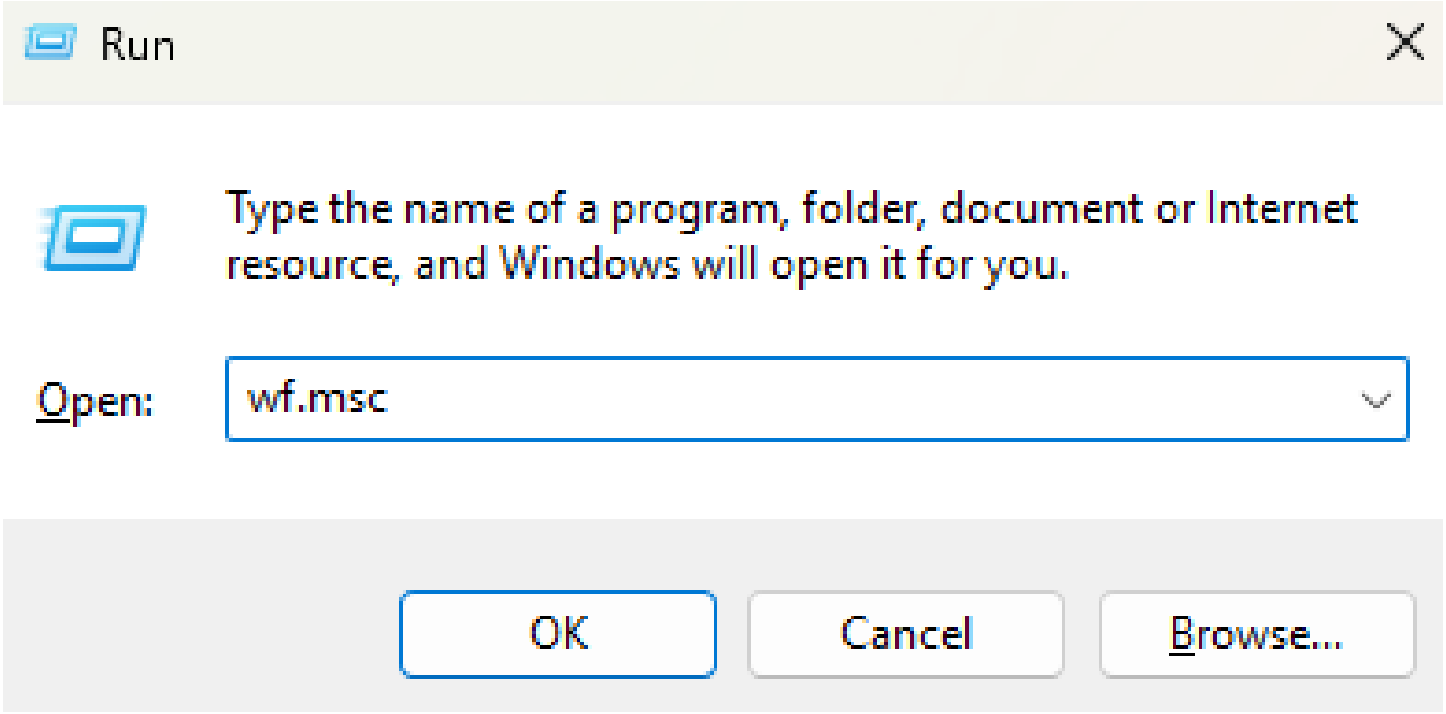
