

Chapter 3

1) Display the current state of the existing network interfaces

```
[tokashawky@localhost ~]$ ip link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP mode DEFAULT group default qlen 1000
    link/ether 00:0c:29:2c:c2:56 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
[tokashawky@localhost ~]$
```

2) Create an active backup network team interface called team0.

a. Create the network team interface and call it team0.

b. Add ens33 and ens36 as team ports

c. Confirm it is working

```
[root@localhost ~]# nmcli connection add type team ifname team0 con-name team0 config '{"runner": {"name": "activebackup"}}'
Connection 'team0' (8136abd7-f651-4012-b7f2-3c09e46209bd) successfully added.
[root@localhost ~]# nmcli con add type team-slave con-name team0-port1 ifname ens33 master team0
Connection 'team0-port1' (630abbfa-797e-43ba-b07e-6bac26955c7f) successfully added.
[root@localhost ~]# nmcli con add type team-slave con-name team0-port2 ifname ens36 master team0
Connection 'team0-port2' (709dd73c-2cb4-4607-a685-7e4c4edb3bed) successfully added.
[root@localhost ~]# nmcli con up team0
Connection successfully activated (controller waiting for ports) (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/4)
[root@localhost ~]# teamdctl team0 state
setup:
  runner: activebackup
runner:
  active port:
[root@localhost ~]#
```

3) Disable the team0 interface and stop NetworkManager

```
[root@localhost ~]# nmcli con down team0
Connection 'team0' successfully deactivated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/4)
[root@localhost ~]# systemctl stop NetworkManager
[root@localhost ~]#
```

4) Modify config files for bridging

a. List original files

```
[root@localhost ~]# ls -l /etc/NetworkManager/system-connections/
total 16
-rw-----. 1 root root 227 May 19 02:13 ens33.nmconnection
-rw-----. 1 root root 218 May 26 23:18 team0.nmconnection
-rw-----. 1 root root 162 May 26 23:21 team0-port1.nmconnection
-rw-----. 1 root root 162 May 26 23:21 team0-port2.nmconnection
[root@localhost ~]#
```

b. Edit ifcfg-team0 to link it to a bridge

c. Remove IP from slave config files

d. Create bridge config file

```
[root@localhost ~]# vim /etc/sysconfig/network-scripts/ifcfg-team0
[root@localhost ~]# vim /etc/sysconfig/network-scripts/ifcfg-team0-port1
[root@localhost ~]# vim /etc/sysconfig/network-scripts/ifcfg-team0-port2
[root@localhost ~]# vim /etc/sysconfig/network-scripts/ifcfg-brteam0
[root@localhost ~]#
```

5) Restart the network

```
[root@localhost ~]# systemctl restart NetworkManager
[root@localhost ~]#
```