Elevate Labs (Cyber-Security Internship)

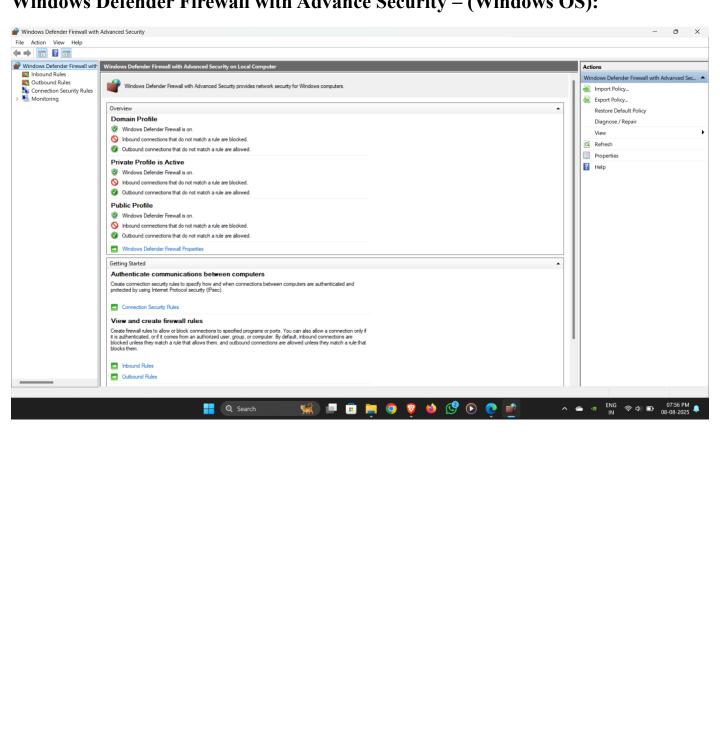
Task 4: Setup and Use a Firewall on Windows/Linux

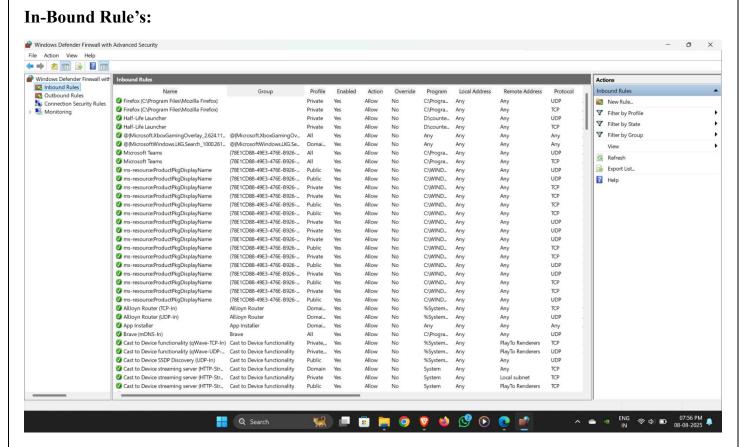
Objective: Configure and test basic firewall rules to allow or block traffic.

Tools: Windows Firewall / UFW (Uncomplicated Firewall) on Linux.

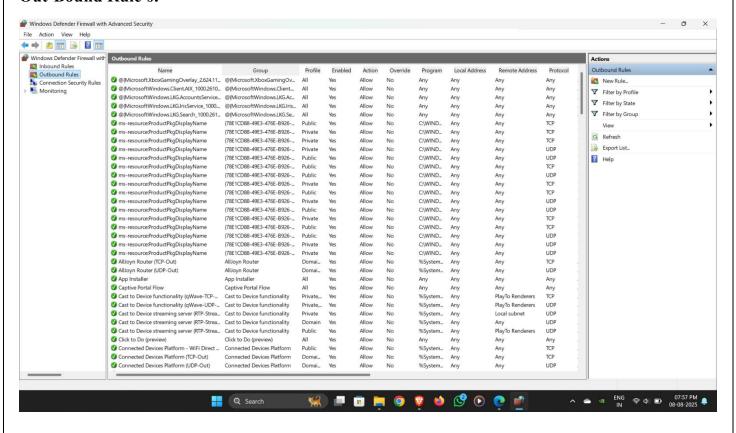
Deliverables: Screenshot/Configuration file showing Firewall rules applied.

