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1. firewalld

가 • Linux ipchains 2.4 2.2 가 가 netfilter iptables netfilter iptables 가 iptables 가 RHEL/CentOS 7 firewalld iptables firewall-cmd, GUI firewall-config

• firewall-cmd firewalld firewall-cmd -reload . -permanent 가 firewall-cmd -reload

• firewalld 가

가

	firewall-cmd	firewall-cmd -permanent
(firewall-cmd -reload)		

fireall-cmd 가 firewall-cmd -reload
 firewall-cmd -permanent 가 firewall-cmd -reload

2.

```
# ( running, not running )

[root@dns ~] firewall-cmd --state #

#not running

[root@dns ~] systemctl enable firewalld # //

[root@dns ~] systemctl start firewalld # firewalld .
```

3.

```
[root@dns ~] yum install firewalld #
[root@dns ~] systemctl start firewalld #
[root@dns ~] systemctl enable firewalld #
```

4. **IP**

IP

```
#IP
[root@dns ~] firewall-cmd --permanent --add-source=10.10.10.10
#IP
[root@dns ~] firewall-cmd --permanent --remove-source=10.10.10.10
```

IP

```
#IP
[root@dns ~] firewall-cmd --permanent --add-source=10.10.10.0/24

#IP
[root@dns ~] firewall-cmd --permanent --remove-source=10.10.10.0/24
```

• /24 IP 10.10.10.0 10.10.10.255

```
#
[root@dns ~] firewall-cmd --permanent --add-port=80/tcp
#
[root@dns ~] firewall-cmd --permanent --remove-port=80/tcp
```

```
#
[root@dns ~] firewall-cmd --permanent --add-port=1000-2000/tcp
#
[root@dns ~] firewall-cmd --permanent --remove-port=1000-2000/tcp
```

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IP

```
#IP
[root@dns ~] firewall-cmd --permanent --add-rich-rule='rule family="ipv4"
source address=10.10.10.10 port port="80" protocol="tcp" accept'

#IP
[root@dns ~] firewall-cmd --permanent --remove-rich-rule='rule family="ipv4"
source address=10.10.10.10 port port="80" protocol="tcp" accept'
```

ΙP

```
#IP
[root@dns ~] firewall-cmd --permanent --add-rich-rule='rule family="ipv4"
source address=10.10.10.10 drop'

#IP
[root@dns ~] firewall-cmd --permanent --remove-rich-rule='rule family="ipv4"
source address=10.10.10.10 drop'
```

Rule

```
# Rule
[root@dns ~] firewall-cmd --reload

# Rule
[root@dns ~] firewall-cmd --list-all
```

5. Network Zone

firewalld

가 zone

• zone firewall-cmd —get-zones

```
[root@dns ~] sudo firewall-cmd --get-zones
work drop internal external trusted home dmz public block
```

```
• zone zone , zone , zone —list-all-zones zone
```

```
[root@dns ~] sudo firewall-cmd --list-all-zones
dmz
target: default
icmp-block-inversion: no
interfaces:
sources:
services: ssh
ports:
protocols:
masquerade: no
forward-ports:
sourceports:
icmp-blocks:
rich rules:
internal
target: default
icmp-block-inversion: no
interfaces:
sources:
services: dhcpv6-client mdns samba-client ssh
ports:
protocols:
masquerade: no
forward-ports:
sourceports:
icmp-blocks:
rich rules:
```

```
    zone services zone
        , dmz ssh , internal dhcpv6-client, mdns
    zone —get-active-zone
    zone public .(default)
```

```
[root@dns ~] firewall-cmd --get-active-zone

public
interfaces: eno0
```

(--list-all)

-list-all

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dmz 10022 port가

[root@dns ~] sudo firewall-cmd --list-all

dmz (active)
target: default
icmp-block-inversion: no
interfaces: enp5s0f0 enp5s0f1
sources:
services: ssh http https
ports: 10022/tcp 2120-2121/tcp 20/tcp 2120-2142/tcp 10000/tcp

protocols:
masquerade: no
forward-ports:
source-ports:
icmp-blocks:
rich rules:

-set-default-zone={ZONE_NAME}dmz

[root@dns ~] firewall-cmd --set-default-zone=dmz

firewalld zone —new-zone
 zone . webserver

[root@dns ~] firewall-cmd --permanent --new-zone=webserver

• . —reload firewalld .

6.

firewalld-get-services

[root@dns ~] firewall-cmd --get-services
RH-Satellite-6 RH-Satellite-6-capsule amanda-client amanda-k5-client amap

amgps apcupsd audit bacula bacula-client bgp bitcoin bitcoin-rpc bitcointestnet bitcoin-testnet-rpc ceph ceph-mon cfengine condor-collector ctdb dhcp dhcpv6 dhcpv6-client distcc dns docker-registry docker-swarm dropboxlansync elasticsearch etcd-client etcd-server finger freeipa-ldap freeipaldaps 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 ovirtstorageconsole ovirt-vmconsole plex pmcd pmproxy pmwebapi pmwebapis pop3 pop3s postgresql privoxy proxy-dhcp ptp pulseaudio puppetmaster quassel radius redis rpc-bind rsh rsyncd rtsp salt-master samba samba-client sambadc sane sip sips slp smtp smtp-submission smtps snmp snmptrap spideroaklansync squid **ssh** steam-streaming svdrp **svn** syncthing syncthing-gui synergy syslog syslog-tls telnet tftp tftp-client tinc tor-socks transmission-client upnp-client vdsm vnc-server wbem-http wbem-https wsman wsmans xdmcp xmppbosh xmpp-client xmpp-local xmpp-server zabbix-agent zabbix-server

```
가
```

```
• http(80), https(443) —add-service=SERVICENAME

7 .—add-service

http https .

[root@dns ~] firewall-cmd --permanent --zone=webserver --add-service=http

[root@dns ~] firewall-cmd --permanent --zone=webserver --add-service=http
```

```
• -remove-service=SERVICENAME . http/https
```

```
[root@dns \sim] firewall-cmd --permanent --zone=webserver --remove-service=http [root@dns \sim] firewall-cmd --permanent --zone=webserver --remove-service=https
```

Tip

```
firewall-cmd --state #
firewall-cmd --get-zones # Zone
firewall-cmd --get-default-zone # Zone
```

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```
firewall-cmd --list-all # // /
firewall-cmd --reload #
```

Troubleshooting

Failed to restart firewalld.service: Unit is masked.

```
• mask 가 가 , , 가 firewalld가가 restart . , unmask .
```

```
[root@dns ~] systemctl unmask firewalld
```

• firewall-cmd error on polkit

Ref

- firewalld
- [Linux] firewalld
- [CentOS 7] Firewalld
- CentOS 7 (Firewall)
- [CentOS 7] firewall-cmd

, linux, centos, firewall, firewalld,

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