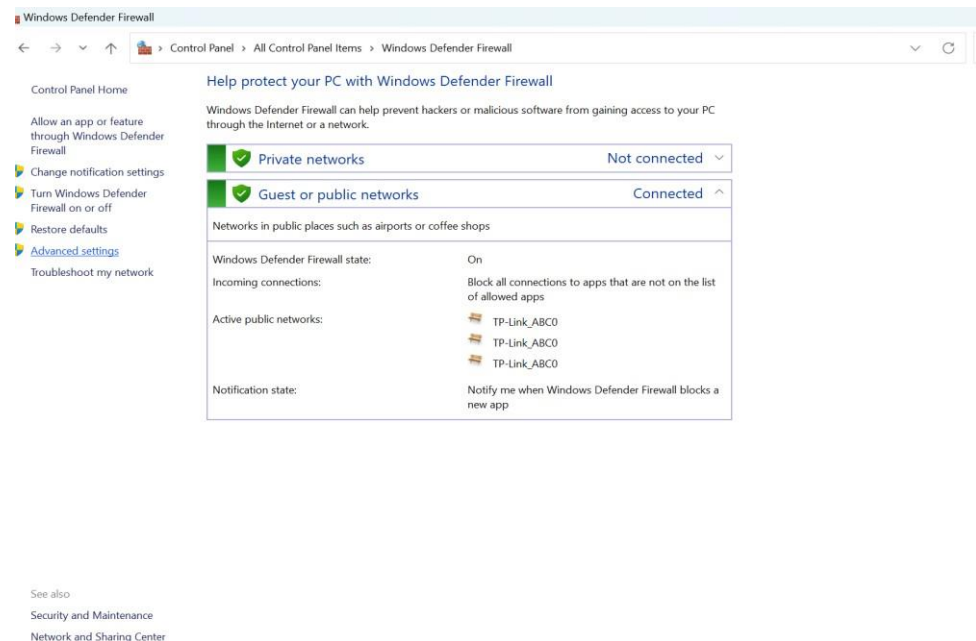


TASK-4

Aim: Setup and Use a Firewall on Windows/Linux

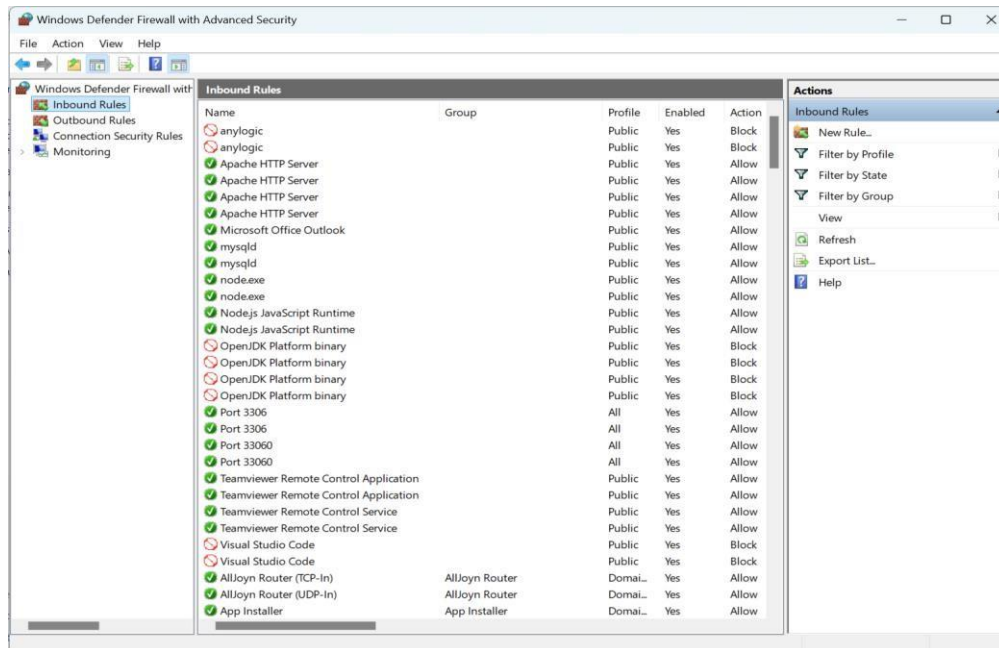
Step 1: Open Windows Firewall

1. Press Win + R, type control, press Enter.
2. Click "System and Security" > "Windows Defender Firewall".



