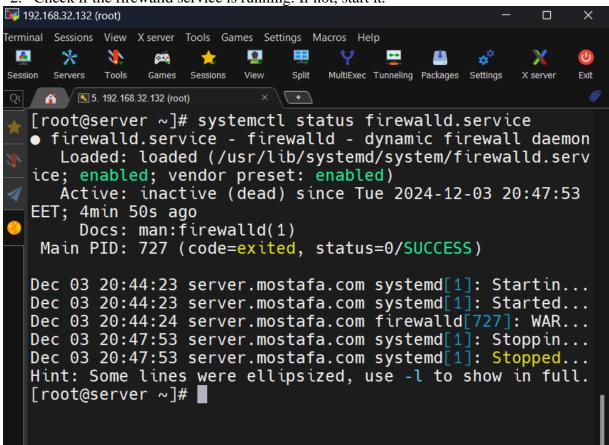
1. Configure your system so that the iptables and ip6tables services will not be accidentally started by an administrator.

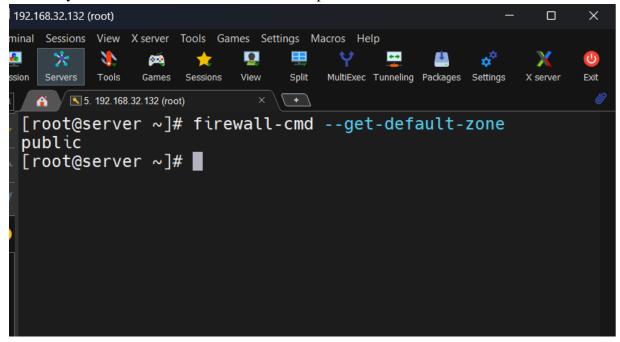
```
[root@server ~]# systemctl status iptables
iptables.service - IPv4 firewall with iptables
   Loaded: loaded (/usr/lib/systemd/system/iptables.s
ervice; enabled; vendor preset: disabled)
   Active: active (exited) since Tue 2024-12-03 20:47
:53 EET; 1min 21s ago
Main PID: 1758 (code=exited, status=0/SUCCESS)
   CGroup: /system.slice/iptables.service
Dec 03 20:47:53 server.mostafa.com systemd[1]: Sta...
Dec 03 20:47:53 server.mostafa.com iptables.init[1758
Dec 03 20:47:53 server.mostafa.com systemd[1]: Sta...
Hint: Some lines were ellipsized, use -l to show in f
ull.
[root@server ~]# systemctl disable iptables
Removed symlink /etc/systemd/system/basic.target.want
s/iptables.service.
[root@server ~]# systemctl status iptables
iptables.service - IPv4 firewall with iptables
   Loaded: loaded (/usr/lib/systemd/system/iptables.s
ervice; disabled; vendor preset: disabled)
   Active: active (exited) since Tue 2024-12-03 20:47
:53 EET; 1min 45s ago
Main PID: 1758 (code=exited, status=0/SUCCESS)
  CGroup: /system.slice/iptables.service
Dec 03 20:47:53 server.mostafa.com systemd[1]: Sta...
Dec 03 20:47:53 server.mostafa.com iptables.init[1758
1: ...
Dec 03 20:47:53 server.mostafa.com systemd[1]: Sta...
```

```
[root@server ~]# systemctl status ip6tables
ip6tables.service - IPv6 firewall with ip6tables
  Loaded: loaded (/usr/lib/systemd/system/ip6tables.serv
ice; enabled; vendor preset: disabled)
   Active: active (exited) since Tue 2024-12-03 20:48:35
EET: 1min 58s ago
Main PID: 1861 (code=exited, status=0/SUCCESS)
Dec 03 20:48:35 server.mostafa.com systemd[1]: Startin...
Dec 03 20:48:35 server.mostafa.com ip6tables.init[1861]:
Dec 03 20:48:35 server.mostafa.com systemd[1]: Started...
Hint: Some lines were ellipsized, use -l to show in full.
[root@server ~]# systemctl disable ip6tables
Removed symlink /etc/systemd/system/basic.target.wants/ip
6tables.service.
[root@server ~]# systemctl status ip6tables
ip6tables.service - IPv6 firewall with ip6tables
   Loaded: loaded (/usr/lib/systemd/system/ip6tables.serv
ice; disabled; vendor preset: disabled)
   Active: active (exited) since Tue 2024-12-03 20:48:35
EET; 2min 11s ago
Main PID: 1861 (code=exited, status=0/SUCCESS)
Dec 03 20:48:35 server.mostafa.com systemd[1]: Startin...
Dec 03 20:48:35 server.mostafa.com ip6tables.init[1861]:
Dec 03 20:48:35 server.mostafa.com systemd[1]: Started...
Hint: Some lines were ellipsized, use -l to show in full.
[root@server ~]#
```

