

Firewall

```
[root@sakshi ~]# yum install firewalld -y
CentOS Stream 9 - BaseOS                               3.2 kB/s | 2.2 kB    00:00
CentOS Stream 9 - BaseOS                               1.7 MB/s | 8.8 MB    00:05
CentOS Stream 9 - AppStream                             6.7 kB/s | 2.3 kB    00:00
CentOS Stream 9 - AppStream                             2.5 MB/s | 24 MB     00:09
CentOS Stream 9 - Extras packages                       13 kB/s | 5.5 kB     00:00
tets                                                     2.9 MB/s | 3.0 kB     00:00
Package firewalld-1.3.4-9.el9.noarch is already installed.
Dependencies resolved.
=====
Package                        Architecture      Version           Repository        Size
=====
Upgrading:
firewalld                     noarch            1.3.4-15.el9      baseos            536 k
firewalld-filesystem          noarch            1.3.4-15.el9      baseos            9.9 k
python3-firewall              noarch            1.3.4-15.el9      baseos            394 k
=====
Transaction Summary
=====
Upgrade 3 Packages

Total download size: 939 k
Downloading Packages:
(1/3): firewalld-filesystem-1.3.4-15.el9.noarch.rpm      5.9 kB/s | 9.9 kB    00:01
(2/3): python3-firewall-1.3.4-15.el9.noarch.rpm          179 kB/s | 394 kB    00:02
(3/3): firewalld-1.3.4-15.el9.noarch.rpm                 226 kB/s | 536 kB    00:02
-----
Total                                                    354 kB/s | 939 kB    00:02
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.

complete:
[root@sakshi ~]# rpm -qa | grep firewalld
firewalld-filesystem-1.3.4-15.el9.noarch
firewalld-1.3.4-15.el9.noarch
[root@sakshi ~]#
```

Check port number of httpd:

```
root@sakshi:~ — vim /etc/httpd/conf/httpd.conf
# configuration, error, and log files are kept.
#
# Do not add a slash at the end of the directory path. If you point
# ServerRoot at a non-local disk, be sure to specify a local disk on the
# Mutex directive, if file-based mutexes are used. If you wish to share the
# same ServerRoot for multiple httpd daemons, you will need to change at
# least PidFile.
#
ServerRoot "/etc/httpd"
#
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, instead of the default. See also the VirtualHost
# directive.
#
# Change this to Listen on a specific IP address, but note that if
# httpd.service is enabled to run at boot time, the address may not be
# available when the service starts. See the httpd.service(8) man
# page for more information.
#
#listen 12.34.56.78:80
Listen 80
#
# Dynamic Shared Object (DSO) Support
#
# To be able to use the functionality of a module which was built as a DSO you
# have to place corresponding 'LoadModule' lines at this location so the
# directives contained in it are actually available before they are used.
# Statically compiled modules (those listed by 'httpd -l') do not need
# to be loaded here.
#
# Example:
# LoadModule foo_module modules/mod_foo.so
#
#include conf.modules.d/*.conf
#
# If you wish httpd to run as a different user or group, you must run
# httpd as root initially and it will switch.
#
```

Machine 1:


```
[root@sakshi ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3 enp0s8
  sources:
  services: cockpit dhcpv6-client ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@sakshi ~]# firewall-cmd --list-services
cockpit dhcpv6-client ssh
```

```
[root@sakshi ~]# firewall-cmd --add-service=http --permanent
success
[root@sakshi ~]# firewall-cmd --reload
success
[root@sakshi ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3 enp0s8
  sources:
  services: cockpit dhcpv6-client http ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@sakshi ~]#
```

Machine 2:

root@sakshi ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
4 bytes from 8.8.8.8: icmp_seq=1 ttl=255 time=87.1 ms
4 bytes from 8.8.8.8: icmp_seq=2 ttl=255 time=93.3 ms
4 bytes from 8.8.8.8: icmp_seq=3 ttl=255 time=84.4 ms
4 bytes from 8.8.8.8: icmp_seq=4 ttl=255 time=79.5 ms
4 bytes from 8.8.8.8: icmp_seq=5 ttl=255 time=120 ms
4 bytes from 8.8.8.8: icmp_seq=6 ttl=255 time=97.4 ms
C
-- 8.8.8.8 ping statistics ---
 packets transmitted, 6 received, 0% packet loss, time 5010ms
 tt min/avg/max/mdev = 79.463/93.699/120.472/13.311 ms
root@sakshi ~]# ping 192.168.0.3
PING 192.168.0.3 (192.168.0.3) 56(84) bytes of data.
4 bytes from 192.168.0.3: icmp_seq=1 ttl=64 time=1.59 ms
4 bytes from 192.168.0.3: icmp_seq=2 ttl=64 time=0.731 ms
4 bytes from 192.168.0.3: icmp_seq=3 ttl=64 time=0.799 ms
4 bytes from 192.168.0.3: icmp_seq=4 ttl=64 time=1.48 ms
C
-- 192.168.0.3 ping statistics ---
 packets transmitted, 4 received, 0% packet loss, time 3045ms
 tt min/avg/max/mdev = 0.731/1.150/1.591/0.387 ms
root@sakshi ~]# ping 192.168.0.2
PING 192.168.0.2 (192.168.0.2) 56(84) bytes of data.
4 bytes from 192.168.0.2: icmp_seq=1 ttl=64 time=0.100 ms
4 bytes from 192.168.0.2: icmp_seq=2 ttl=64 time=0.069 ms
4 bytes from 192.168.0.2: icmp_seq=3 ttl=64 time=0.128 ms
4 bytes from 192.168.0.2: icmp_seq=4 ttl=64 time=0.115 ms
C
-- 192.168.0.2 ping statistics ---
 packets transmitted, 4 received, 0% packet loss, time 3098ms
 tt min/avg/max/mdev = 0.069/0.103/0.128/0.022 ms
root@sakshi ~]# curl 192.168.0.3
h1>Hello, Mentore Solution </h1>

root@sakshi ~]#

Machine 1:

```
[root@sakshi ~]# firewall-cmd --remove-service=http --permanent  
success  
[root@sakshi ~]# firewall-cmd --reload  
success  
[root@sakshi ~]#
```