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RedHat Cluster Suite And Conga - Linux Clustering

# RedHat Cluster Suite And Conga - Linux Clustering

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This how to describes an easy step by step installation of the RedHat

Cluster Suite on three CentOS nodes and prepare them as nodes of a cluster. You will also install the Management suite which is web based and is known as Conga.

You will use three nodes to form the cluster and one node as the cluster management node and as a cluster node it will not take part. All the nodes and the management node should be resolvable either by host file entries or by DNS.

#### **Cluster Nodes:**

cnode1:

eth0-192.168.2.151/24 - external-lan

eth1-192.168.1.200/26 - internal-lan cluster

cnode2:

eth0-192.168.2.152/24 - external-lan

eth1-192.168.1.201/26 - internal-lan cluster

cnode3:

eth0-192.168.2.153/24 - external-lan

eth1-192.168.1.202/26 - internal-lan cluster

### **Cluster Management Node:**

centos:

eth0-192.168.2.150/24

As the cluster, its management interface and the service deamons use tcp, for the purpose of this article you can disable the firewalls at these nodes.

OS - All Nodes:

CentOS 6 Minimal

Cluster Nodes - Software Installation:

yum groupinstall "High Availability" yum install ricci

Cluster Management Node - Software Installation:

yum groupinstall "High Availability Management" yum install ricci

Copy this initial sample cluster config file into /etc/cluster/cluster.conf at all the nodes cnode1, cnode2, cnode3.

This initial file states that the cluster name is c11 and defines the cluster nodes.

Now some services have to be configured and started at the nodes first and then at the management node as below.

Cluster Nodes:

```
chkconfig iptables off
chkconfig ip6tables off
chkconfig ricci on
chkconfig cman on
chkconfig rgmanager on
chkconfig modclusterd on
```

Create a password for the ricci service user with

```
service iptables stop
service ip6tables stop
service ricci start
service cman start
service rgmanager start
service romanager start
```

#### Cluster Management Node:

```
chkconfig iptables off
chkconfig ip6tables off
chkconfig luci on
chkconfig ricci on

service iptables stop
service ip6tables stop
service luci start
service ricci start
```

luci service is the management service that presents the web based cluster interface via https at port 8084 and can be accessed in any browser at

https://<cluster management node FQDN or hostname:8084>/

ricci service is the underlying daemon that helps in cluster configuration sync and file copy, service start, stop etc. and uses tcp port 11111.

cman, rgmanager and modclusterd are the actual cluster services which futher start other services that actually make the clustering happen and keep it live.

Open a browser and enter the conga node url which in tis case is https://centos:8084/

After clicking 'ok' to the initial warning information you will be presented with the login screen. Enter the root user and root password of that system and start the interface.

Now click <code>Add cluster</code> and add the first node <code>cnode1</code> and the ricci password, click 'ok' and it will detect the other two nodes also, add the ricci passwords and the cluster will be added to the Cluster Management interface. The cluster can be managed and configured from this interface. Care should be taken as the <code>cluster.conf</code> file sometimes does not get synced to all cluster nodes, they will get fenced due to version misconfiguration. At such times copy the <code>cluster.conf</code> file from node1 to all the other nodes. If all the nodes are in sync then the uptime is shown in the cluster nodes list.

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#### **Comments**

From: saorabh Reply

hear for each 3 nodes we have 3 external ips, if the 3 nodes to configure with one public ip then how will be the configuration steps, can u pls help me out , thanks saorabh

From: Anonymous Reply

You have "yum install ricci" for both the cluster nodes and the management node. Did you mean to do "yum install luci" for the management node? Thanks for the article.

From: Anonymous Reply

sir we have also configure 2 node cluster and both are working fine.

we have do manually switch over and shutdown the one node then check the service is switch over to other node.

But we have one problem whenever one node network fail ya down then service is not switch over to other node.

Please suggest to me how to configure network fail-over configuration.

we have use RHEL 6 6.3.

Both server is HP Proliant g8 server and HP P2000 storage

luci configure in one node1 not use to another system ya server.

cluster server name: 1) node1 2) node2

one doubt sir for luci configure required one another system. can i use in any one node server.

Thanks a lot sir for helping ..

From: Reply

If you're talking about the non-heartbeat network failing but not failing over, I noticed that to. I put in a metric in the quorum disk settings to ping the default gateway. If it cannot ping, then failover will occur.

From: ben Reply

The heuristics for quorumd are helpful for this reason. Thanks for the tip on the ping. I have it pinging the default gateway as my heuristic.

I also noticed that when I put in a cluster IP and put that as the first resource, and make every resource a child resource of the cluster IP, as soon as I unplug the public IP cable, everything fails over immediately. If you have any resources not dependent on the cluster IP, then the ping heuristic is very handy

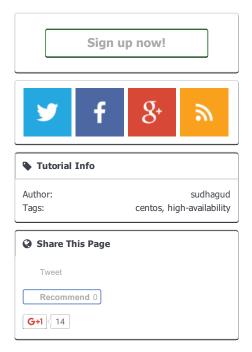
From: Anonymous Reply

HI,

IF management node will fail is the cluster will continue or not?

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