Step 2: View Current Rules

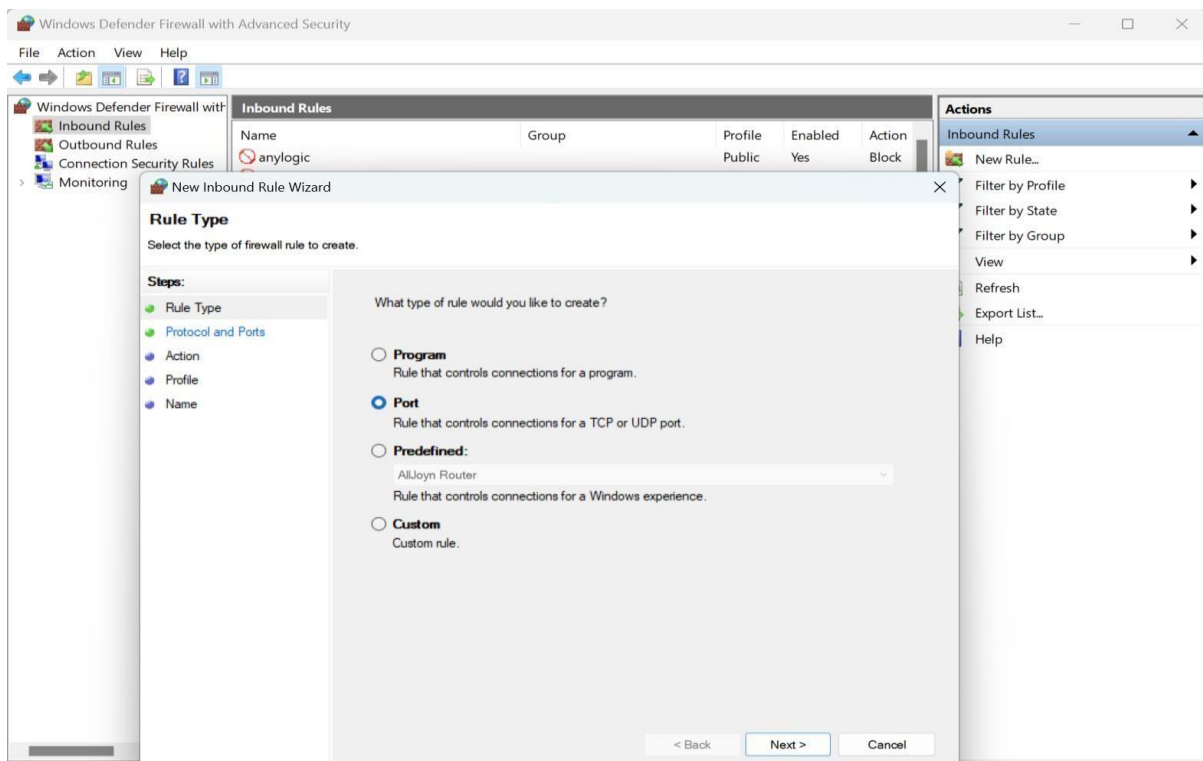
1. Click "Advanced settings" on the left panel.
2. In the new window (Windows Defender Firewall with Advanced Security), you'll see:
 - Inbound Rules
 - Outbound Rules



