Bit

Firewall Basic commands

FirewallD Basic Commands

How do you check the firewalld status?
 systemctl status firewalld | grep active

2. To start the service and enable firewalld on boot:

systemctl start firewalld

3. To stop and disable it: systematl stop firewalld

```
↑ root@bharatitgyan:~

[root@bharatitgyan ~]# systemctl disable firewalld

Removed symlink /etc/systemd/system/multi-user.target.wants/firewalld.s

ervice.

Removed symlink /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.s

ervice.

[root@bharatitgyan ~]# |
```

4. How do you check the current configuration?

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



firewall-cmd --list-all --zone=public

```
root@bharatitgyan:~
root@bharatitgyan ~]# firewall-cmd --list-all --zone=public
public (active)
 target: default
 icmp-block-inversion: no
 interfaces: ens33
 sources:
 services: dhcpv6-client ssh
 ports:
 protocols:
 masquerade: no
 forward-ports:
 source-ports:
 icmp-blocks:
 rich rules:
 root@bharatitgyan ~]#
```

5. How do you check the current services?

firewall-cmd --list-services

6. How do you set a default zone in active?

firewall-cmd --set-default-zone [zone-name] firewall-cmd --set-default-zone=home

7. How do you check default-zone?

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



8. How do you list all zones?

firewall-cmd --list-all-zones

```
root@bharatitgyan:~
                                                                root@bharatitgyan ~]#
root@bharatitgyan ~]# firewall-cmd --list-all-zones
block
 target: %%REJECT%%
 icmp-block-inversion: no
 interfaces:
 sources:
 services:
 ports:
 protocols:
 masquerade: no
 forward-ports:
 source-ports:
 icmp-blocks:
 rich rules:
dmz
 target: default
  icmp-block-inversion: no
  interfaces:
```

9. How do you check the ports open or not?

firewall-cmd --list-ports

10. How do you open a port?

1) Open http port

firewall-cmd --zone=public --add-service=http success

```
orot@bharatitgyan:~

[root@bharatitgyan ~]# firewall-cmd --zone=public --add-service=http ^success
[root@bharatitgyan ~]# |
```

firewall-cmd --zone=public --add-port=80/tcp success

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Firewall Basic commands

2) Open https port

firewall-cmd --zone=public --add-service=https success

firewall-cmd --zone=public --add-port=443/tcp success

11. How do you close a port?

firewall-cmd --zone=public --remove-service=http success

firewall-cmd --zone=public --remove-port=80/tcp success

12. How do you make the firewall settings persistent?

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

13. How do you reload the configuration?

firewall-cmd -reload

```
    root@bharatitgyan:~
    [root@bharatitgyan ~]# firewall-cmd --reload
    success
[root@bharatitgyan ~]# |
```



14. How do you change interfaces?

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

15. How do you add service in a specific zone?

firewall-cmd --add-service=ssh --zone=hpcsa

```
    root@bharatitgyan:~
    [root@bharatitgyan ~]# firewall-cmd --add-service=ssh --zone=hpcsa
success
[root@bharatitgyan ~]# |
```

16. How do you remove service in specific zones?

firewall-cmd --remove-service=http --zone=hpcsa

17. How do you get running services in specific zones?

firewall-cmd --get-services | grep ssh

```
[root@bharatitgyan- ]# firewall-cmd --get-services | grep ssh RH-Satellite-6 RH-Satellite-6-capsule amanda-client amanda-k5-client amqp a pcupsd audit bacula bacula-client bgp bitcoin bitcoin-rpc bitcoin-tes the bitcoin-testnet-rpc ceph ceph-mon cfengine condor-collector ctdb dhcp dhcpv6 dhcpv6-client distcd dns docker-registry docker-swarm dropbox-lansync elasticsearch etcd-client etcd-server finger freeipa-ldap freeipa-ldaps freeipa-replication freeipa-trust ftp ganglia-client ganglia-master git gre high-availability http https imap imaps ipp ipp-client ipsec irc ircs iscsi-target isns jenkins kadmin kerberos kibana klogin kpasswd kprop kshell ldap ldaps libvirt libvirt-tls lightning-network llmnr managesieve matrix mdns minidlna mongodb mosh mountd mqtt mqtt-tls ms-wbt mssql murmur mysql nfs nfs3 nmea-0183 nrpe ntp nut openvpn ovirt-imageio ovirt-storageconsole ovirt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgresql privo xy proxy-dhcp ptp pulseaudio puppetmaster quassel radius redis rpc-bind rsh rsyncd rtsp salt-master samba samba-client samba-dc sane sip sips slp smtp smtp-submission smtps snmp snmptrap spideroak-lansync squid ssh steam-stre aming svdrp svn syncthing syncthing-gui synergy syslog syslog-tls telnet tf tp tftp-client tinc tor-socks transmission-client upnp-client vdsm vnc-serv er wbem-http wbem-https wsman wsmans xdmcp xmpp-bosh xmpp-client xmpp-local xmpp-server zabbix-agent zabbix-server
```



