

# 1. firewalld

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

- firewall-cmd firewalld
- firewall-cmd firewall-cmd
- firewall-cmd -reload 가
- firewall-cmd -permanent 가
- firewall-cmd -reload
- firewalld 가

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

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

## 2.

```
# ( running, not running )
[root@dns ~] firewall-cmd --state #

#not running
[root@dns ~] systemctl enable firewalld # 가
[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
```

# 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'
```

# IP

```
#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

- firewallld 가 zone
- zone firewall-cmd -get-zones

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

- zone -list-all-zones zone , zone 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

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:
```

- `firewall-cmd --set-default-zone={ZONE_NAME}`  
dmz

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

- `firewall-cmd --zone={ZONE_NAME} --new-zone={NEW_ZONE_NAME}`  
zone webserver

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

- `firewall-cmd --reload`  
firewalld

## 6.

- `firewall-cmd --get-services`

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



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

## Troubleshooting

### Failed to restart firewalld.service: Unit is masked.

- mask 가 가 , ,가 firewalld가 가 restart  
unmask .

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

- [firewall-cmd error on polkit](#)

## Ref

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

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