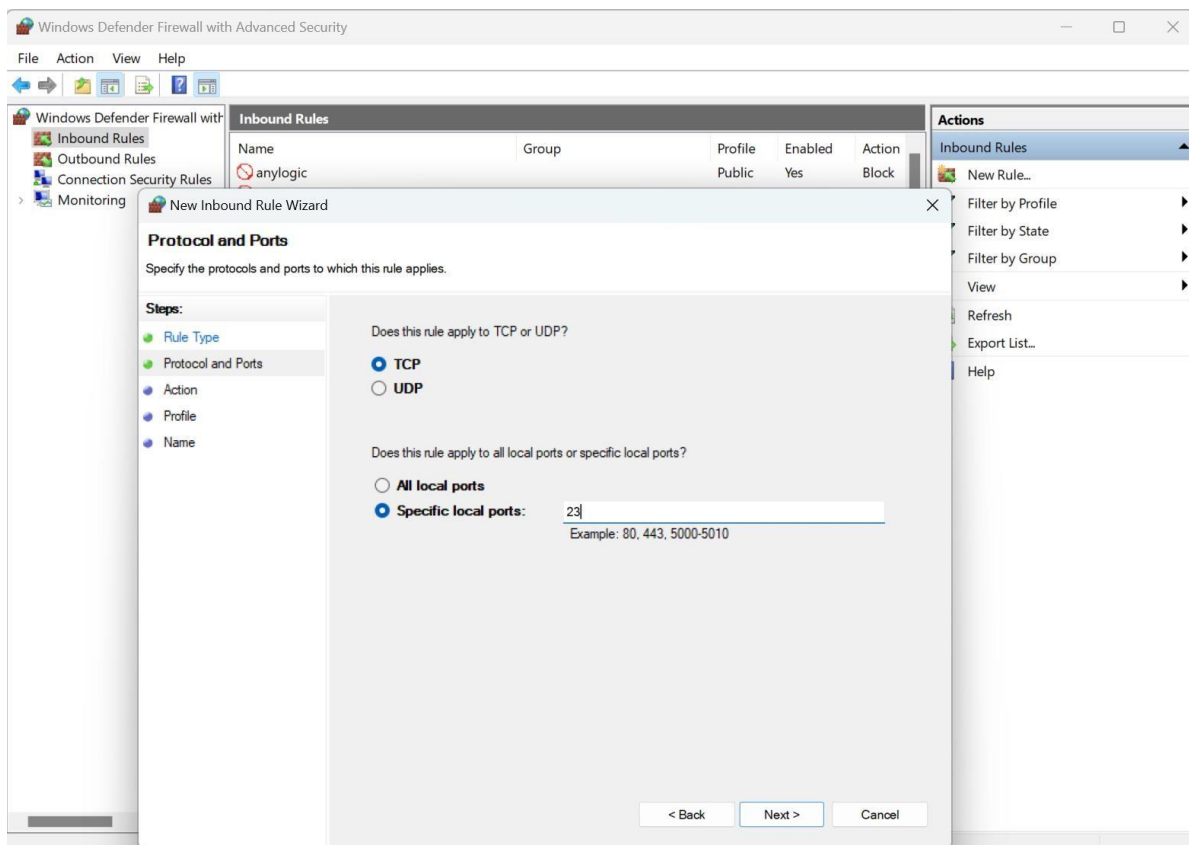
Step 3: Block Inbound Traffic on Port 23 (Telnet)

1. In the left panel, click **Inbound Rules**.
2. In the right panel, click **New Rule...**
3. Select **Port** > Click **Next**.
4. Choose **TCP** > Select **Specific local ports** and enter: 23 > Click **Next**.
5. Select **Block the connection** > Click **Next**.
6. Check all three profiles (Domain, Private, Public) > Click **Next**.
7. Name it something like Block Telnet Port 23 > Click **Finish**.

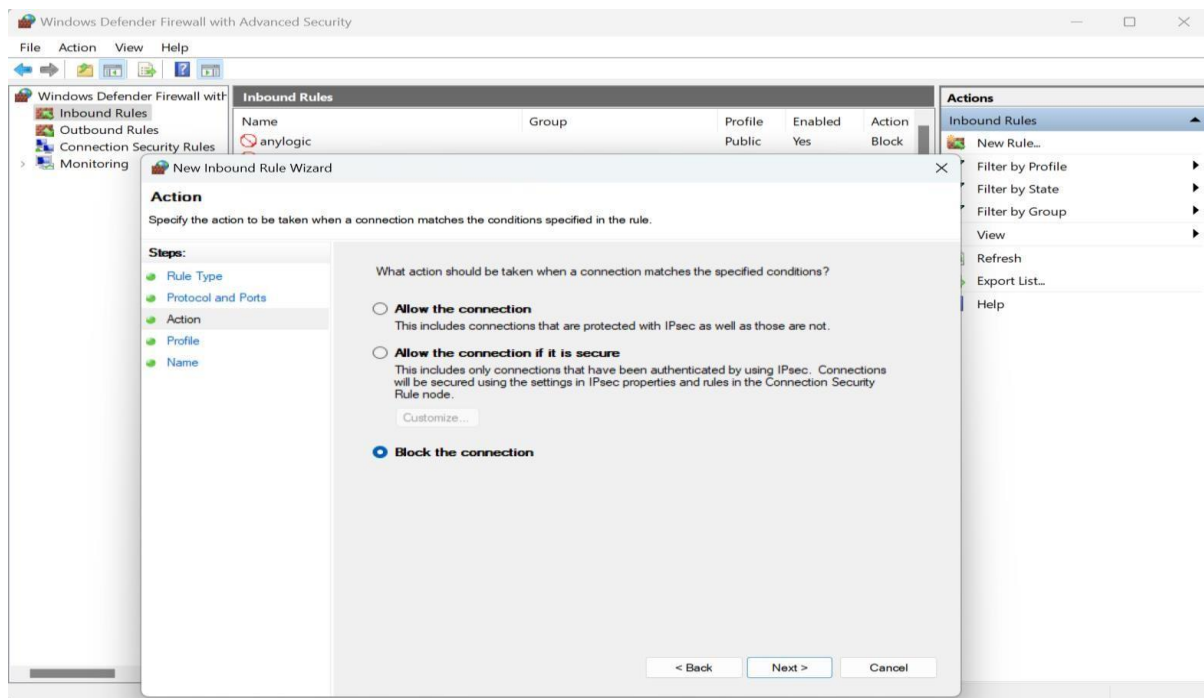
3. Select **Port** > Click **Next**.