18. How do you check particular zone list all parameter?

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

```
root@bharatitgyan:
                                                                             [root@bharatitgyan ~]# firewall-cmd --zone=private --list-all
private
 target: default
 interfaces:
 sources:
 services:
 ports:
 protocols:
 masquerade: no
 forward-ports:
 source-ports:
 icmp-blocks:
 rich rules:
root@bharatitgyan ~]#
```

19. How do you check active zone?

firewall-cmd --get-active-zone

20. How do you add new zone?

firewall-cmd --permanent --new-zone=[zone-name] e.g firewall-cmd --permanent --new-zone=BiG

21. How do you check interfaces in specific zone?

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

22. How do you add multiple port in a specific zones?

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



23. How do you add or remove range of port in specific zones?

firewall-cmd --add-port=2500-3000/tcp --zone=hpcsa firewall-cmd --remove-port=2500-3000/tcp --zone=hpcsa

```
orot@bharatitgyan:~

[root@bharatitgyan ~]# firewall-cmd --add-port=2500-3000/tcp --zone=hpcsa resuccess
[root@bharatitgyan ~]# firewall-cmd --remove-port=2500-3000/tcp --zone=hpcsa success
[root@bharatitgyan ~]# |
```

24. How do you add protocol?

firewall-cmd --add-protocol=icmp --zone=hpcsa firewall-cmd --remove-protocol=icmp --zone=hpcsa

25. 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

26. 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

```
    root@bharatitgyan ~]# firewall-cmd --remove-icmp-block=echo-request --permanent; ^
success
[root@bharatitgyan ~]# firewall-cmd --reload;
success
[root@bharatitgyan ~]# |
```

27. 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

```
orot@bharatitgyan:~

[root@bharatitgyan ~]# firewall-cmd --query-icmp-block=echo-request --permanent; no

[root@bharatitgyan ~]# firewall-cmd --query-icmp-block=echo-reply --permanent; no

[root@bharatitgyan ~]# firewall-cmd --reload

success

[root@bharatitgyan ~]# |
```



28. How do you block ping?

firewall-cmd --add-icmp-block echo-request --zone=hpcsa

29. How do you unblock ping from all networks?

firewall-cmd --remove-icmp-block echo-request --zone=hpcsa

```
oroot@bharatitgyan:~

[root@bharatitgyan ~]# firewall-cmd --remove-icmp-block echo-request --zone=hpcsa^success
[root@bharatitgyan ~]# |
```

30. How do you check if ping is blocked or note from all networks?

firewall-cmd --query-icmp-block echo-request --zone=hpcsa

```
    root@bharatitgyan:~
    [root@bharatitgyan ~]# firewall-cmd --query-icmp-block echo-request --zone=hpcsa ^
no
[root@bharatitgyan ~]# |
```

31. How do you show all rich rules for specified zone?

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

32. 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'

```
orot@bharatitgyan:~

[root@bharatitgyan ~]# firewall-cmd --add-rich-rule='rule family=ipv4 source addr^ess=192.168.1.0/24 service name=ssh log prefix="Allow SSH Access" level="notice" accept' success
[root@bharatitgyan ~]# |
```

OR

33. 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'



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'

34. 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'

```
♦ root@bharatitgyan:~
[root@bharatitgyan ~]# firewall-cmd --add-rich-rule='rule family=ipv4 source address=^192.168.1.2/32 port port=21 protocol=tcp accept' success
[root@bharatitgyan ~]# |
```

35. How do you reject ping requests from all hosts with error message? firewall-cmd --add-rich-rule='rule protocol value=icmp reject'

36. How do you open a port for web access?

firewall-cmd --zone=private --add-port=80/tcp --permanent firewall-cmd --zone=private --add-port=443/tcp --permanent firewall-cmd -reload