

Bonding with CentOS 5.x by Karlo

Configuration:

- 2 NICS.
- Static Ips
- 1 Bonding

1. Configure *ifcfg-eth0*

Location for *ifcfg-ethx*: */etc/sysconfig/network-scripts*

```
DEVICE=eth0
BOOTPROTO=none
ONBOOT=yes
TYPE=Ethernet
USERCTL=no
PEERDNS=yes
IPADDR=192.168.1.15
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
DNS1=192.168.1.1
MASTER=bond0
SLAVE=yes
```

Since my configuration included a DNS HW I had to add PEERDNS and DNS1 parameters. Doing so */etc/resolv.conf* will be updated accordingly.

Note that the parameters needed for Bonding are:

MASTER=Device name used for bonding

SLAVE=means of device is part of Bonding.

2. Configure *ifcfg-eth1*

```
DEVICE=eth1
BOOTPROTO=none
ONBOOT=yes
TYPE=Ethernet
USERCTL=no
PEERDNS=yes
IPADDR=192.168.1.16
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
DNS1=192.168.1.1
MASTER=bond0
SLAVE=yes
```

3. Create and Configure Bond Device.

#touch ifcfg-bond0

Once created add this values.

```
DEVICE=bond0
BOOTPROTO=none
ONBOOT=yes
TYPE=Ethernet
USERCTL=no
PEERDNS=yes
DNS1=192.168.1.1
IPADDR=192.168.1.20
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
```

```
DEVICE=bond0
BOOTPROTO=none
ONBOOT=yes
TYPE=Ethernet
USERCTL=no
IPADDR=192.168.1.71
NETMASK=255.255.255.0
GATEWAY=192.168.1.1
```

4. Add values to [/etc/modprobe.conf](#)

This is order for Bond device to be recognized and used by the system

Values to be added:

```
alias bond0 bonding
options bond0 miimon=100 mode=1
```

```
alias eth0 pcnet32
alias eth1 pcnet32
alias snd-card-0 snd-ens1371
alias bond0 bonding
options snd-card-0 index=0
options snd-ens1371 index=0
options bond0 miimon=100 mode=1
remove snd-ens1371 { /usr/sbin/alsactl store 0 >/dev/null 2>&1 || : ; }; /sbin/m
odprobe -r --ignore-remove snd-ens1371
```

Remember there several modes this is used depending on the router/switch on the other side.

5. Restart network services.

```
#!/etc/init.d/network restart
```

Check Conf was OK.

6. Check IP configurations

```
#!/sbin/ifconfig
```

Sources:

<http://mergy.org/tag/redhat-enterprise-linux-5-bonding/>

Mode of balance.

http://www.howtoforge.com/network_card_bonding_centos

Adding commands to PATH.

```
# PATH=$PATH:/sbin/
```

```
#PATH=$PATH:/etc/init.d/
```