

High Availability: How do I switch the identity of the primary head node to the secondary head node?

This can be useful if you want to switch the active headnode to the passive headnode. For example, for the purposes of swapping hardware.

(NOTE: in this example the primary/active headnode is hpc001, and hpc002 is the passive/secondary)

Current configuration

```
[root@hpc001 ~]# cmsh
[hpc001]% partition use base
[hpc001->partition[base]]% get headnode
hpc001
[hpc001->partition[base]]% failover
[hpc001->partition[base]->failover]% get secondaryheadnode
hpc002
[root@hpc001 ~]# cmha status
Node Status: running in active mode
hpc001* -> hpc002
failoverping [ OK ]
mysql [ OK ]
ping [ OK ]
status [ OK ]
hpc002 -> hpc001*
failoverping [ OK ]
mysql [ OK ]
ping [ OK ]
status [ OK ]
```

Now let's make the changes

```
[root@hpc001 ~]# cmsh
[hpc001]% partition use base
[hpc001->partition[base]]% failover
[hpc001->partition[base]->failover]% clear secondaryheadnode
[hpc001->partition*[base*]->failover*]% commit

[hpc001->partition*[base*]->failover]% ..
[hpc001->partition[base]]% set headnode hpc002
[hpc001->partition[base*]]% commit
```

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```
[hpc001->partition[base]]% failover  
[hpc001->partition[base]->failover]% set secondaryheadnode hpc001  
[hpc001->partition*[base*]->failover*]% commit
```

At this point, HA will be in a confused state.

```
[root@hpc002 ~]# cmha status  
No HA status available.  
Unable to get passive head node, is failover setup complete?  
Internal error, unable to set node HA status: No passive head node
```

Restart CMD on both nodes

```
[root@hpc001 ~]# service cmd restart  
[root@hpc002 ~]# service cmd restart
```

Now make the previous secondary headnode the primary.

```
[root@hpc002 ~]# cmha makeactive  
Continue(c)/Exit(e)? c  
Initiating failover..... [ OK ]
```

Lets verify the status

```
[root@hpc002 ~]# cmha status  
Node Status: running in active mode  
  
hpc002* -> hpc001  
failoverping [ OK ]  
mysql [ OK ]  
ping [ OK ]  
status [ OK ]
```

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```
hpc001 -> hpc002*
```

```
failoverping [ OK ]
```

```
mysql [ OK ]
```

```
ping [ OK ]
```

```
status [ OK ]
```

```
[root@hpc002 ~]# cmsh -c "partition ; failover ; get secondaryheadnode  
"
```

```
hpc001
```

```
[root@hpc002 ~]# cmsh -c "partition ; get headnode"
```

```
hpc002
```

```
[root@hpc001 ~]# cmsh -c "partition ; failover ; get secondaryheadnode  
"
```

```
hpc001
```

```
[root@hpc001 ~]# cmsh -c "partition ; get headnode"
```

```
hpc002
```

Unique solution ID: #1486

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