Task 4: Setup and Use a Firewall on Windows

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Objective

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

Tools Used

- Windows Defender Firewall with Advanced Security
- Command Prompt (Telnet Client)

Steps Performed

- 1. Opened Firewall Configuration Tool
 - Opened Windows Defender Firewall with Advanced Security using wf.msc.
- 2. Listed Current Firewall Rules
 - Viewed Inbound Rules to check existing configurations.
 - o Screenshot:

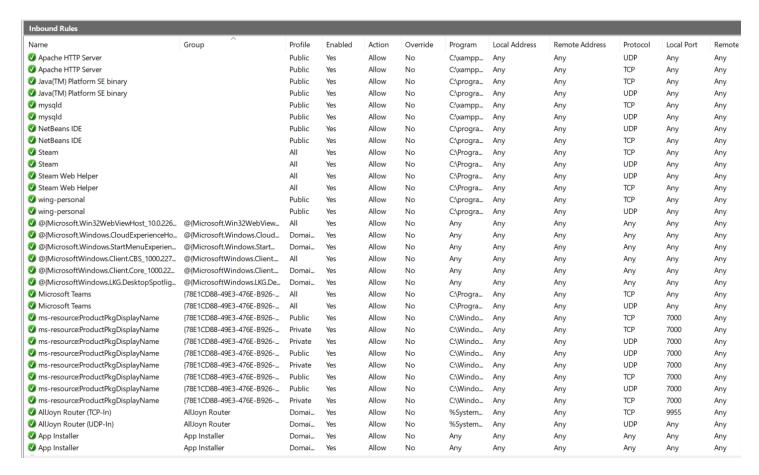
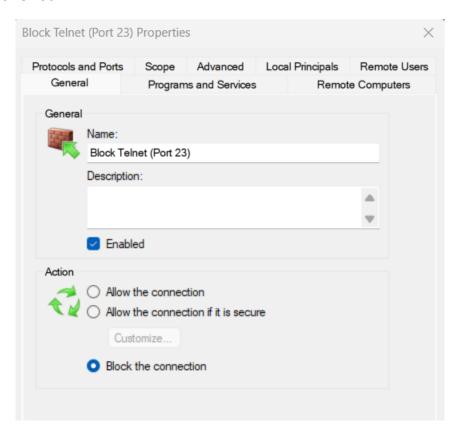


Figure 1 - Few Inbound rules

3. Added Rule to Block Port 23 (Telnet)

- Created a new inbound rule for TCP port 23.
- Configured action as Block the connection.
- Applied to all profiles (Domain, Private, Public).
- Screenshot:



4. Tested the Rule

- Used Telnet command: telnet localhost 23
- Result: Connection failed (traffic was blocked as expected).
- Screenshot:



5. Removed the Block Rule

o Deleted the inbound rule for port 23 to restore the firewall to original state.

Summary of Firewall Filtering

- A **firewall filters traffic** by applying rules that allow or block packets based on port, IP, or protocol.
- In this task:
 - o Port 23 (Telnet) was blocked to prevent insecure connections.
 - o Test confirmed the connection was denied.
 - o Rule was later removed to restore system state.

Outcome

- Gained hands-on experience in configuring Windows Firewall.
- Understood how to create, test, and remove rules.
- Demonstrated firewall's role in securing systems against unauthorized access.