online on CL01CARMENAPP
NIC_eth3	NIC	Online on CL01CARMENAPP, CL01CARMENDB

Recent Critical/Error Logs

No Logs are available.



CL01CARMENDBV

CLCARMEN (Simulator) - Cluster Explorer : admin (Cluster Administrator)

File Edit View Tools Help

Status Resources Properties

Status View: CLCARMENDBV

Group Status on Member Systems

Member Systems	State	AutoDisabled, Disabled
CL01CARMENAPP	Offline	
CL01CARMENDB	Online	

Resource Status

Resource Name	Resource Type	Status
GLASS_Service	Application	Online on CL01CARMENDB
IP-10_22_197_52	IP	Online on CL01CARMENDB
Manual_archive01vg	Application	Online on CL01CARMENDB
Manual_backupvg01	Application	Online on CL01CARMENDB
Manual_data01vg	Application	Online on CL01CARMENDB
Manual_data02vg	Application	Online on CL01CARMENDB
Manual_index01vg	Application	Online on CL01CARMENDB
Manual_index02vg	Application	Online on CL01CARMENDB
Manual_temp01vg	Application	Online on CL01CARMENDB
Mount-archive	Mount	Online on CL01CARMENDB
Mount-backup	Mount	Online on CL01CARMENDB
Mount-data1	Mount	Online on CL01CARMENDB
Mount-data2	Mount	Online on CL01CARMENDB
Mount-index1	Mount	Online on CL01CARMENDB
Mount-index2	Mount	Online on CL01CARMENDB
Mount-temp	Mount	Online on CL01CARMENDB
NIC-CLCARMENDBV	NIC	Online on CL01CARMENAPP, CL01CARMENDB
Netlsnr-LISTENER	Netlsnr	Online on CL01CARMENDB
Ora-cmsdb1	Oracle	Online on CL01CARMENDB

Recent Critical/Error Logs

No Logs are available.