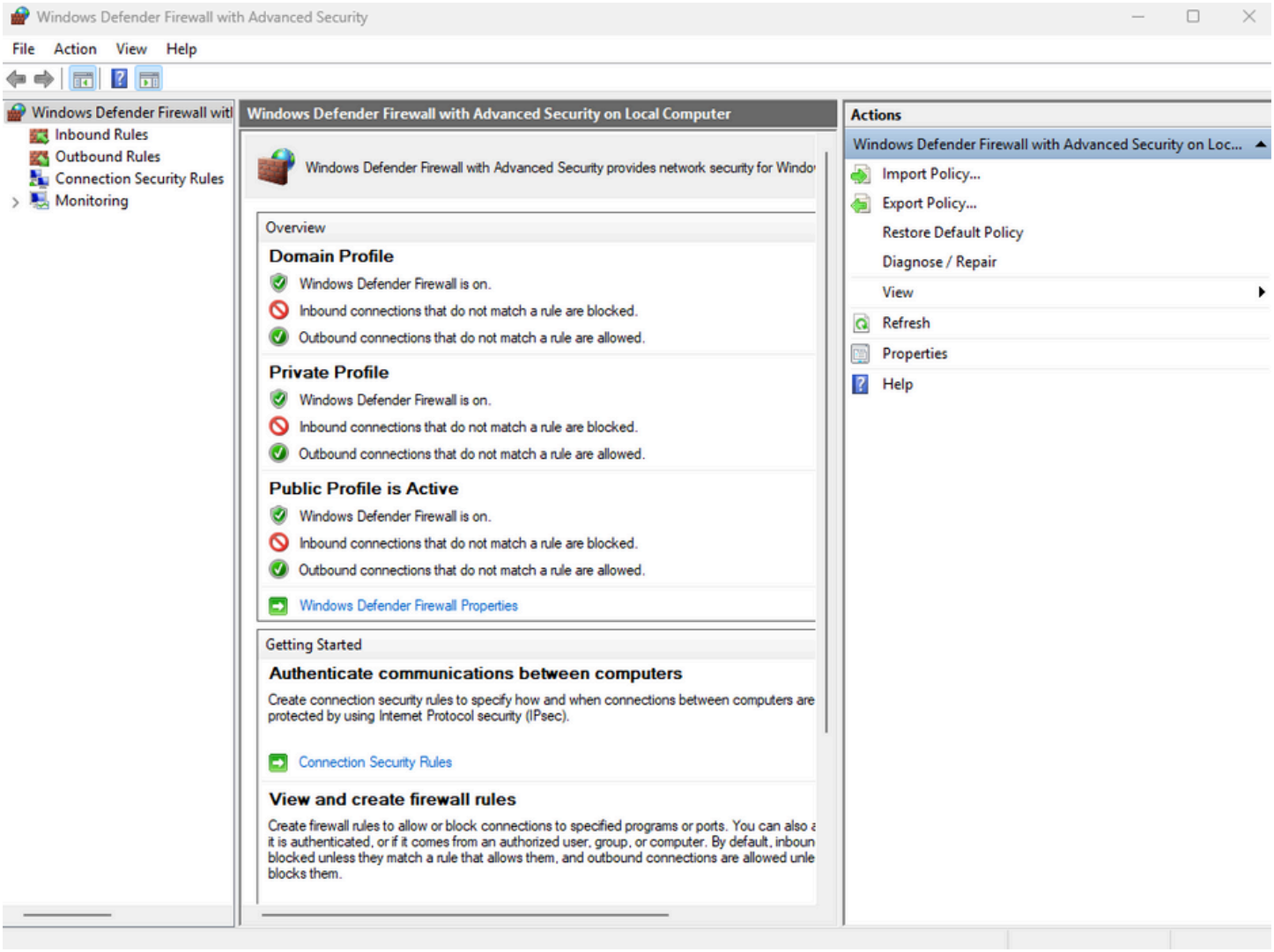
ELEVATE LABS CYBER SECURITY INTERNSHIP

