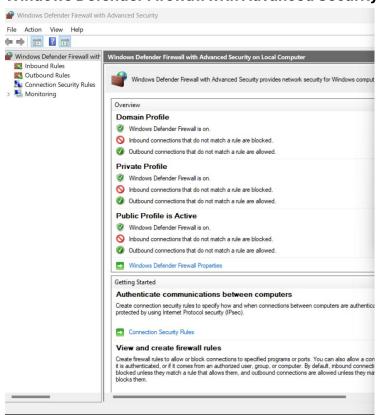
TASK 4

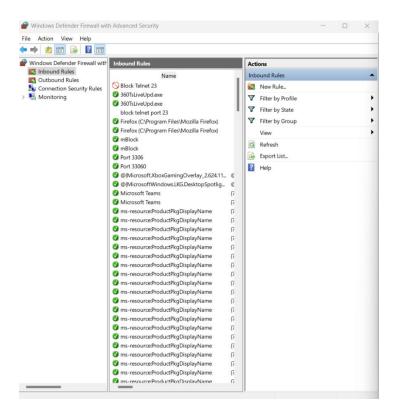
Explain the steps you followed to configure and test a firewall on Windows, including how you created a rule to block inbound traffic on a specific port, how you verified that it was blocked (e.g., using Telnet or Nmap), and how you restored the firewall to its original state. Also, briefly describe how a firewall filters traffic

Step 1 Open Firewall Configuration Tool:

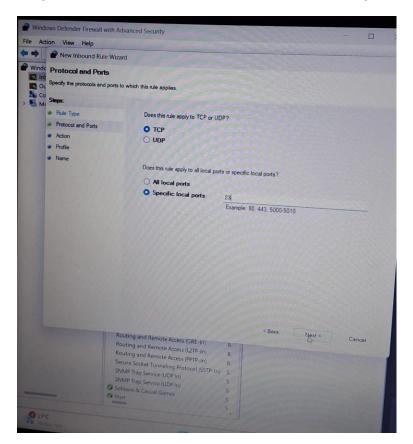
1. Windows Defender Firewall with Advanced Security

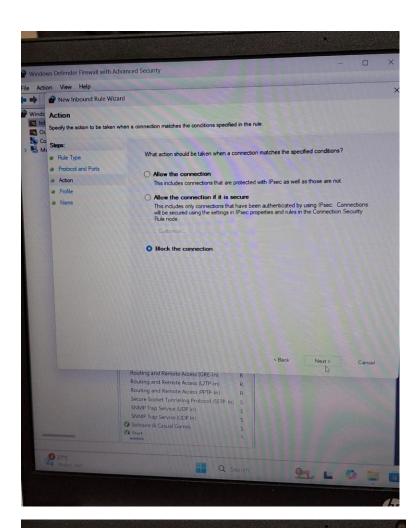


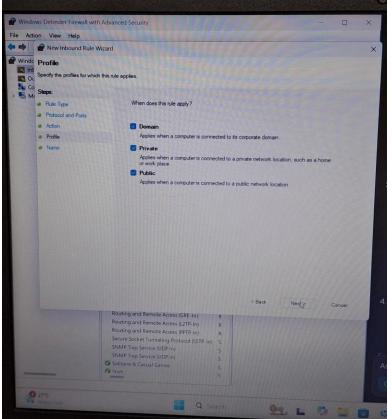
Step 2 List Current Firewall Rules:

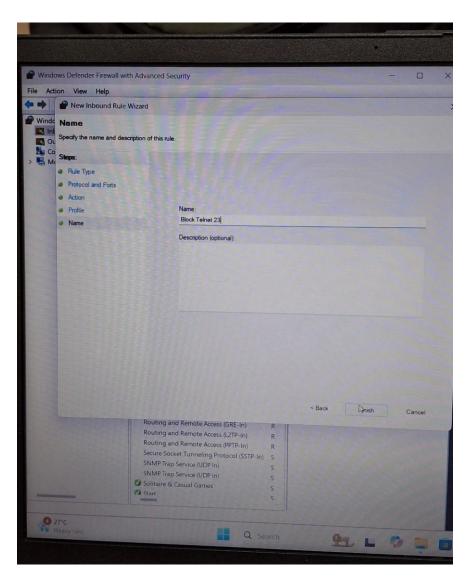


Step 3 Add a Rule to Block Inbound Traffic on a Specific Port (port 23 for Telnet):





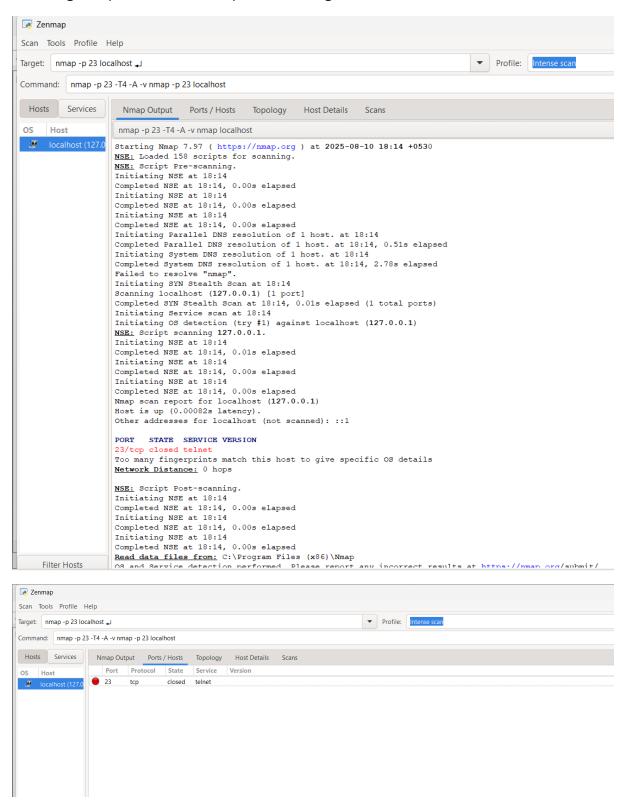




- "Inbound Rules" → "New Rule" (on the right-hand side).
- Choose Port, then click Next.
- Select TCP, specify the port number "23", then click Next.
- Choose Block the connection, then click Next.
- Select when this rule applies (Domain, Private, Public), typically all three, then Next.
- Name the rule something like "Block Telnet Port 23," then Finish

Step 5 Test the Rule:

I'm using nmap to check the 23 port is working or not



It's showing the port is blocked

Summary:

In this task, I successfully configured and tested basic firewall rules on a Windows system. I created an inbound rule to block Telnet traffic on port 23, verified the block using Telnet and Nmap, and then removed the rule to restore the firewall to its original state. This practical exercise demonstrated how a firewall can filter network traffic based on predefined rules, allowing or denying connections by criteria such as port number and protocol. The activity reinforced my understanding of how firewalls protect systems from unwanted or potentially harmful network access