• Set Up a Firewall with UFW on Ubuntu 20.04

UFW is installed by default on Ubuntu. If it has been uninstalled for some reason, you can install it with this command:

```
root@server:/home/arash# apt install ufw
Reading package lists... Done
Building dependency tree
Reading state information... Done
ufw is already the newest version (0.36-6ubuntu1).
ufw set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

Check the current status of UFW using the terminal command below:

```
root@server:/home/arash# ufw status
Status: inactive
root@server:/home/arash#
```

The SSH daemon listens on port 32445, enter the following command to allow connections on that port:

```
root@server:/home/arash# ufw allow 32445/tcp
Rules updated
Rules updated (v6)
root@server:/home/arash#
```

Now that the firewall is configured to allow incoming SSH connections, you can enable it.

```
root@server:/home/arash# ufw enable
Firewall is active and enabled on system startup
```

Now i'm going to check the status of ufw.

```
root@server:/home/arash# ufw status verbose
Status: active
Logging: on (low)
Default: deny (incoming), allow (outgoing), disabled (routed)
New profiles: skip
```

```
To Action From

32445/tcp ALLOW IN Anywhere
32445/tcp (v6) ALLOW IN Anywhere (v6)

root@server:/home/arash#
```

Stop the built-in SSH and remove it, then rebbot the server to make sure everything works.

```
root@server:/home/arash# systemctl stop ssh
root@server:/home/arash#
```

I remove the open-SSH server.

```
root@server:/home/arash# apt remove openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
libwrap0 openssh-sftp-server ssh-import-id
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
openssh-server
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 1,527 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 71668 files and directories currently installed.
Removing openssh-server (1:8.2p1-4ubuntu0.3) ...
Processing triggers for man-db (2.9.1-1) ...
root@server:/home/arash#
```

Now i try to login to server with SSH built-in and You can see that the SSH built-in port is removed.

```
46704@Lenovo5 MINGW64 ~
$ ssh arash@192.168.68.123
ssh: connect to host 192.168.68.123 port 22: Connection timed out
```

Reboot the server to check that everything is working .

```
root@server:/home/arash# shutdown -r now
```

root@server:/home/arash#

Try to logging again from client side to server side.

46704@Lenovo5 MINGW64 ~

\$ ssh -p 32445 arash@192.168.68.123

arash@192.168.68.123's password:

arash@server:~\$