

Firewall Configuration Report (Windows)

■ Objective

To configure and test basic firewall rules in Windows Firewall to allow or block specific network traffic.

■ Tools Used

- 1 Windows Defender Firewall with Advanced Security
- 2 Command Prompt (for Telnet test)

• Steps Performed

- Open Firewall Configuration Tool: Press Win + R, type 'wf.msc', and press Enter to open
- Windows Defender Firewall with Advanced Security.
- List Current Firewall Rules: Navigate to 'Inbound Rules' to view all currently active rules.
- Add Rule to Block Inbound Traffic on Port 23 (Telnet): New Rule → Port → TCP → 23 →
- Block the connection → All profiles → Name: 'Block Telnet'.
- Test the Rule: Open CMD and run 'telnet localhost 23' (Expected: Connection refused).
- Add Rule to Allow SSH (Port 22): New Rule → Port → TCP → 22 → Allow connection → All profiles → Name: 'Allow SSH'.
- Remove the Test Block Rule: Right-click 'Block Telnet' → Delete to restore original state.

■ Test Results

Block Port 23 (Telnet): Connection refused

Allow Port 22 (SSH): Connection allowed

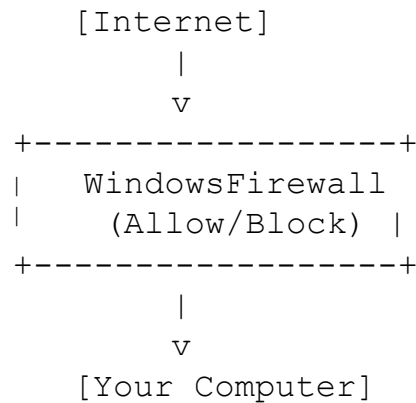
■ Commands / GUI Steps Summary

```
Open Firewall: wf.msc
Add Block Rule: Inbound Rules → New Rule → Port 23 → Block
Test Connection: telnet localhost 23
Add Allow Rule: Port 22 → Allow
Remove Rule: Right-click → Delete
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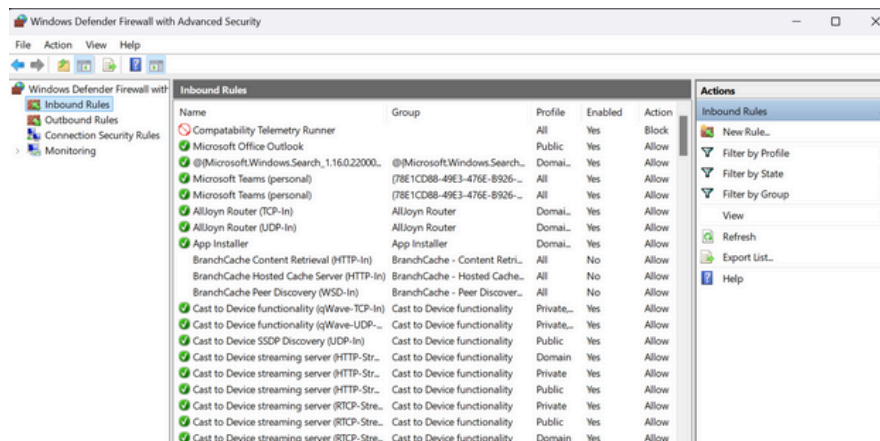
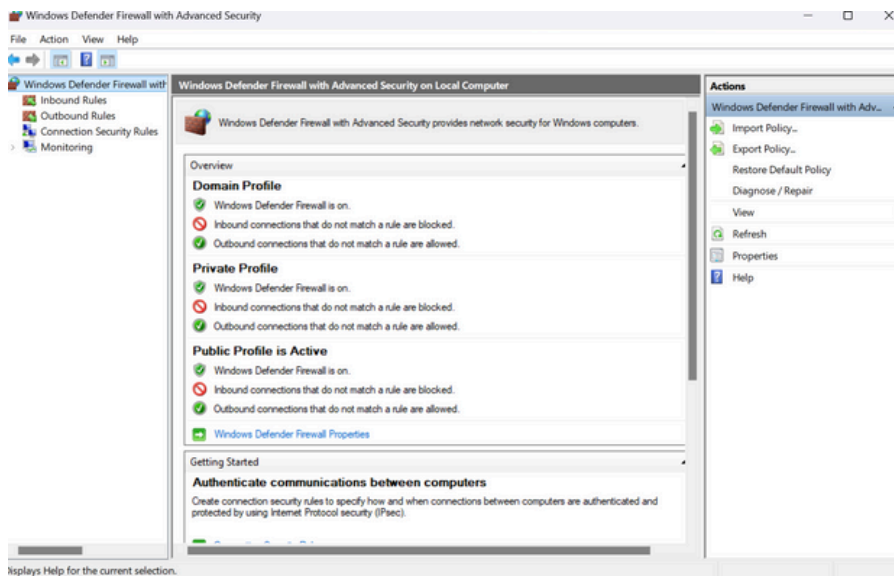
■ Summary: How Windows Firewall Filters Traffic

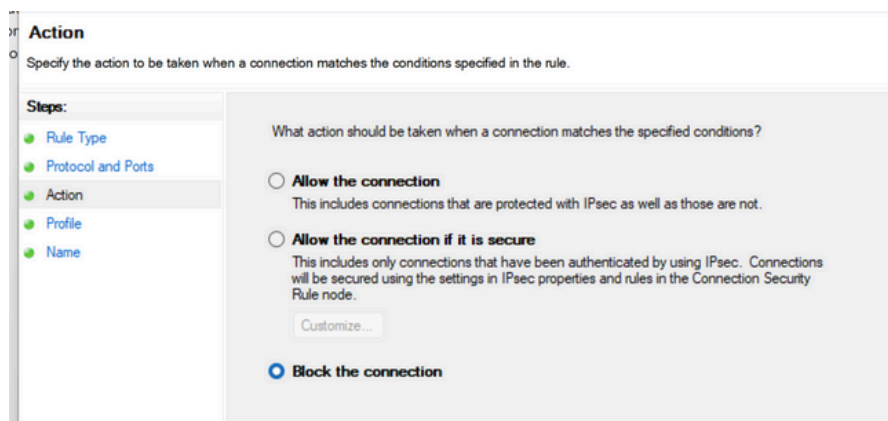
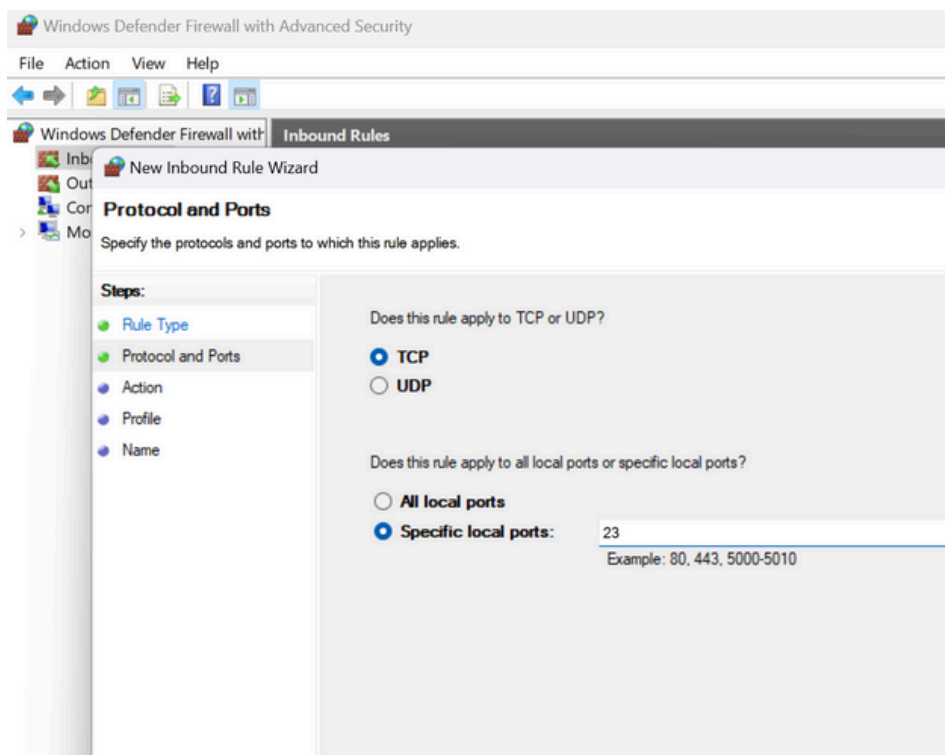
