

Oracle on IBM HACMP

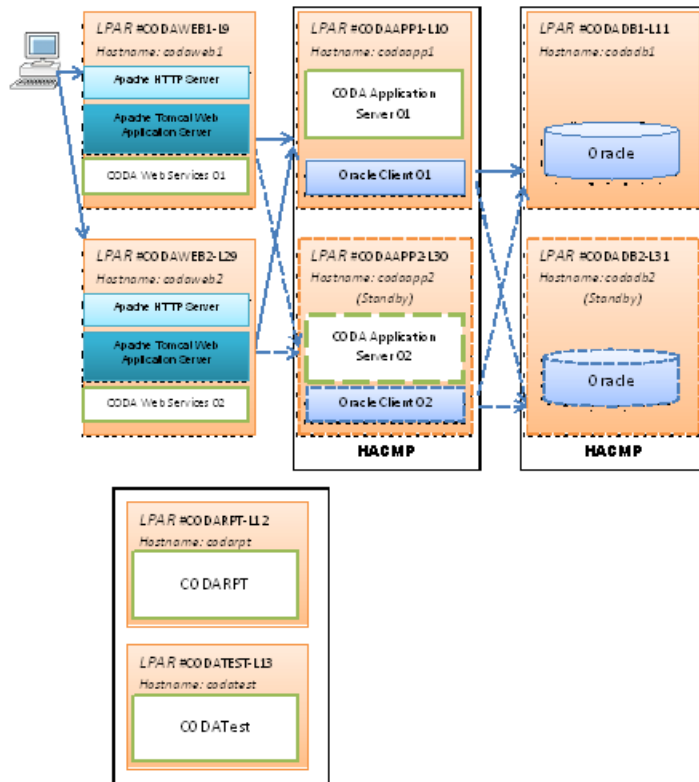
ACCOUNT:

MDC-p740A		LPAR # CODAWEB1-L9	LPAR # CODAAPP1-L10	LPAR # CODADB1-L11	LPAR CODARPT-L12		LPAR # CODATEST-L13
Hostname/ IP		codaweb1 en0 10.253.142.81 en1 10.253.136.81 en2 10.253.133.16 en3 10.253.133.140(svc)	codaapp1 en0 10.253.142.82 en1 10.253.136.82 en2 10.253.133.17 en3 10.253.133.141 10.253.133.142(svc)	codadb1 en0 10.253.142.83 en1 10.253.136.83 en2 10.253.133.18 en3 10.253.133.143 10.253.133.144(svc)	codarpt en0 10.253.142.84 en1 10.253.136.84 en2 10.253.133.19 en3 10.253.133.145(svc)		codatest en0 10.253.142.85 en1 10.253.136.85 en2 10.253.133.20 en3 10.253.133.146(svc)
Middleware/ Services		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS	CODA Application nameServer adminConsole financial assets ePay eConfigurator icm	Oracle Database 11g Release 11.2.0.2.0 - 64bit Production	Oracle Database 11g Release 11.2.0.2.0 - 64bit Production		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS CODA Application Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
OS User/Password		codaops/codaopsLiv	codaops/codaopsLiv	codaops/codaopsLiv oracle/oracle4coda	oracle/oraclerpt		oracle/oracle4dev
Middleware User/Password							
DB User/Password				CODAPROD (DBID=1057852613) codauser/codaliv sys/system/dbsnmp: Livingston_4U	Daily DB CODAPROD (DBID=1057852613) codauser/codaliv	Monthly DB MONTHRPT (DBID=1857461778) codauser/codaliv	CODADEV (DBID=3171481910) codauser/codadev sys/system/dbsnmp: codadev_4U(dev)