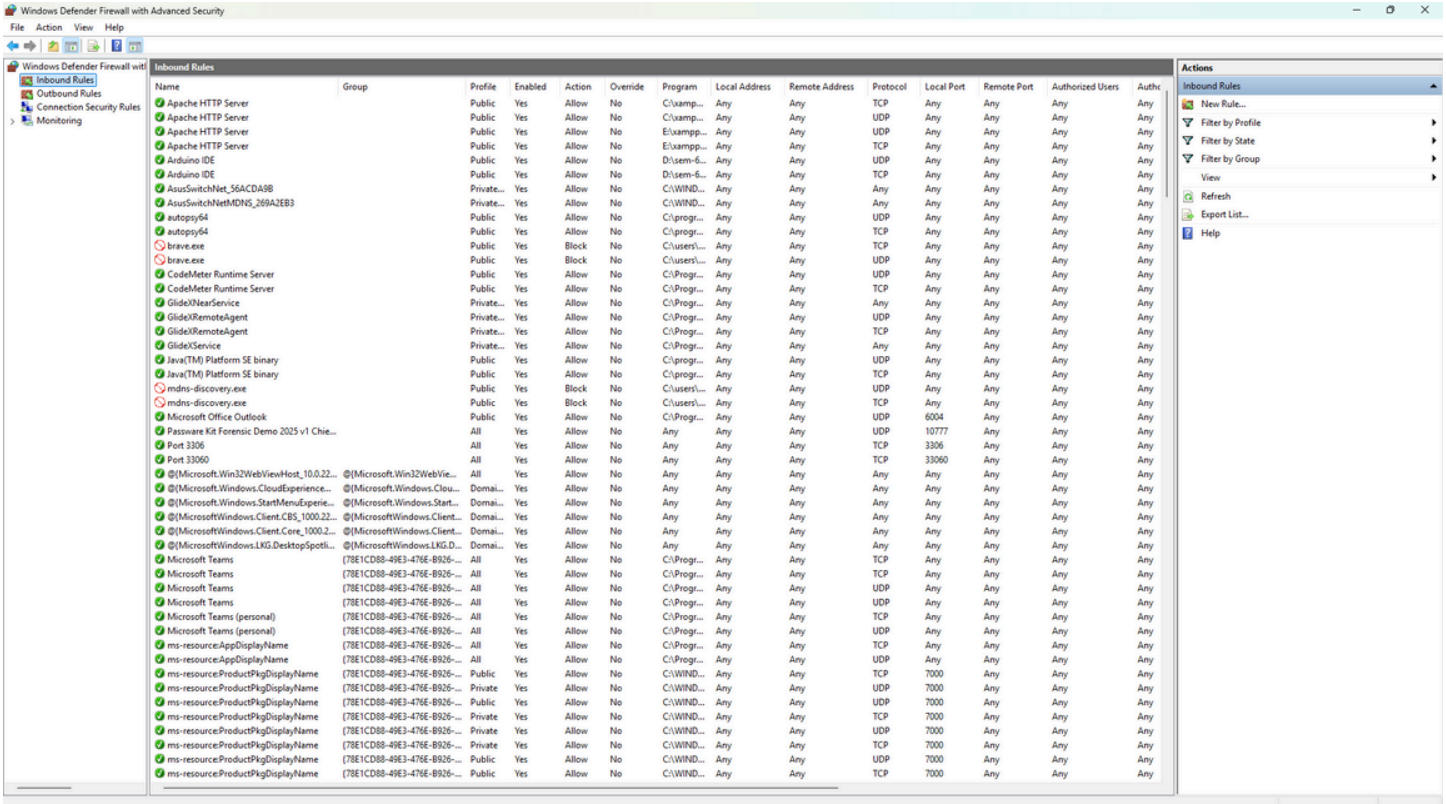
Task-4:

1.Open firewall configuration tool:

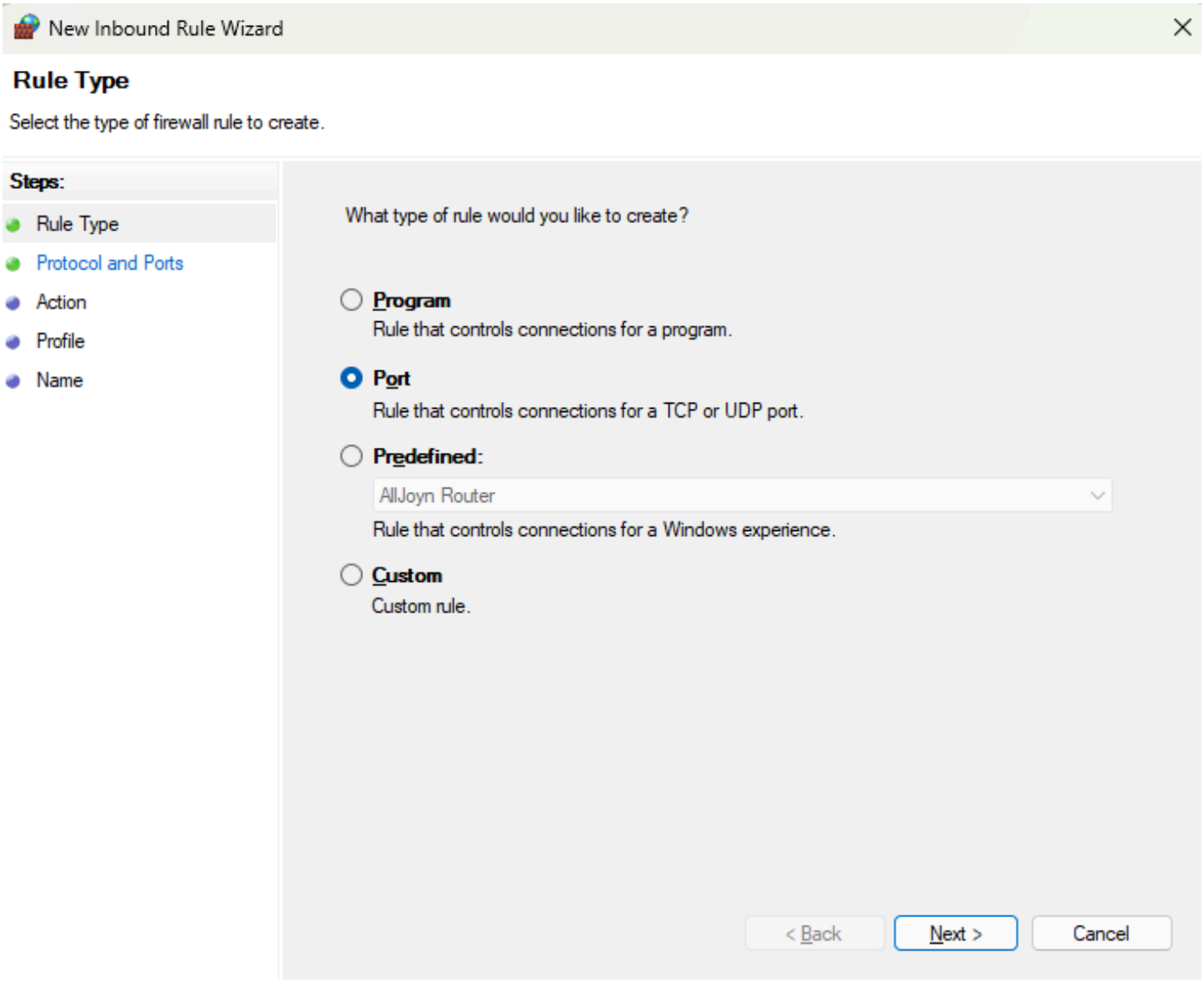


