

Virtual IP SETUP: RHEL-8.4

Mount the ISO provided: rhel-8.4-x86_64-dvd.iso high availability setup

Master Server Setup:

```
[root@vcc-etisalat manish]# mount -o loop rhel-8.4-x86_64-dvd.iso /mnt
```

```
[root@vcc-etisalat Packages]# cp /mnt/media.repo /etc/yum.repos.d/
```

```
[root@vcc-etisalat yum.repos.d]# mv media.repo redhat-ha.repo
```

```
[root@vcc-etisalat yum.repos.d]# vim redhat-ha.repo
```

[HighAvailability]

name=Red Hat Enterprise Linux 8.4.0

mediaid=1620068883.971630

baseurl=file:///mnt/

#metadata_expire=-1

gpgcheck=0

enabled=1

#cost=500

```
[root@vcc-etisalat Packages]# cat /etc/yum.repos.d/redhat-ha.repo
[HighAvailabilit]
name=Red Hat Enterprise Linux 8.4.0
mediaid=1620068883.971630
baseurl=file:///mnt/
#metadata_expire=-1
gpgcheck=0
enabled=1
#cost=500
```

```
[root@vcc-etisalat yum.repos.d]# cd /mnt/Packages/
```

```
[root@vcc-etisalat yum.repos.d]# yum localinstall *.rpm -y
```

```
[root@vcc-etisalat Packages]# yum localinstall *.rpm -y
Updating Subscription Management repositories.
Red Hat Enterprise Linux 8.4.0
Dependencies resolved.
```

			85 MB/s 507 kB	00:00
Package	Arch	Version	Repository	Size
Installing:				
awscli	noarch	1.14.50-5.el8	@commandline	1.1 M
booth	x86_64	1.0-199.1.ac1d34c.git.el8	@commandline	10 k
booth-arbitrator	noarch	1.0-199.1.ac1d34c.git.el8	@commandline	12 k
booth-core	x86_64	1.0-199.1.ac1d34c.git.el8	@commandline	108 k
booth-site	noarch	1.0-199.1.ac1d34c.git.el8	@commandline	18 k
booth-test	noarch	1.0-199.1.ac1d34c.git.el8	@commandline	70 k
clutter-bin	x86_64	0.77.1-5.el8	@commandline	34 k
clutter-cli	noarch	0.77.1-5.el8	@commandline	50 k
clutter-common	noarch	0.77.1-5.el8	@commandline	81 k
clutter-lib-ccs	noarch	0.77.1-5.el8	@commandline	18 k
clutter-lib-general	noarch	0.77.1-5.el8	@commandline	19 k
clutter-lib-pcs	noarch	0.77.1-5.el8	@commandline	19 k
corosync	x86_64	3.1.0-3.el8	@commandline	272 k
corosync-qdevice	x86_64	3.0.1-1.el8	@commandline	95 k
corosync-qnetd	x86_64	3.0.1-1.el8	@commandline	76 k
corosynclib-devel	i686	3.1.0-3.el8	@commandline	187 k
corosynclib-devel	x86_64	3.1.0-3.el8	@commandline	187 k
fence-agents-aliyun	x86_64	4.2.1-65.el8	@commandline	6.7 M
fence-agents-aws	noarch	4.2.1-65.el8	@commandline	24 k
fence-agents-azure-arm	noarch	4.2.1-65.el8	@commandline	33 k
fence-agents-gce	noarch	4.2.1-65.el8	@commandline	25 k
libknet1	i686	1.18-1.el8	@commandline	86 k
libknet1	x86_64	1.18-1.el8	@commandline	79 k
libknet1-compress-bzip2-plugin	x86_64	1.18-1.el8	@commandline	15 k
libknet1-compress-lz4-plugin	x86_64	1.18-1.el8	@commandline	16 k
libknet1-compress-lzma-plugin	x86_64	1.18-1.el8	@commandline	15 k
libknet1-compress-lzo2-plugin	x86_64	1.18-1.el8	@commandline	15 k
libknet1-compress-plugins-all	x86_64	1.18-1.el8	@commandline	11 k