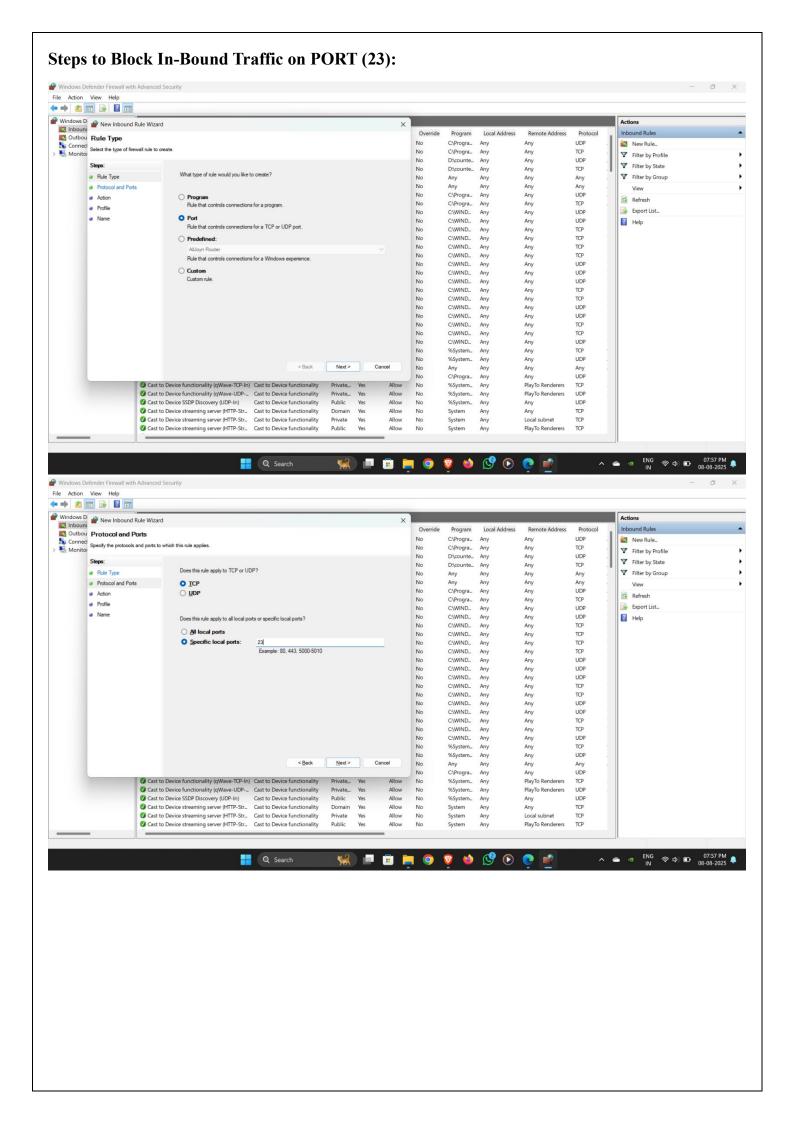
Windows Defender Firewall with Advance Security – (Windows OS):

