DAY 4 - TASK 4

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.

Firewall Rule Creation, Testing & Removal Report

1) Objective

To configure a firewall rule that blocks inbound TCP connections on Telnet port (23), test its functionality, and restore the original firewall state.

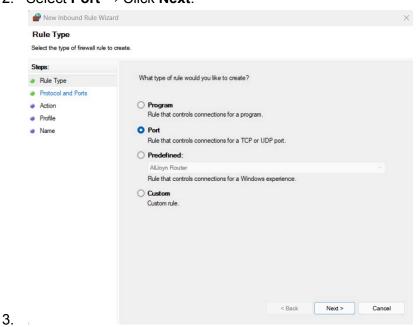
2) Steps -

1. Open Windows Firewall Configuration

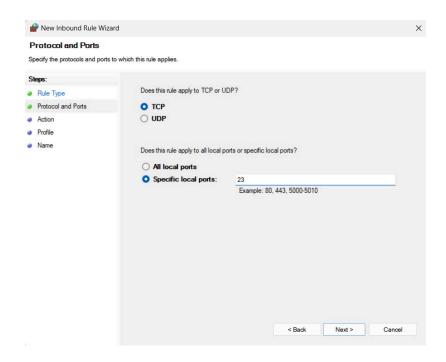
Press Windows + R, type wf.msc, and press Enter to open Windows Defender
 Firewall with Advanced Security.

2. Create New Inbound Rule

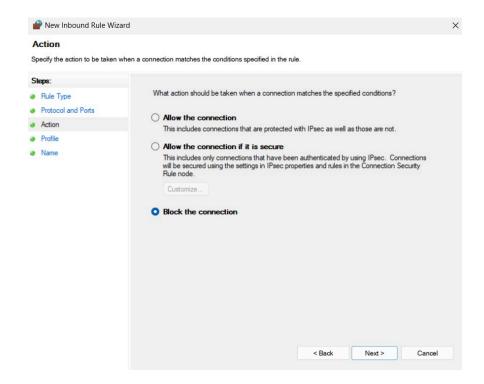
- 1. Click Inbound Rules → New Rule
- 2. Select Port → Click Next.



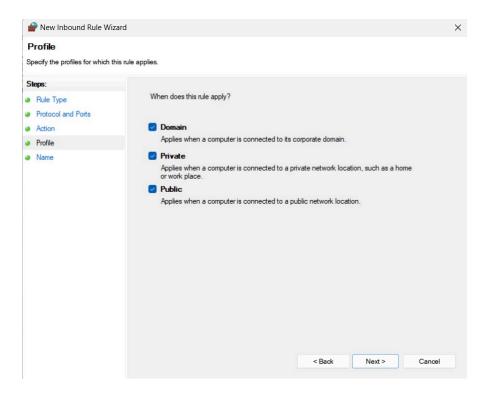
4. Choose TCP, enter 23 in Specific local ports → Click Next.



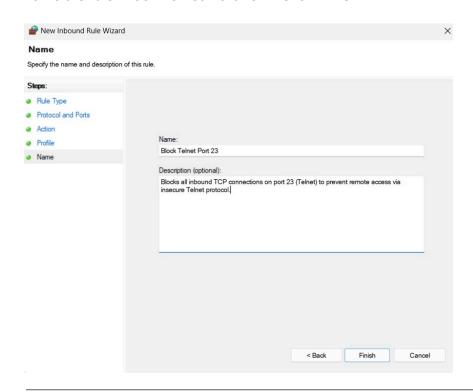
5. Select **Block the connection** → Click **Next**.



6. Select all profiles (**Domain**, **Private**, **Public**) \rightarrow Click **Next**.



7. Name the rule **Block Telnet Port 23** → Click **Finish**.



3. Install Telnet Client for Testing

Open Command Prompt as Administrator and run:

```
dism /online /Enable-Feature /FeatureName:TelnetClient
```

4. Test the Rule

In Command Prompt: telnet localhost 23

```
C:\Windows\System32>telnet localhost 23
Connecting To localhost...Could not open connection to the host, on port 23: Connect failed
```

This confirms that inbound TCP traffic on port 23 is blocked.

5. Remove the Test Block Rule

- In Windows Defender Firewall with Advanced Security, click **Inbound Rules**.
- Locate Block Telnet Port 23, right-click → Delete.

Firewall Filtering Summary

A firewall inspects network packets and decides whether to allow or block them based on rules-

- Allow rules let specified traffic through.
- Block/Deny rules drop or reject packets.
- Filtering can be based on IP address, protocol (TCP/UDP), and port number.
- In this, TCP traffic on **port 23** was blocked to prevent Telnet connections, reducing potential security risks.

Conclusion

The firewall successfully blocked inbound Telnet traffic on port 23, as verified by testing. The rule was then removed to restore the original firewall configuration.