				sys/system/dbsnmp: Livingston_4U	sys/system/dbsnmp: Livingston_4U	
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MDC-p740B		LPAR # CODAWEB2-L29	LPAR # CODAAPP2-L30	LPAR # CODADB2-L31
Hostname/IP		codaweb2 en0 10.253.142.92 en1 10.253.136.92 en2 10.253.133.27 en3 10.253.133.159(svc)	codaapp2 en0 10.253.142.93 en1 10.253.136.93 en2 10.253.133.28 en3 10.253.133.160	codadb2 en0 10.253.142.94 en1 10.253.136.94 en2 10.253.133.29 en3 10.253.133.161
Middleware/ Services		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS	CODA Application nameServer adminConsole financial assets ePay eConfigurator icm	Oracle Database 11g Release 11.2.0.2.0 - 64bit Production
OS User/Password		codaops/codaopsLiv	codaops/codaopsLiv	codaops/codaopsLiv oracle/oracle4coda
Middleware User/Password				
DB User/Password				codauser/codaliv

TOPOLOGY:



New CODA on AWS: User: lchen

Linux Jump Host:

a0almadmjimp01 - 10.0.1.152

Finance Instances:

a0blpcdawww01 - 10.0.201.109

a0blpcdaora01 - 10.0.202.119

```
root@codaapp1:/># cltopinfo
```

```
Cluster Name: codaapp_cluster
Cluster Connection Authentication Mode: Standard
Cluster Message Authentication Mode: None
Cluster Message Encryption: None
Use Persistent Labels for Communication: No
There are 2 node(s) and 2 network(s) defined
```

```
NODE codaapp1:
```

```
Network net_diskhbmulti_01
  codaapp1_1      /dev/mndhb_lv_01
Network net_ether_01
  codaapp1_svc    10.253.133.142
  codaapp1_bt     10.253.133.141
```

```

NODE codaapp2:
    Network net_diskhbmulti_01
        codaapp2_2      /dev/mndhb_lv_01
    Network net_ether_01
        codaapp1_svc    10.253.133.142
        codaapp2_bt     10.253.133.160

Resource Group rg_diskhbmulti_01
    Startup Policy      Online On All Available Nodes
    Fallover Policy     Bring Offline (On Error Node Only)
    Fallback Policy     Never Fallback
    Participating Nodes codaapp1 codaapp2

Resource Group codaapp_RG
    Startup Policy      Online On Home Node Only
    Fallover Policy     Fallover To Next Priority Node In The List
    Fallback Policy     Fallback To Higher Priority Node In The List
    Participating Nodes codaapp1 codaapp2
    Service IP Label    codaapp1_svc

Total Heartbeats Missed:      0
Cluster Topology Start Time:  10/09/2015 09:34:21

```

root@codaapp1:/># clshowres

```

Resource Group Name          rg_diskhbmulti_01
Participating Node Name(s)   codaapp1 codaapp2
Startup Policy                Online On All Available Nodes
Fallover Policy               Bring Offline (On Error Node
Only)
Fallback Policy               Never Fallback
Site Relationship              ignore
Dynamic Node Priority
Service IP Label
Filesystems
Filesystems Consistency Check
Filesystems Recovery Method
Filesystems/Directories to be exported (NFSv2/NFSv3)
Filesystems/Directories to be exported (NFSv4)
Filesystems to be NFS mounted
Network For NFS Mount
Filesystem/Directory for NFSv4 Stable Storage
Volume Groups
Concurrent Volume Groups      mndhb_vg_01
Use forced varyon for volume groups, if necessary
Disks
GMVG Replicated Resources
GMD Replicated Resources
PPRC Replicated Resources
SVC PPRC Replicated Resources
EMC SRDF. Replicated Resources
Connections Services
Fast Connect Services
Shared Tape Resources

```

Application Servers
 Highly Available Communication Links
 Primary Workload Manager Class
 Secondary Workload Manager Class
 Delayed Fallback Timer
 Miscellaneous Data
 Automatically Import Volume Groups
 Inactive Takeover
 SSA Disk Fencing
 Filesystems mounted before IP configured
 WPAR Name
 Run Time Parameters:

