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Submitted by falko on Mon, 2006-03-27 12:16. ::

6.2 Configure heartbeat

Next we configure *heartbeat* by creating three files (all three files must be identical on *loadb1.example.com* and *loadb2.example.com*):

[loadb1.example.com / loadb2.example.com:](#)

```
vi /etc/ha.d/ha.cf
```

```
logfacility          local0
bcast              eth0
mcast eth0 225.0.0.1 694 1 0
auto_failback off
node               loadb1
node               loadb2
respawn hacluster /usr/lib/heartbeat/ipfail
apiauth ipfail gid=haclient uid=hacluster
```

Please note: you must list the node names (in this case `loadb1` and `loadb2`) as shown by

```
uname -n
```

Other than that, you don't have to change anything in the file.

```
vi /etc/ha.d/haresources
```

```
loadb1          \
                \
                ldirectord::ldirectord.cf \
                LVSSyncDaemonSwap::master \
                IPaddr2::192.168.0.105/24/eth0/192.168.0.255
```

You must list one of the load balancer node names (here: `loadb1`) and list the virtual IP address (`192.168.0.105`) together with the correct netmask (`24`) and broadcast address (`192.168.0.255`). If you are unsure about the correct settings, <http://www.subnetmask.info/> might help you.

```
vi /etc/ha.d/authkeys
```

```
auth 3
3 md5 somerandomstring
```

somerandomstring is a password which the two *heartbeat* daemons on *loadb1* and *loadb2* use to authenticate against each other. Use your own string here. You have the choice between three authentication mechanisms. I use *md5* as it is the most secure one.

/etc/ha.d/authkeys should be readable by root only, therefore we do this:

[loadb1.example.com / loadb2.example.com](http://loadb1.example.com/loadb2.example.com):

```
chmod 600 /etc/ha.d/authkeys
```

6.3 Configure *ldirectord*

Now we create the configuration file for *ldirectord*, the load balancer:

[loadb1.example.com / loadb2.example.com](http://loadb1.example.com/loadb2.example.com):

```
vi /etc/ha.d/ldirectord.cf
```

```
# Global Directives
checktimeout=10
checkinterval=2
autoreload=no
logfile="local0"
quiescent=yes

virtual = 192.168.0.105:3306
    service = mysql
    real = 192.168.0.101:3306 gate
    real = 192.168.0.102:3306 gate
    checktype = negotiate
    login = "ldirector"
    passwd = "ldirectorpassword"
```

Please fill in the correct virtual IP address (*192.168.0.105*) and the correct IP addresses of your MySQL cluster nodes (*192.168.0.101* and *192.168.0.102*). *3306* is the port that MySQL runs on by default. We also specify a MySQL user (*ldirector*) and password (*ldirectorpassword*), a database (*ldirectordb*) and an SQL query. *ldirectord* uses this information to make test requests to the MySQL cluster nodes to check if they are still available. We are going to create the *ldirector* database with the *ldirector* user in

the next step.

Now we create the necessary system startup links for `heartbeat` and remove those of `ldirectord` (because `ldirectord` will be started by `heartbeat`):

[loadb1.example.com / loadb2.example.com:](#)

```
update-rc.d -f heartbeat remove
update-rc.d heartbeat start 75 2 3 4 5 . stop 05 0 1 6 .
update-rc.d -f ldirectord remove
```

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