Enable Services before Configuration:

```
[root@vcc-etisalat Packages]# systemctl enable pcsd
Created symlink /etc/systemd/system/multi-user.target.wants/pcsd.service →
/usr/lib/systemd/system/pcsd.service.
[root@vcc-etisalat Packages]# systemctl enable corosync
Created symlink /etc/systemd/system/multi-
user.target.wants/corosync.service →
/usr/lib/systemd/system/corosync.service.
[root@vcc-etisalat Packages]# systemctl enable pacemaker
Created symlink /etc/systemd/system/multi-
user.target.wants/pacemaker.service →
/usr/lib/systemd/system/pacemaker.service.
```

Starting PCSD Service:

```
[root@vcc-etisalat Packages]# systemctl start pcsd
```

Set HA password:

Passwd 1234 used for testing

```
[root@vcc-etisalat Packages]# passwd hacluster
Changing password for user hacluster.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
```

```
[root@vcc-etisalat Packages]# systemctl enable pcsd
Created symlink /etc/systemd/system/multi-user.target.wants/pcsd.service → /usr/lib/systemd/system/pcsd.service.
[root@vcc-etisalat Packages]# systemctl enable corosync
Created symlink /etc/systemd/system/multi-user.target.wants/corosync.service → /usr/lib/systemd/system/corosync.service.
[root@vcc-etisalat Packages]# systemctl enable pacemaker
Created symlink /etc/systemd/system/multi-user.target.wants/pacemaker.service → /usr/lib/systemd/system/pacemaker.service.
[root@vcc-etisalat Packages]# systemctl start pcsd
[root@vcc-etisalat Packages]#
[root@vcc-etisalat Packages]#
[root@vcc-etisalat Packages]#
[root@vcc-etisalat Packages]#
[root@vcc-etisalat Packages]# passwd hacluster
Changing password for user hacluster.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@vcc-etisalat Packages]# hostname
vcc-etisalat
[root@vcc-etisalat Packages]#
```

Master Server Configuration:

```
[root@vcc-etisalat Packages]# hostnamectl set-hostname VCC-ETISALAT
[root@vcc-etisalat ~]# cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4
localhost4.localhostdomain4
::1         localhost localhost.localdomain localhost6
localhost6.localhostdomain6
192.168.1.63 VCC-AIRTEL
192.168.1.53 VCC-ETISALAT
```

```
[root@vcc-etisalat ~]# pcs host auth VCC-ETISALAT VCC-AIRTEL
```

Username: hacluster

Password:

VCC-AIRTEL: Authorized

VCC-ETISALAT: Authorized

```
[root@vcc-etisalat ~]# pcs cluster setup hacluster_appserver VCC-ETISALAT
VCC-AIRTEL
```

No addresses specified for host 'VCC-ETISALAT', using 'vcc-etisalat'

No addresses specified for host 'VCC-AIRTEL', using 'vcc-airtel'

Destroying cluster on hosts: 'VCC-AIRTEL', 'VCC-ETISALAT'...

VCC-ETISALAT: Successfully destroyed cluster

VCC-AIRTEL: Successfully destroyed cluster

Requesting remove 'pcsd settings' from 'VCC-AIRTEL', 'VCC-ETISALAT'

VCC-ETISALAT: successful removal of the file 'pcsd settings'

VCC-AIRTEL: successful removal of the file 'pcsd settings'

Sending 'corosync authkey', 'pacemaker authkey' to 'VCC-AIRTEL', 'VCC-ETISALAT'

VCC-ETISALAT: successful distribution of the file 'corosync authkey'

Virtual IP Setup Document

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VCC-ETISALAT: successful distribution of the file 'pacemaker authkey'

VCC-AIRTEL: successful distribution of the file 'corosync authkey'

VCC-AIRTEL: successful distribution of the file 'pacemaker authkey'

Sending 'corosync.conf' to 'VCC-AIRTEL', 'VCC-ETISALAT'

VCC-ETISALAT: successful distribution of the file 'corosync.conf'

VCC-AIRTEL: successful distribution of the file 'corosync.conf'