Node Name	codaapp1
Debug Level	high
Format for hacmp.out	Standard

Node Name	codaapp2
Debug Level	high
Format for hacmp.out	Standard

Resource Group Name	codaapp_RG
Participating Node Name(s)	codaapp1 codaapp2
Startup Policy	Online On Home Node Only
Fallover Policy	Fallover To Next Priority Node
In The List	
Fallback Policy	Fallback To Higher Priority
Node In The List	
Site Relationship	ignore
Dynamic Node Priority	
Service IP Label	codaapp1_svc
Filesystems	ALL
Filesystems Consistency Check	fsck
Filesystems Recovery Method	sequential
Filesystems/Directories to be exported (NFSv2/NFSv3)	
Filesystems/Directories to be exported (NFSv4)	
Filesystems to be NFS mounted	
Network For NFS Mount	
Filesystem/Directory for NFSv4 Stable Storage	
Volume Groups	codaapp1_codavg
Concurrent Volume Groups	
Use forced varyon for volume groups, if necessary	false
Disks	
GMVG Replicated Resources	
GMD Replicated Resources	
PPRC Replicated Resources	
SVC PPRC Replicated Resources	
EMC SRDF. Replicated Resources	
Connections Services	
Fast Connect Services	
Shared Tape Resources	
Application Servers	codaapp_serv
Highly Available Communication Links	
Primary Workload Manager Class	

Secondary Workload Manager Class
 Delayed Fallback Timer
 Miscellaneous Data
 Automatically Import Volume Groups false
 Inactive Takeover
 SSA Disk Fencing false
 Filesystems mounted before IP configured false
 WPAR Name
 Run Time Parameters:

Node Name codaapp1
 Debug Level high
 Format for hacmp.out Standard

Node Name codaapp2
 Debug Level high
 Format for hacmp.out Standard

root@codaapp1:/># clshowsrv -v

Status of the RSCT subsystems used by HACMP:

Subsystem	Group	PID	Status
topsvcs	topsvcs	10944722	active
grpsvcs	grpsvcs	11075716	active
grpglsm	grpsvcs		inoperative
emsvcs	emsvcs	11272414	active
emaixos	emsvcs		inoperative
ctrmc	rsct	6684890	active

Status of the HACMP subsystems:

Subsystem	Group	PID	Status
clcomdES	clcomdES	7143654	active
clstrmgrES	cluster	6750452	active

Status of the optional HACMP subsystems:

Subsystem	Group	PID	Status
clinfoES	cluster	10158236	active

root@codaapp1:/># clRGinfo

Group Name	State	Node
rg_diskhbmulti	ONLINE	codaapp1
	ONLINE	codaapp2
codaapp_RG	ONLINE	codaapp1
	OFFLINE	codaapp2

clstat - HACMP Cluster Status Monitor

```

-----
Cluster: codaapp_cluster          (1574748122)
Thu Nov 19 11:10:05 EST 2015
  State: UP                      Nodes: 2
  SubState: STABLE
  
```

```

Node: codaapp1          State: UP
Interface: codaapp1_bt (1)      Address: 10.253.133.141
                                State:    UP
Interface: codaapp1_1 (0)      Address: 0.0.0.0
                                State:    UP
Interface: codaapp1_svc (1)     Address: 10.253.133.142
                                State:    UP

Resource Group: rg_diskhbmulti_01      State: On line
Resource Group: codaapp_RG              State: On line

Node: codaapp2          State: UP
Interface: codaapp2_bt (1)      Address: 10.253.133.160

```

root@codadb1:/># cltopinfo

```

Cluster Name: codadb_cluster
Cluster Connection Authentication Mode: Standard
Cluster Message Authentication Mode: None
Cluster Message Encryption: None
Use Persistent Labels for Communication: No
There are 2 node(s) and 2 network(s) defined

```

NODE codadb1:

```

Network net_diskhbmulti_01
      codadb1_1      /dev/mndhb_lv_01
Network net_ether_01
      codadb1_svc    10.253.133.144
      codadb1_bt     10.253.133.143

```

NODE codadb2:

```

Network net_diskhbmulti_01
      codadb2_2      /dev/mndhb_lv_01
Network net_ether_01
      codadb1_svc    10.253.133.144
      codadb2_bt     10.253.133.162