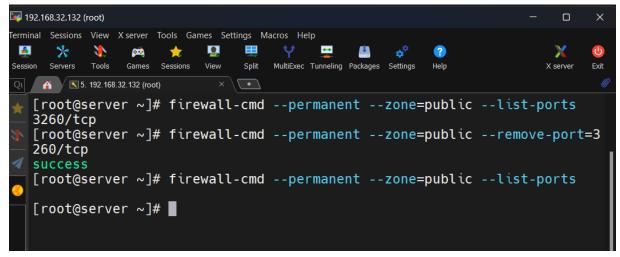
2. Check if the firewalld service is running. If not, start it.



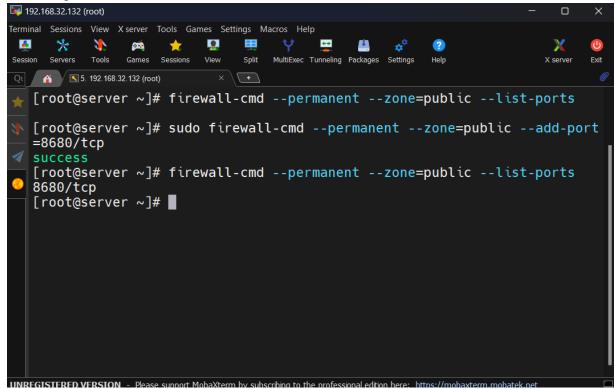
3. Verify that the default firewall zone is set to public.



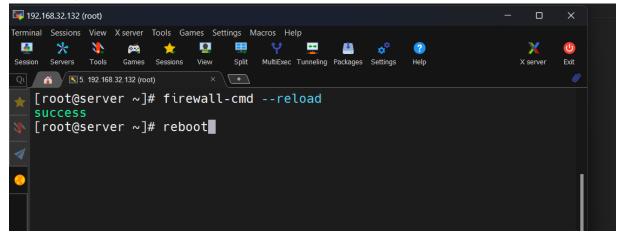
4. Verify that there are no unwanted ports open in the permanent configuration for the public zone.



5. Add port 8680/TCP to the permanent configuration for the public zone. Verify your configuration.



6. Reboot your serverX machine. (For a quick test, you can also use sudo _firewall-cmd -- reload.)



7. add a rule that only allows access to the sshd service from one subnet only

```
192.168.32.132 (root)
                                                                          Terminal Sessions View X server Tools Games Settings Macros Help
           *
                           *
                                                          ?
                                                                         X
Session Servers Tools
               Games Sessions
                          View
                                    MultiExec Tunneling Packages Settings
                                                         Help
                                Split
                              \ ( + )
Qt S. 192.168.32.132 (root)
[root@server ~]# firewall-cmd --permanent --zone=public --add-rich-rul
   ='rule family="ipv4" source address="192.168.32.0" service name="ssh"
🚺 ccept'
   success
[root@server ~]# firewall-cmd --permanent --zone=public --list-ports
   8680/tcp
   [root@server ~]# firewall-cmd --permanent --zone=public --list-
   --list-all
                           --list-ports
                                                   --list-source-ports
   --list-forward-ports --list-protocols
                                                   --list-sources
   --list-icmp-blocks --list-rich-rules
   --list-interfaces
                           --list-services
   [root@server ~]# firewall-cmd --permanent --zone=public --list-all
   public
     target: default
     icmp-block-inversion: no
     interfaces:
     sources:
     services: dhcpv6-client ftp http https ssh
     ports: 8680/tcp
     protocols:
     masquerade: no
     forward-ports:
     source-ports:
     icmp-blocks:
     rich rules:
            rule family="ipv4" source address="192.168.32.0" service name=
   ssh" accept
   [root@server ~]# ■
```

8. add a rule that only allows access to the sshd service from one ip only