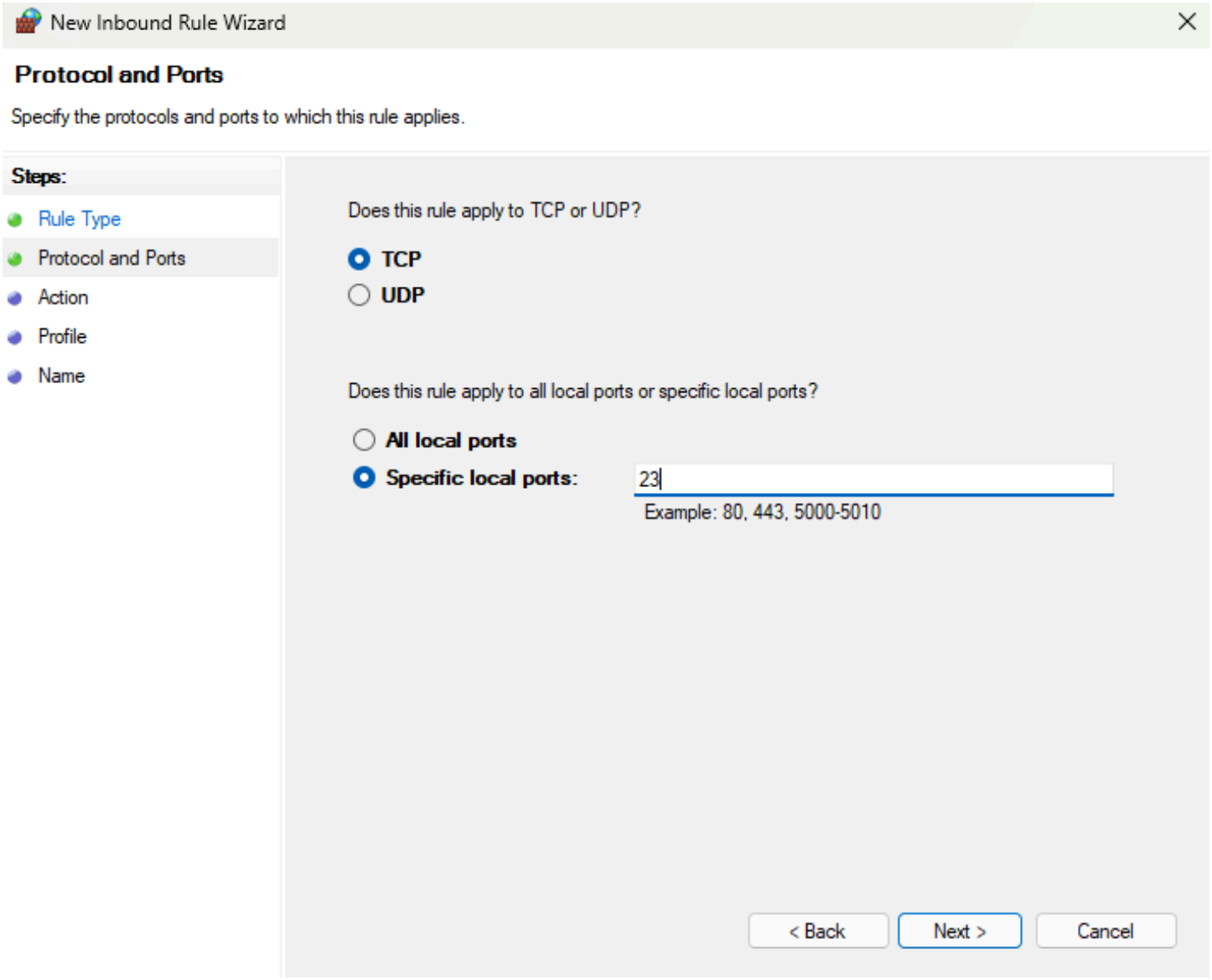


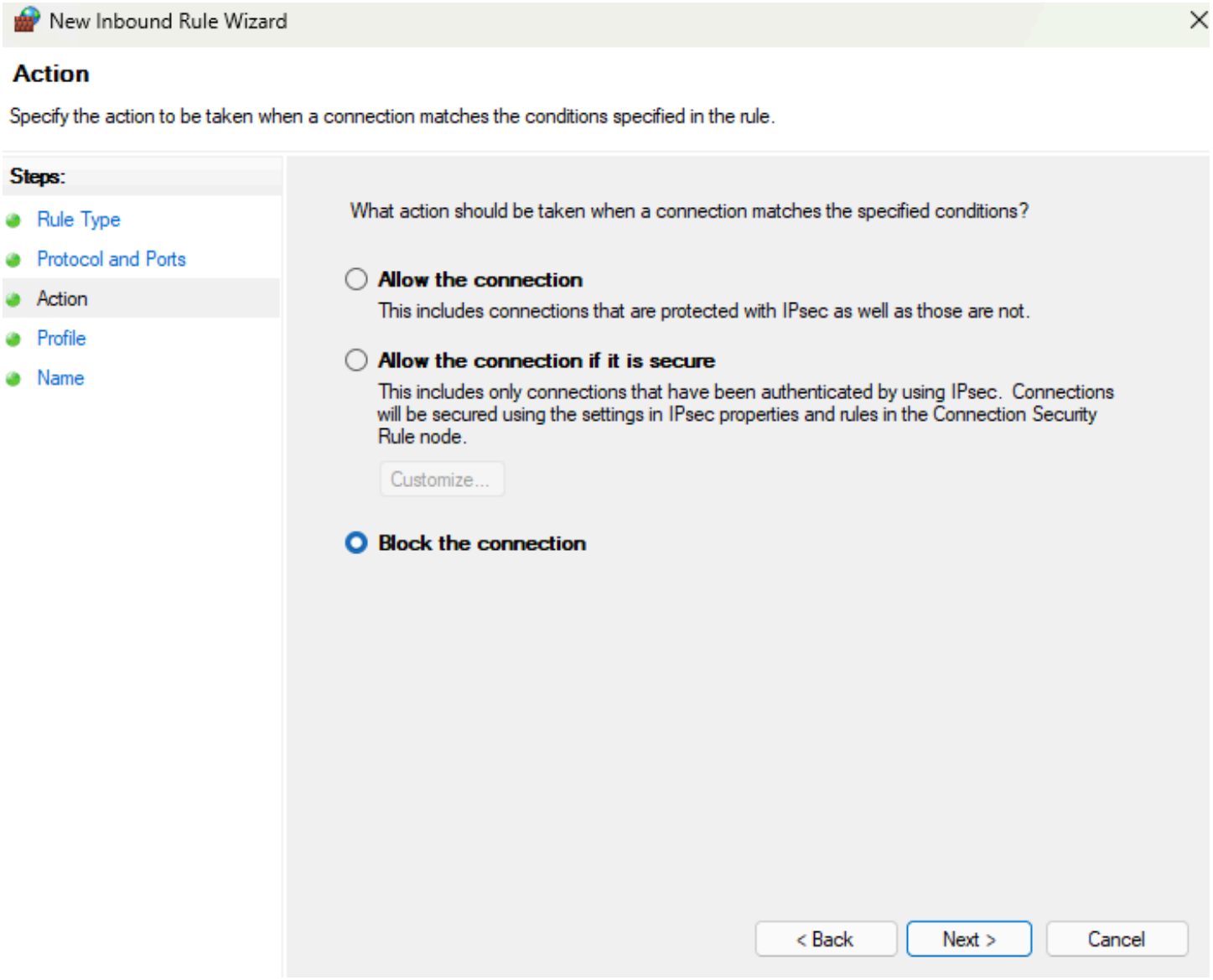
2.List current firewall rules.

