Task 2: Basic Firewall Configuration with UFW

FOR ENABLINE UFW AND DENYING SSH

Objective: Set up a basic firewall using **UFW** (Uncomplicated Firewall) on a Linux system.

- **Tools**: UFW (Uncomplicated Firewall)

Working:
1.Install UFW on my system


```
saurav@saurav-VirtualBox:~$ sudo apt update
sudo apt install ufw -y
[sudo] password for saurav:
Sorry, try again.
[sudo] password for saurav:
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ufw is already the newest version (0.36.2-6).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
saurav@saurav-VirtualBox:~$
```

By using command: **sudo apt update** for updating package and
Sudo apt install ufw -y for installing firewall.

Step 2 – Enable the Firewall

```
saurav@saurav-VirtualBox:~$ sudo ufw enable
Firewall is active and enabled on system startup
```

By using command: **sudo ufw enable** , it will enable the firewall for protection

Step 3 – Allow SSH

as ssh was already allowed and it came in the existing rule so , it has skipped adding that , but if it wasnt in existing rule it would have added in the rule.

Command: sudo ufw allow ssh

Step 4 – Deny HTTP

This above is the command for denying http whose output we can see as skipped because that rule was already present , but if the rule want presented it will add that in the rule .The deny of http mean block the incomings on web server i.e on port number 80.

Step 5 – Check Status

Above is the screenshot of the status of added rules and where we know 22 is the port for ssh and 80 for http , so 22 port is allowed and 80 has been blocked.

 That's how you set up a basic firewall with UFW on Ubuntu. This configuration allows remote management via SSH while blocking HTTP traffic for security.