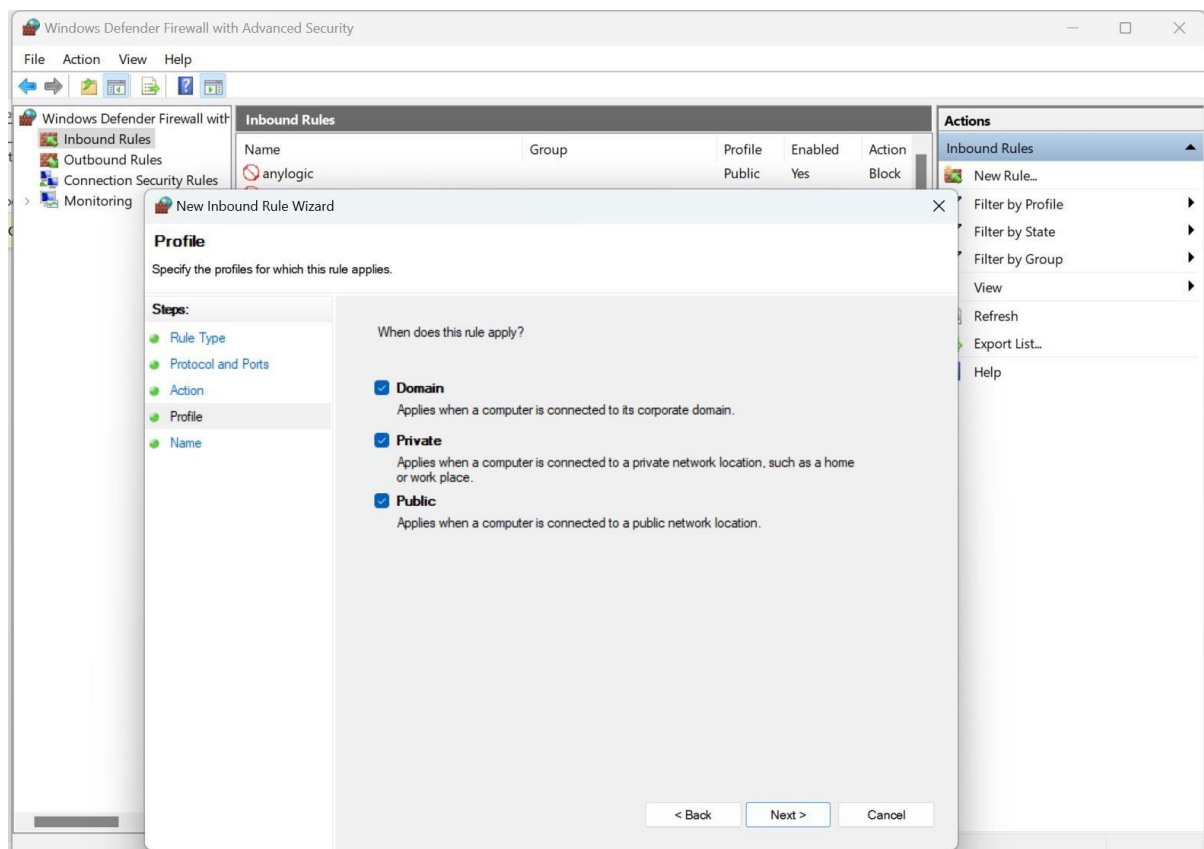
4. Choose **TCP** > Select **Specific local ports** and enter: 23 > Click **Next**.