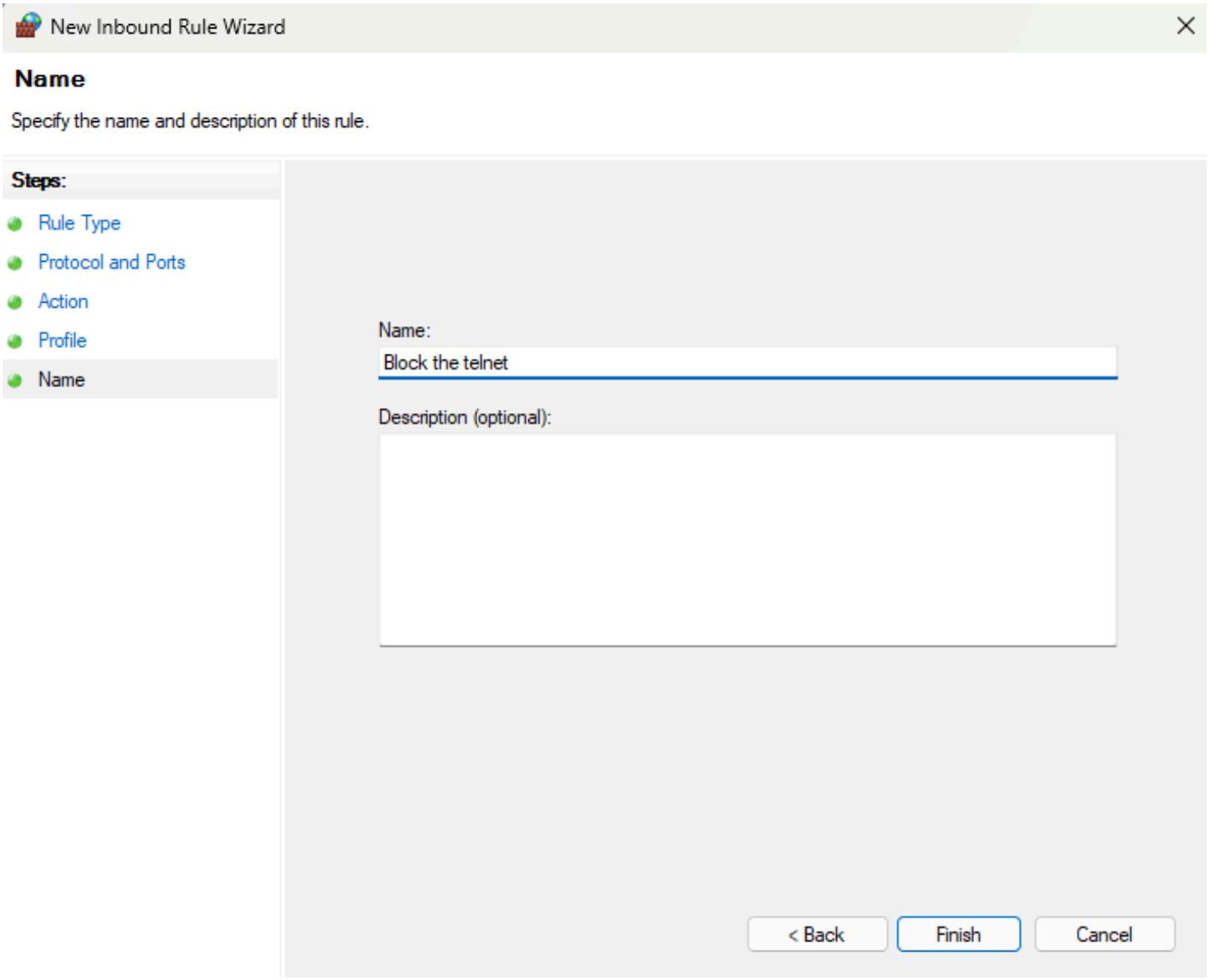


3.Add a rule to block inbound traffic on a specific port (e.g., 23 for Telnet).


