

**\*\*\*\*\*Firewalld Basic commands \*\*\*\*\*****How do you check the firewalld status.**

```
systemctl status firewalld  
systemctl start firewalld  
systemctl enable firewalld
```

**How do you check the current configuration?**

```
firewall-cmd --list-all --zone=[zone-name]  
firewall-cmd --list-all --zone=public
```

**How do you check the current services.**

```
firewall-cmd --list-services
```

**how do you set a zone active**

```
firewall-cmd --set-default-zone [zone-name]  
firewall-cmd --set-default-zone=public
```

**How do you check default-zone**

```
firewall-cmd --get-default-zone [zone-name]  
firewall-cmd --get-default-zone
```

**How do you check the ports open or not.**

```
firewall-cmd --list-ports
```

**How do you open a port?**

```
1)Open http port  
firewall-cmd --zone=public --add-service=http  
firewall-cmd --zone=public --add-port=80/tcp
```

**2)Open https port**

```
firewall-cmd --zone=public --add-service=https  
firewall-cmd --zone=public --add-port=443/tcp
```

**How do you close a port?**

```
firewall-cmd --zone=public --remove-service=http  
firewall-cmd --zone=public --remove-port=80/tcp
```

**How do you make the firewall settings persistent?**

```
firewall-cmd --permanent --zone=public --add-port=80/tcp
```

**How do you reload the configuration?**

```
firewall-cmd --reload
```

## How do you change interfaces

```
firewall-cmd --zone=public --change-interface=ens33
```

## How do you add service in a specific zone

```
firewall-cmd --add-service=ssh --zone=private
```

## How do you remove service in a specific zones

```
firewall-cmd --remove-service=http --zone=private
```

## How do you get running services in a specific zones.

```
firewall-cmd --get-services | grep ssh
```

## How do you check particular zone list all parameter.

```
firewall-cmd --zone=private --list-all
```

## How do you check active zone

```
firewall-cmd --get-active-zone
```

## How do you add new zone.

```
firewall-cmd --permanent --new-zone=[zone-name]
```

e.g firewall-cmd --permanent --new-zone=private

## How do you check interfaces in specific zone

```
firewall-cmd --zone=public --list-interfaces
```

## How do you add multiple port in a specific zones

```
firewall-cmd --add-port={443/tcp,53/udp,3336/tcp} --zone=hpcs
```

## How do you add or remove range of port in a specific zones

```
firewall-cmd --add-port=2500-3000/tcp --zone=hpcs
```

```
firewall-cmd --remove-port=2500-3000/tcp --zone=hpcs
```

## How do you add protocol

```
firewall-cmd --add-protocol=icmp --zone=hpcs
```

```
firewall-cmd --remove-protocol=icmp --zone=hpcs
```

## How do you add icmp block on that zone (Go to this specific zone)

```
firewall-cmd --add-icmp-block=echo-request --permanent;
```

```
firewall-cmd --reload
```

## How do you remove icmp block from that zone(Go to this specific zone)

```
firewall-cmd --remove-icmp-block=echo-request --permanent;
```

```
firewall-cmd --reload
```

**How do you query icmp block from that zone**

```
firewall-cmd --query-icmp-block=echo-request --permanent;  
firewall-cmd --query-icmp-block=echo-reply --permanent;  
firewall-cmd --reload
```

**How do you block ping**

```
firewall-cmd --add-icmp-block echo-request --zone=hpcs
```

**How do you unblock ping from all networks**

```
firewall-cmd --remove-icmp-block echo-request --zone=hpcs
```

**How do you check if ping is blocked or not from all networks**

```
firewall-cmd --query-icmp-block echo-request --zone=hpcs
```

**How do you show all rich rules for specified zone**

```
firewall-cmd --permanent --zone=private --list-rich-rules
```

**How do you write rich rule for ssh with log prefix and level**

```
firewall-cmd --add-rich-rule='rule family=ipv4 source address=192.168.1.0/24  
service name=ssh log prefix=" Allow SSH Access" level="notice" accept'
```

OR

**How do you write rich rule for ssh without log prefix and level**

```
firewall-cmd --add-rich-rule='rule family=ipv4 source address=192.168.1.0/24  
service name=ssh accept'
```

OR

```
firewall-cmd --permanent --zone=testing --add-rich-rule='rule family=ipv4 source  
address=10.0.0.0/24 destination address=192.168.0.10/32 port port=8080-8090  
protocol=tcp accept'
```

**How do you Allow FTP connection only.**

```
firewall-cmd --add-rich-rule='rule family=ipv4 source address=192.168.1.2/32 port  
port=21 protocol=tcp accept'
```

**How do you reject ping requests from all hosts with error message.**

```
firewall-cmd --add-rich-rule='rule protocol value=icmp reject'
```

**How do you open a port for web access**

```
firewall-cmd --zone=private --add-port=80/http --permanent  
firewall-cmd --zone=private --add-port=443/https --permanent  
firewall-cmd --reload
```