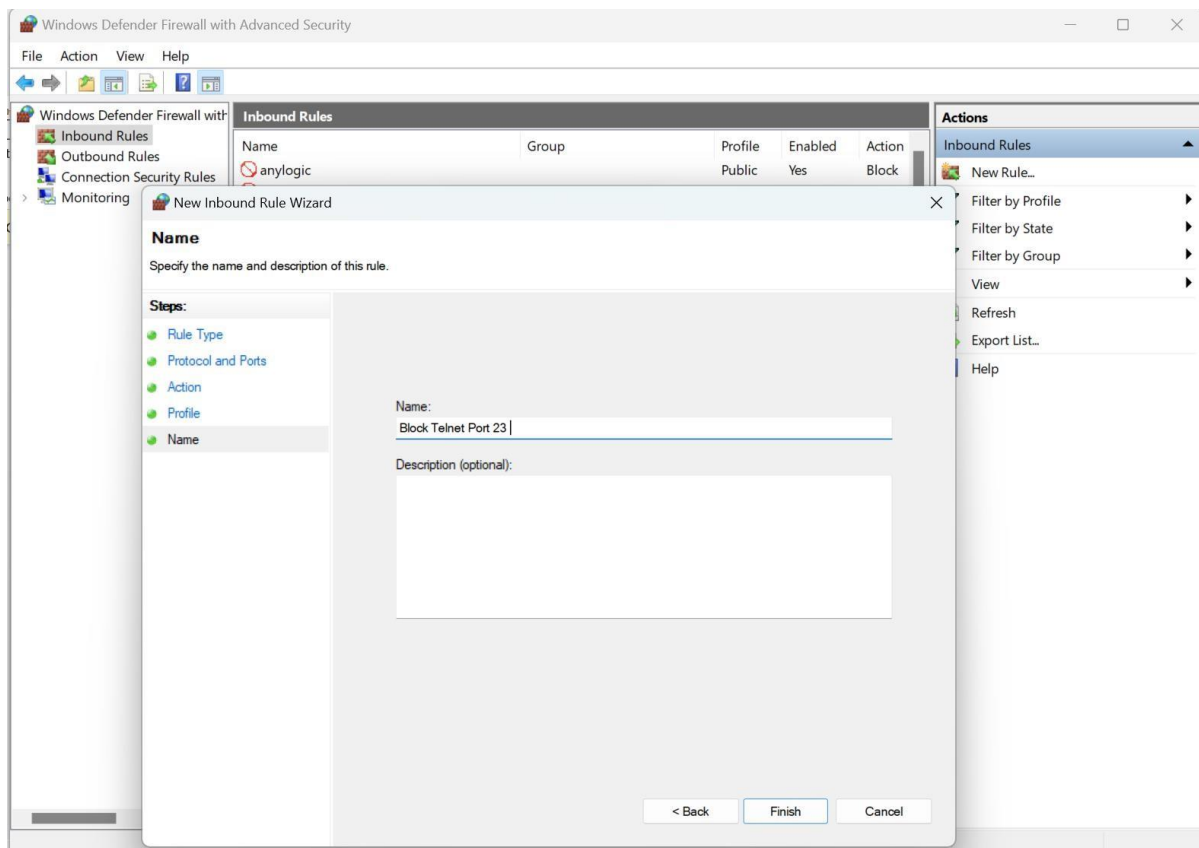
5. Select **Block the connection** > Click **Next**.



6. Check all three profiles (Domain, Private, Public) > Click **Next**.



7. Name it something like Block Telnet Port 23 > Click **Finish**.



Step 4: Test the Rule

- Use **Telnet** to test if the port is blocked (optional):
 1. Enable Telnet:
 - Open PowerShell or CMD as Admin.
 - Run: `dism /online /Enable-Feature /FeatureName:TelnetClient`
 2. Try: `telnet localhost 23`
 3. It should **fail to connect**.

- Open PowerShell or CMD as Admin.



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

A screenshot of an Administrator Command Prompt window. The title bar reads "Administrator: Command Prompt". The window contains the following text:

```
Microsoft Windows [Version 10.0.22631.5335]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>dism /online /Enable-Feature /FeatureName:TelnetClient

Deployment Image Servicing and Management tool
Version: 10.0.22621.2792

Image Version: 10.0.22631.5335

Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.

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

C:\Windows\System32>
```

Step 6: Remove the Test Rule

1. Go back to **Inbound Rules**.
2. Find the rule named Block Telnet Port 23.
3. Right-click > **Delete** or **Disable**.