Cluster has been successfully set up

```
[root@vcc-etisalat ~]# pcs cluster start --all
```

```
[root@vcc-etisalat ~]# pcs cluster enable --all
```

```
[root@vcc-etisalat ~]# pcs host auth VCC-ETISALAT VCC-AIRTEL
Username: hacluster
Password:
VCC-AIRTEL: Authorized
VCC-ETISALAT: Authorized
[root@vcc-etisalat ~]# pcs cluster setup hacluster_appserver VCC-ETISALAT VCC-AIRTEL
No addresses specified for host 'VCC-ETISALAT', using 'vcc-etisalat'
No addresses specified for host 'VCC-AIRTEL', using 'vcc-airtel'
Destroying cluster on hosts: 'VCC-AIRTEL', 'VCC-ETISALAT' ...
VCC-ETISALAT: Successfully destroyed cluster
VCC-AIRTEL: Successfully destroyed cluster
Requesting remove 'pcsd settings' from 'VCC-AIRTEL', 'VCC-ETISALAT'
VCC-ETISALAT: successful removal of the file 'pcsd settings'
VCC-AIRTEL: successful removal of the file 'pcsd settings'
Sending 'corosync authkey', 'pacemaker authkey' to 'VCC-AIRTEL', 'VCC-ETISALAT'
VCC-ETISALAT: successful distribution of the file 'corosync authkey'
VCC-ETISALAT: successful distribution of the file 'pacemaker authkey'
VCC-AIRTEL: successful distribution of the file 'corosync authkey'
VCC-AIRTEL: successful distribution of the file 'pacemaker authkey'
Sending 'corosync.conf' to 'VCC-AIRTEL', 'VCC-ETISALAT'
VCC-ETISALAT: successful distribution of the file 'corosync.conf'
VCC-AIRTEL: successful distribution of the file 'corosync.conf'
Cluster has been successfully set up.
[root@vcc-etisalat ~]# pcs cluster start --all
VCC-ETISALAT: Starting Cluster...
VCC-AIRTEL: Starting Cluster...
[root@vcc-etisalat ~]# pcs cluster enable --all
VCC-ETISALAT: Cluster Enabled
VCC-AIRTEL: Cluster Enabled
```

```
[root@vcc-etisalat ~]# pcs status cluster
```

```
[root@vcc-etisalat ~]# pcs status cluster
Cluster Status:
Cluster Summary:
* Stack: corosync
* Current DC: VCC-AIRTEL (version 2.0.5-9.el8-ba59be7122) - partition with quorum
* Last updated: Mon Feb 19 15:14:00 2024
* Last change: Mon Feb 19 15:13:54 2024 by hacluster via crmd on VCC-AIRTEL
* 2 nodes configured
* 0 resource instances configured
Node List:
* Online: [ VCC-AIRTEL VCC-ETISALAT ]

PCSD Status:
VCC-AIRTEL: Online
VCC-ETISALAT: Online
[root@vcc-etisalat ~]# pcs property set stonith-enabled=false
[root@vcc-etisalat ~]# pcs property set no-quorum-policy=ignore
[root@vcc-etisalat ~]# pcs property list
Cluster Properties:
cluster-infrastructure: corosync
cluster-name: hacluster_appserver
dc-version: 2.0.5-9.el8-ba59be7122
have-watchdog: false
no-quorum-policy: ignore
stonith-enabled: false
```

```
[root@vcc-etisalat ~]# pcs resource create virtual_ip ocf:heartbeat:IPaddr2 ip=192.168.1.73
cidr_netmask=24 op monitor interval=5s
```

```
[root@vcc-etisalat ~]# pcs constraint location virtual_ip prefers VCC-ETISALAT
```

```
[root@vcc-etisalat ~]# crm_simulate -sL
```

Current cluster status:

Online: [VCC-AIRTEL VCC-ETISALAT]

virtual_ip (ocf::heartbeat:IPaddr2): Started VCC-ETISALAT

Allocation scores:

pcmk__native__allocate: virtual_ip allocation score on VCC-AIRTEL: 0

pcmk__native__allocate: virtual_ip allocation score on VCC-ETISALAT: INFINITY

Transition Summary:

```
[root@vcc-etisalat ~]# pcs cluster stop --all
```

VCC-ETISALAT: Stopping Cluster (pacemaker)...

VCC-AIRTEL: Stopping Cluster (pacemaker)...

VCC-AIRTEL: Stopping Cluster (corosync)...

VCC-ETISALAT: Stopping Cluster (corosync)...

```
[root@vcc-etisalat ~]# pcs cluster start --all
```

VCC-ETISALAT: Starting Cluster...