```

Resource Group rg_diskhbmulti_01

```

Startup Policy   Online On All Available Nodes
Failover Policy  Bring Offline (On Error Node Only)
Fallback Policy  Never Fallback
Participating Nodes      codadb1 codadb2

```

Resource Group codadb_RG

```

Startup Policy   Online On Home Node Only
Failover Policy  Fallover To Next Priority Node In The List
Fallback Policy  Fallback To Higher Priority Node In The List
Participating Nodes      codadb1 codadb2
Service IP Label          codadb1_svc

```

```

Total Heartbeats Missed:      42
Cluster Topology Start Time:  12/07/2014 08:42:37

```

root@codadb1:/># clshowres

```

Resource Group Name      rg_diskhbmulti_01
Participating Node Name(s)  codadb1 codadb2
Startup Policy            Online On All Available Nodes

```


Fallover Policy Only)	Bring Offline (On Error Node
Fallback Policy	Never Fallback
Site Relationship	ignore
Dynamic Node Priority	
Service IP Label	
Filesystems	
Filesystems Consistency Check	
Filesystems Recovery Method	
Filesystems/Directories to be exported (NFSv2/NFSv3)	
Filesystems/Directories to be exported (NFSv4)	
Filesystems to be NFS mounted	
Network For NFS Mount	
Filesystem/Directory for NFSv4 Stable Storage	
Volume Groups	
Concurrent Volume Groups	mndhb_vg_01
Use forced varyon for volume groups, if necessary	
Disks	
GMVG Replicated Resources	
GMD Replicated Resources	
PPRC Replicated Resources	
SVC PPRC Replicated Resources	
EMC SRDF. Replicated Resources	
Connections Services	
Fast Connect Services	
Shared Tape Resources	
Application Servers	
Highly Available Communication Links	
Primary Workload Manager Class	
Secondary Workload Manager Class	
Delayed Fallback Timer	
Miscellaneous Data	
Automatically Import Volume Groups	
Inactive Takeover	
SSA Disk Fencing	
Filesystems mounted before IP configured	
WPAR Name	
Run Time Parameters:	
Node Name	codadb1
Debug Level	high
Format for hacmp.out	Standard
Node Name	codadb2
Debug Level	high
Format for hacmp.out	Standard
Resource Group Name	codadb_RG
Participating Node Name(s)	codadb1 codadb2
Startup Policy	Online On Home Node Only
Fallover Policy	Fallover To Next Priority Node
In The List	
Fallback Policy	Fallback To Higher Priority
Node In The List	
Site Relationship	ignore

Dynamic Node Priority	
Service IP Label	codadb1_svc
Filesystems	ALL
Filesystems Consistency Check	fsck
Filesystems Recovery Method	sequential
Filesystems/Directories to be exported (NFSv2/NFSv3)	
Filesystems/Directories to be exported (NFSv4)	
Filesystems to be NFS mounted	
Network For NFS Mount	
Filesystem/Directory for NFSv4 Stable Storage	
Volume Groups	codadb1_fravg codadb1_dbvg
Concurrent Volume Groups	
Use forced varyon for volume groups, if necessary	false
Disks	
GMVG Replicated Resources	
GMD Replicated Resources	
PPRC Replicated Resources	
SVC PPRC Replicated Resources	
EMC SRDF. Replicated Resources	
Connections Services	
Fast Connect Services	
Shared Tape Resources	
Application Servers	codadb_serv
Highly Available Communication Links	
Primary Workload Manager Class	
Secondary Workload Manager Class	
Delayed Fallback Timer	
Miscellaneous Data	
Automatically Import Volume Groups	false
Inactive Takeover	
SSA Disk Fencing	false
Filesystems mounted before IP configured	false
WPAR Name	
Run Time Parameters:	
Node Name	codadb1
Debug Level	high
Format for hacmp.out	Standard
Node Name	codadb2
Debug Level	high
Format for hacmp.out	Standard