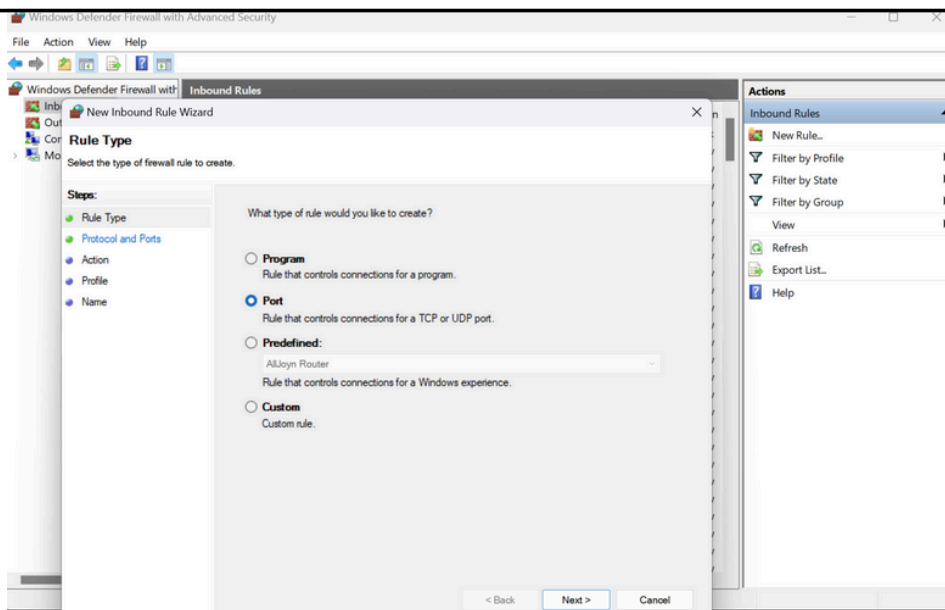
Windows Firewall inspects incoming and outgoing packets based on defined rules. It determines whether to allow or block traffic depending on port numbers, protocol type, application path, and network profile (Domain, Private, Public).

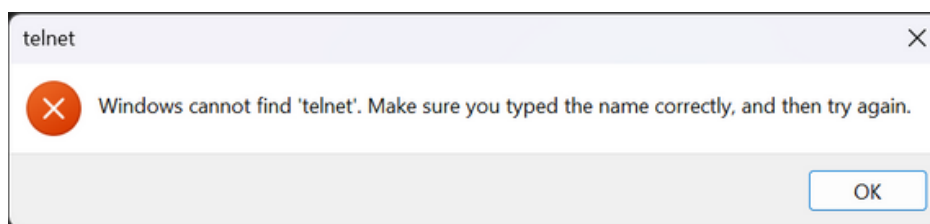
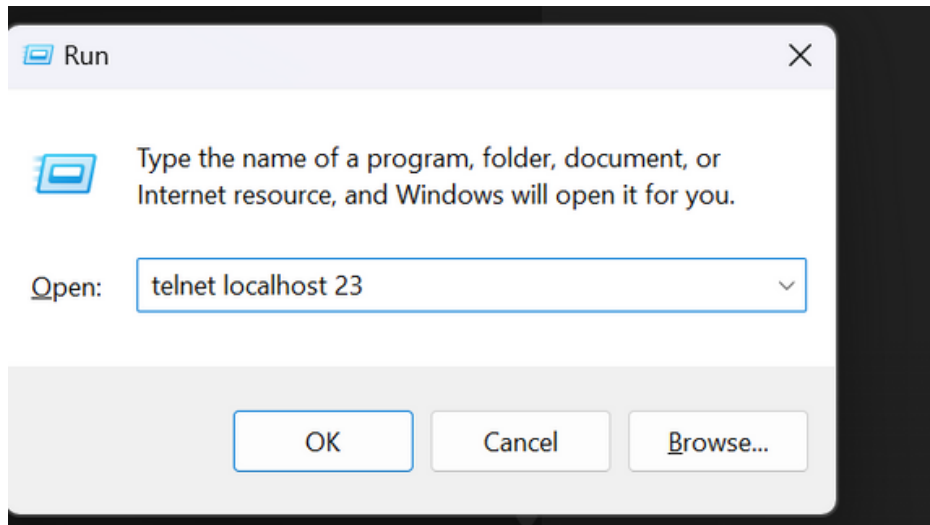
■ Traffic Flow Diagram



■ Screenshots:







- **Conclusion:**
- The firewall was successfully configured to block Telnet (port 23) and allow SSH (port 22) connections, effectively demonstrating how Windows Firewall enhances system security by managing and controlling network access through defined rules.
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- Course/Task: Task 4 – Setup and Use a Firewall (Windows)
- Date: 25/10/2025