VCC-AIRTEL: Starting Cluster...

```
[root@vcc-etisalat ~]# pcs status resources
```

```
* virtual_ip (ocf::heartbeat:IPaddr2):    Stopped
```

```
[root@vcc-etisalat ~]# pcs status nodes
```

Pacemaker Nodes:

Online:

Standby:

Standby with resource(s) running:

Maintenance:

Offline: VCC-AIRTEL VCC-ETISALAT

Pacemaker Remote Nodes:

Online:

Standby:

Standby with resource(s) running:

Maintenance:

Offline:

```
[root@vcc-etisalat ~]# corosync-cmapctl | grep members
```

```
runtime.members.1.config_version (u64) = 0
```

```
runtime.members.1.ip (str) = r(0) ip(192.168.1.53)
```

```
runtime.members.1.join_count (u32) = 1
```

```
runtime.members.1.status (str) = joined
```

```
runtime.members.2.config_version (u64) = 0
```

```
runtime.members.2.ip (str) = r(0) ip(192.168.1.63)
```

```
runtime.members.2.join_count (u32) = 1
```

```
runtime.members.2.status (str) = joined
```

```
[root@vcc-etisalat ~]# pcs status corosync
```

Membership information

Nodeid	Votes	Name
1	1	VCC-ETISALAT (local)
2	1	VCC-AIRTEL

```
[root@vcc-etisalat ~]# pcs cluster stop VCC-ETISALAT
```

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Telemune Support Team

VCC-ETISALAT: Stopping Cluster (pacemaker)...

VCC-ETISALAT: Stopping Cluster (corosync)...

```
[root@vcc-etisalat ~]# pcs cluster start --all
```

VCC-AIRTEL: Starting Cluster...

VCC-ETISALAT: Starting Cluster...

```
[root@vcc-etisalat ~]# pcs cluster start --all
```

VCC-ETISALAT: Starting Cluster...

VCC-AIRTEL: Starting Cluster...

```
[root@vcc-etisalat ~]# ip a
```

```
[root@vcc-etisalat ~]# pcs cluster start --all
VCC-ETISALAT: Starting Cluster ...
VCC-AIRTEL: Starting Cluster ...
[root@vcc-etisalat ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:eb:6c:31 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.53/24 brd 192.168.1.255 scope global noprefixroute ens3
        valid_lft forever preferred_lft forever
    inet 192.168.1.73/24 brd 192.168.1.255 scope global secondary ens3
        valid_lft forever preferred_lft forever
    inet6 fe80::5054:ff:feeb:6c31/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: ens8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:9d:76:7d brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.180/24 brd 192.168.122.255 scope global noprefixroute ens8
        valid_lft forever preferred_lft forever
    inet6 fe80::5304:6328:5fc5:8020/64 scope link dadfailed tentative noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fe80::6a5d:57c6:88f5:b355/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

```
[root@vcc-etisalat ~]# pcs status cluster
```

Cluster Status:

Cluster Summary:

- * Stack: corosync
- * Current DC: VCC-AIRTEL (version 2.0.5-9.el8-ba59be7122) - partition with quorum
- * Last updated: Mon Feb 19 15:36:28 2024
- * Last change: Mon Feb 19 15:16:30 2024 by root via cibadmin on VCC-ETISALAT
- * 2 nodes configured
- * 1 resource instance configured

Node List:

- * Online: [VCC-AIRTEL VCC-ETISALAT]

PCSD Status:

VCC-ETISALAT: Online

VCC-AIRTEL: Online

```
[root@vcc-etisalat ~]# pcs resource status
```

```
* virtual_ip (ocf::heartbeat:IPaddr2):    Started VCC-ETISALAT
```

```
[root@vcc-etisalat ~]# pcs status cluster
Cluster Status:
Cluster Summary:
* Stack: corosync
* Current DC: VCC-AIRTEL (version 2.0.5-9.el8-ba59be7122) - partition with quorum
* Last updated: Mon Feb 19 15:36:28 2024
* Last change: Mon Feb 19 15:16:30 2024 by root via cibadmin on VCC-ETISALAT
* 2 nodes configured
* 1 resource instance configured
Node List:
* Online: [ VCC-AIRTEL VCC-ETISALAT ]

PCSD Status:
VCC-ETISALAT: Online
VCC-AIRTEL: Online
[root@vcc-etisalat ~]# pcs resource status
* virtual_ip (ocf::heartbeat:IPaddr2):    Started VCC-ETISALAT
[root@vcc-etisalat ~]#
```

```
[root@vcc-etisalat ~]# pcs status
```

```
[root@vcc-etisalat ~]# pcs status
Cluster name: hacluster_appserver
Cluster Summary:
* Stack: corosync
* Current DC: VCC-AIRTEL (version 2.0.5-9.el8-ba59be7122) - partition with quorum
* Last updated: Mon Feb 19 15:37:55 2024
* Last change: Mon Feb 19 15:16:30 2024 by root via cibadmin on VCC-ETISALAT
* 2 nodes configured
* 1 resource instance configured