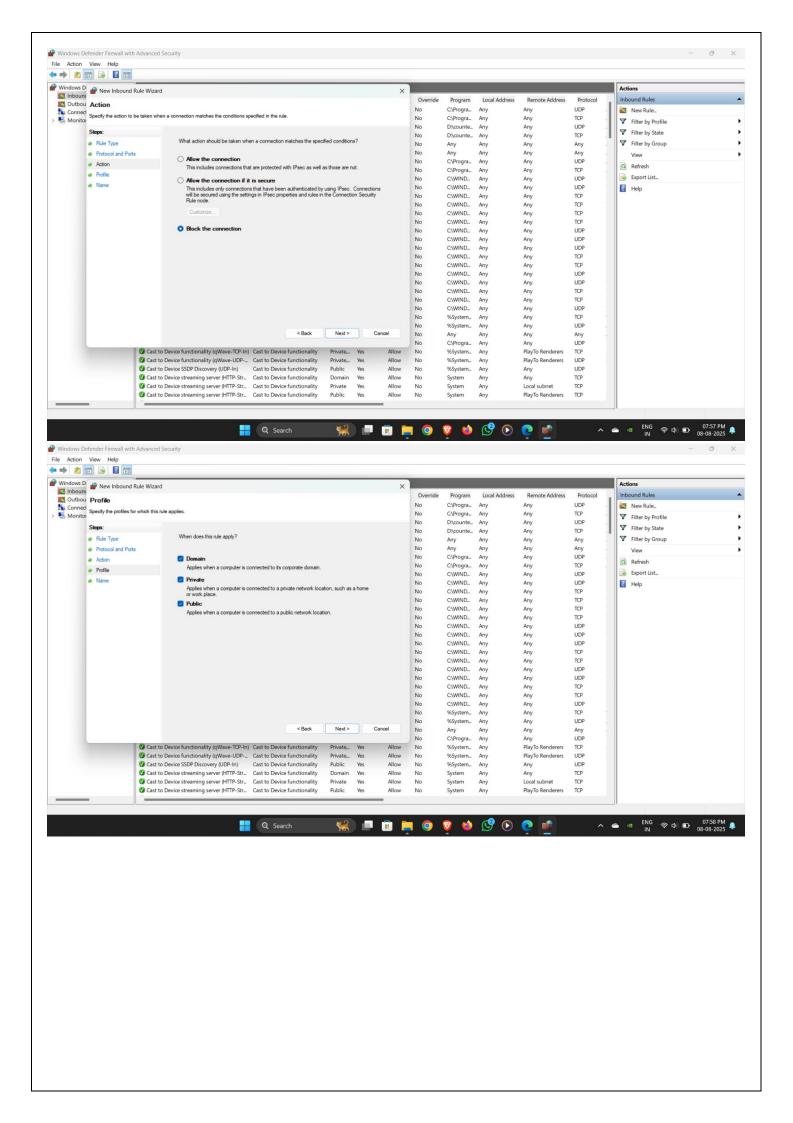


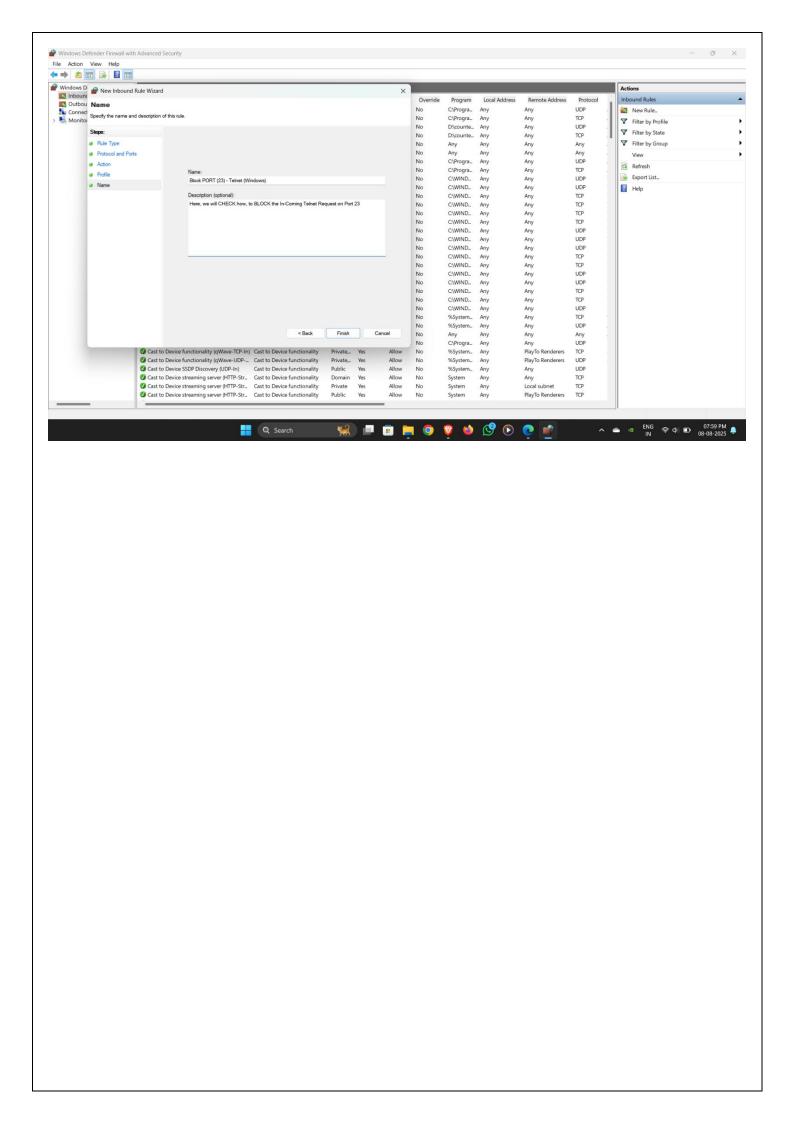


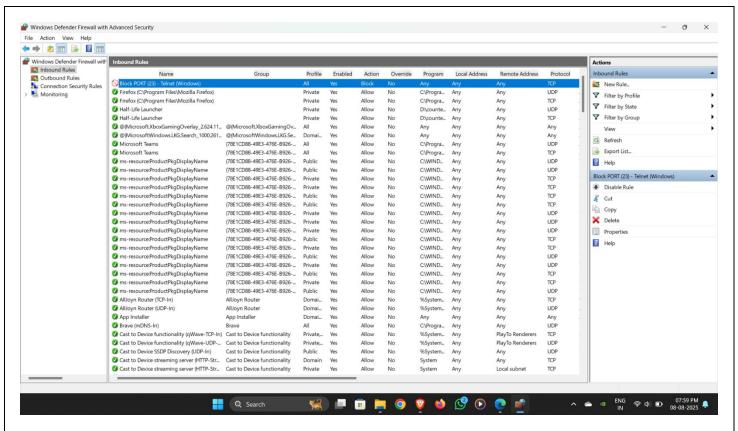
Out-Bound Rule's:



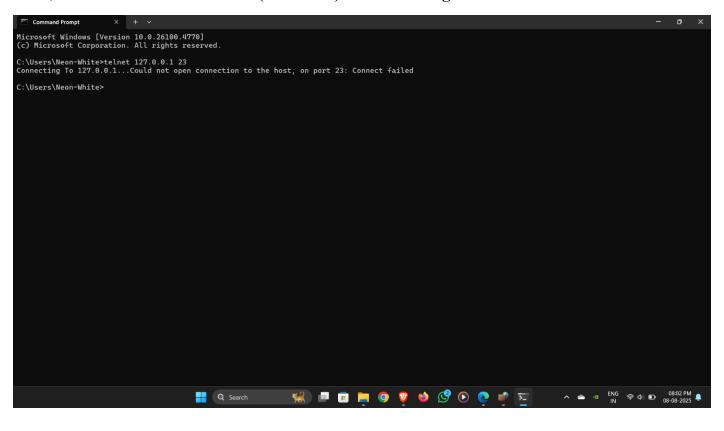








Here, we can SEE that TELNET (23-PORT) is not working:



UFW (Un-complicated Firewall) – (Kali-Linux OS):

Step 1: First, we will INSTALL: UFW (Un-complicated Firewall)

Command: sudo apt install ufw

```
neon-white@kali-linux: ~
   –$ <u>sudo</u> apt install ufw
[sudo] password for neon-white:
Installing:
   ufw
Suggested packages:
   rsyslog
Summary:
   Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 399
   Download size: 169 kB
   Space needed: 880 kB / 78.8 GB available
Get:1 http://mirror.kku.ac.th/kali kali-rolling/main amd64 ufw all 0.36.2-9 [169 kB]
Fetched 169 kB in 3s (67.0 kB/s)
Preconfiguring packages ...

Selecting previously unselected package ufw.

(Reading database ... 409818 files and directories currently installed.)

Preparing to unpack .../archives/ufw_0.36.2-9_all.deb ...

Unpacking ufw (0.36.2-9) ...
Setting up ufw (0.36.2-9) ...
Creating up (0.30.2-9)....
Creating config file /etc/ufw/before.rules with new version
Creating config file /etc/ufw/before6.rules with new version
Creating config file /etc/ufw/after.rules with new version
Creating config file /etc/ufw/after6.rules with new version
update-rc.d: We have no instructions for the ufw init script.
```

Step 2: Second, we will ENABLE (UFW):

Command: sudo ufw enable

Step 3: Third, we will ADD-RULE: (DENY PORT-23/TCP):

Command: sudo ufw deny 23/tcp



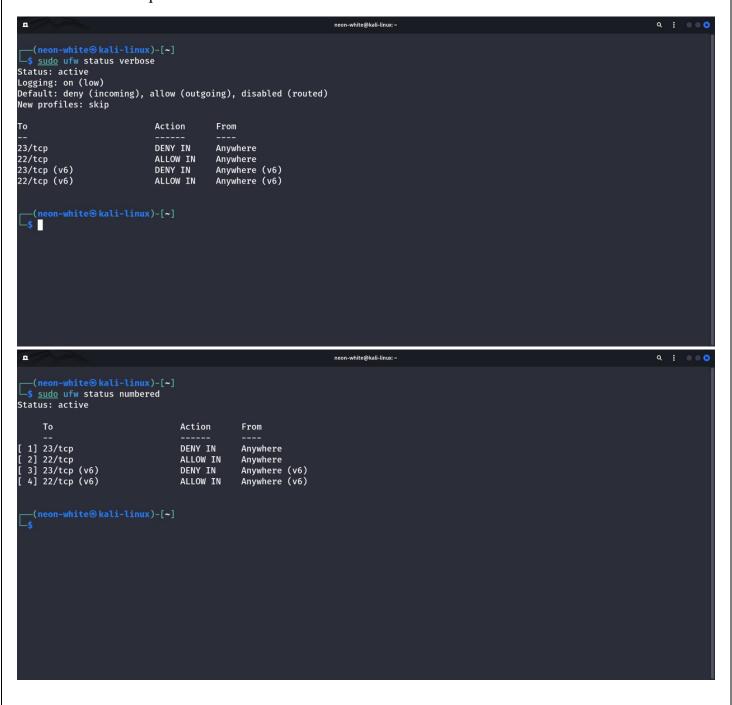
Step 4: Fourth, we will ALLOW-RULE: (SSH PORT-22/TCP):

Command: sudo ufw allow 22/tcp



Step 5: Fifth, we will CHECK, newly Added-Rule's:

Command: sudo apt ufw status verbose/numbered



Step: 6: At-Last, we will RUN (TELNET-Command):

Command: telnet localhost 23