New Inbound Rule Wizard
Rule Type
Select the type of firewall rule to create.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
What type of rule would you like to create?
Program
Rule that controls connections for a program.
Port
Rule that controls connections for a TCP or UDP port.
Predefined:
AllJoyn Router
Rule that controls connections for a Windows experience.
Custom
Custom rule.
< Back
Next >
Cancel


New Inbound Rule Wizard
Protocol and Ports
Specify the protocols and ports to which this rule applies.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
Does this rule apply to TCP or UDP?
TCP
UDP
Does this rule apply to all local ports or specific local ports?
All local ports
Specific local ports:
23
Example: 80, 443, 5000-5010
< Back
Next >
Cancel


New Inbound Rule Wizard
Action
Specify the action to be taken when a connection matches the conditions specified in the rule.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
What action should be taken when a connection matches the specified conditions?
Allow the connection
This includes connections that are protected with IPsec as well as those are not.
Allow the connection if it is secure
This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.
Customize...
Block the connection
< Back
Next >
Cancel



4.Test the rule by attempting to connect to that port locally or remotely.

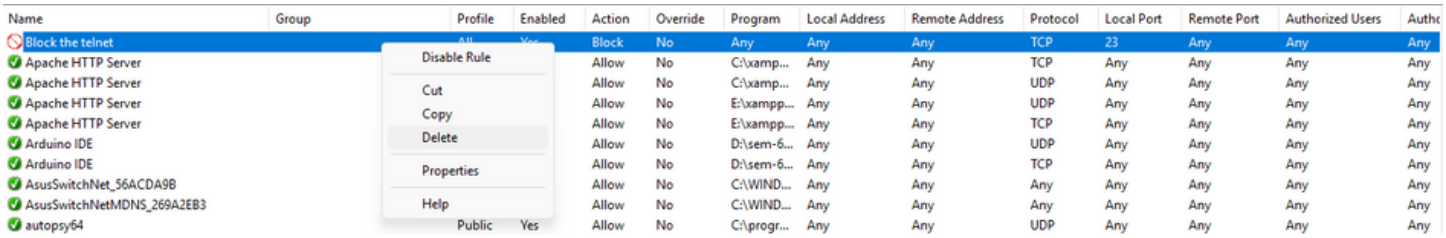
```
C:\Users\Chakr>telnet localhost 23
Connecting To localhost...Could not open connection to the host, on port 23: Connect failed

C:\Users\Chakr>
```

5.Add rule to alow SSH (port 22).

Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote Address	Protocol	Local Port	Remote Port	Authorized Users	Authc
Allow SSH		All	Yes	Allow	No	Any	Any	Any	TCP	22	Any	Any	Any
Apache HTTP Server		Public	Yes	Allow	No	C:\xamp...	Any	Any	TCP	Any	Any	Any	Any
Apache HTTP Server		Public	Yes	Allow	No	C:\xamp...	Any	Any	UDP	Any	Any	Any	Any
Apache HTTP Server		Public	Yes	Allow	No	E:\xampp...	Any	Any	UDP	Any	Any	Any	Any
Apache HTTP Server		Public	Yes	Allow	No	E:\xampp...	Any	Any	TCP	Any	Any	Any	Any
Arduino IDE		Public	Yes	Allow	No	D:\sem-6...	Any	Any	UDP	Any	Any	Any	Any

6.Remove the test block rule to restore original state.



7. Document Commands or GUI Steps Used

- Opened wf.msc
- Added inbound rule to block TCP port 23
- Verified using Telnet
- Allowed port 22 (SSH)
- Removed Telnet rule after testing

8.Summarize how firewall filters traffic.

Windows Firewall filters traffic by applying rules to incoming and outgoing connections. Each rule can allow or block traffic based on protocol, port, IP address, and profile (Domain, Private, Public). We tested this by blocking Telnet (port 23) and verifying it with a connection attempt, then allowed SSH (port 22). The firewall enforces these rules in real time to protect the system.