Node List:
* Online: [ VCC-AIRTEL VCC-ETISALAT ]

Full List of Resources:
* virtual_ip (ocf::heartbeat:IPaddr2):    Started VCC-ETISALAT

Daemon Status:
corosync: active/enabled
pacemaker: active/enabled
pcsd: active/enabled
[root@vcc-etisalat ~]#
```

Now, we are testing VIP application by putting root@vcc-etisalat on Standby and making vcc-airtel master and reverting back to vcc-etisalat

```
[root@vcc-etisalat ~]# ip a
```



```
[root@vcc-etisalat ~]# pcs standby VCC-ETISALAT
```

```
[root@vcc-etisalat ~]# ip a | grep ens3
```

```
[root@vcc-etisalat ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:eb:6c:31 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.53/24 brd 192.168.1.255 scope global noprefixroute ens3
        valid_lft forever preferred_lft forever
    inet 192.168.1.73/24 brd 192.168.1.255 scope global secondary ens3
        valid_lft forever preferred_lft forever
    inet6 fe80::5054:ff:feeb:6c31/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: ens8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:9d:76:7d brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.180/24 brd 192.168.122.255 scope global noprefixroute ens8
        valid_lft forever preferred_lft forever
    inet6 fe80::5304:6328:5fc5:8020/64 scope link dadfailed tentative noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fe80::6a5d:57c6:88f5:b355/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@vcc-etisalat ~]# pcs node standby VCC-ETISALAT
[root@vcc-etisalat ~]# ip a | grep ens3
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    inet 192.168.1.53/24 brd 192.168.1.255 scope global noprefixroute ens3
[root@vcc-etisalat ~]#
```

Slave Server configuration:

```
[root@vcc Packages]# hostnamectl set-hostname VCC_AIRTEL
```

```
[root@VCC-AIRTEL ~]# cat /etc/hosts
```

```
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
```

```
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
```

```
192.168.1.63 VCC-AIRTEL
```

```
192.168.1.53 VCC-ETISALAT
```

```
[root@vcc-airtel Packages]# systemctl start pcsd
```

Set HA password: Passwd 1234 used for testing

```
[root@vcc-etisalat Packages]# passwd hacluster
```

Changing password for user hacluster.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

```
[root@VCC-AIRTEL ~]# ip a
```

```
[root@VCC-AIRTEL ~]# pcs node unstandby VCC-ETISALAT
```

```
[root@VCC-AIRTEL ~]# ip a | grep ens3
```

```
[root@VCC-AIRTEL ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:ca:c1:fc brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.63/24 brd 192.168.1.255 scope global noprefixroute ens3
        valid_lft forever preferred_lft forever
    inet 192.168.1.73/24 brd 192.168.1.255 scope global secondary ens3
        valid_lft forever preferred_lft forever
    inet6 fe80::5054:ff:feca:c1fc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: ens8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:fc:3b:56 brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.190/24 brd 192.168.122.255 scope global noprefixroute ens8
        valid_lft forever preferred_lft forever
    inet6 fe80::5304:6328:5fc5:8020/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@VCC-AIRTEL ~]# pcs node unstandby VCC-ETISALAT
[root@VCC-AIRTEL ~]# ip a | grep ens3
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    inet 192.168.1.63/24 brd 192.168.1.255 scope global noprefixroute ens3
[root@VCC-AIRTEL ~]#
```

Checking VIP is up at vcc-etisalat or not

```

[root@vcc-etisalat ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:eb:6c:31 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.53/24 brd 192.168.1.255 scope global noprefixroute ens3
        valid_lft forever preferred_lft forever
    inet 192.168.1.73/24 brd 192.168.1.255 scope global secondary ens3
        valid_lft forever preferred_lft forever
    inet6 fe80::5054:ff:feeb:6c31/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: ens8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 52:54:00:9d:76:7d brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.180/24 brd 192.168.122.255 scope global noprefixroute ens8
        valid_lft forever preferred_lft forever
    inet6 fe80::5304:6328:5fc5:8020/64 scope link dadfailed tentative noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fe80::6a5d:57c6:88f5:b355/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@vcc-etisalat ~]#

```