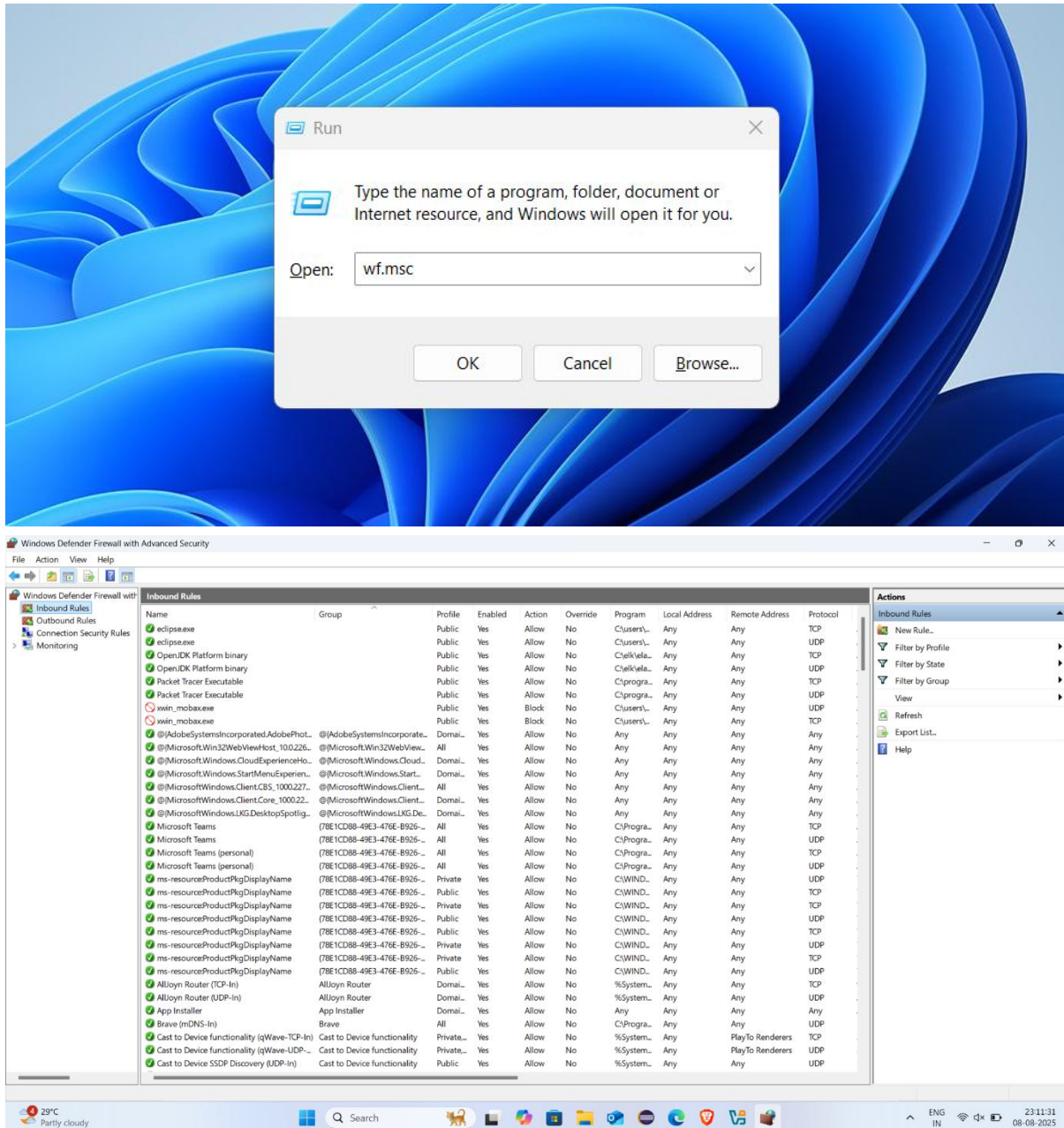


Task 4: Setup and Use a Firewall on Windows

1. Open Firewall Configuration

- Press Win + R, type **wf.msc**, and press **Enter**.
- This opens Windows Defender Firewall with Advanced Security.



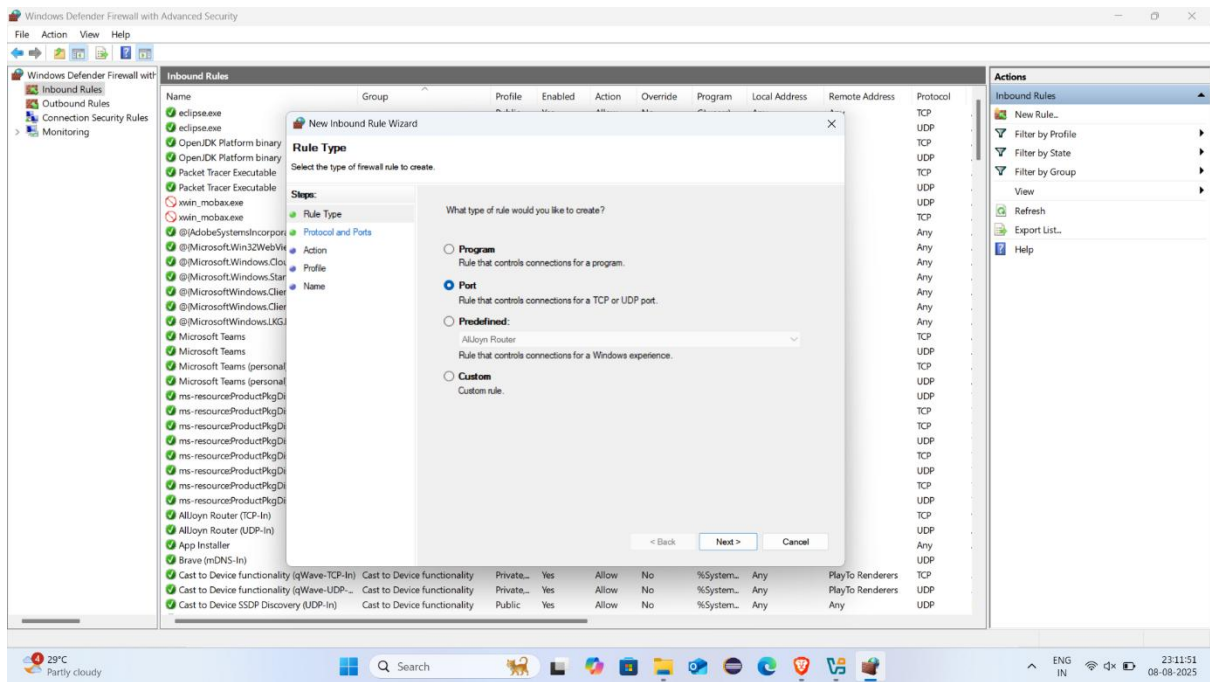
2. List Current Rules

- Go to **Inbound Rules** → scroll to view existing rules.

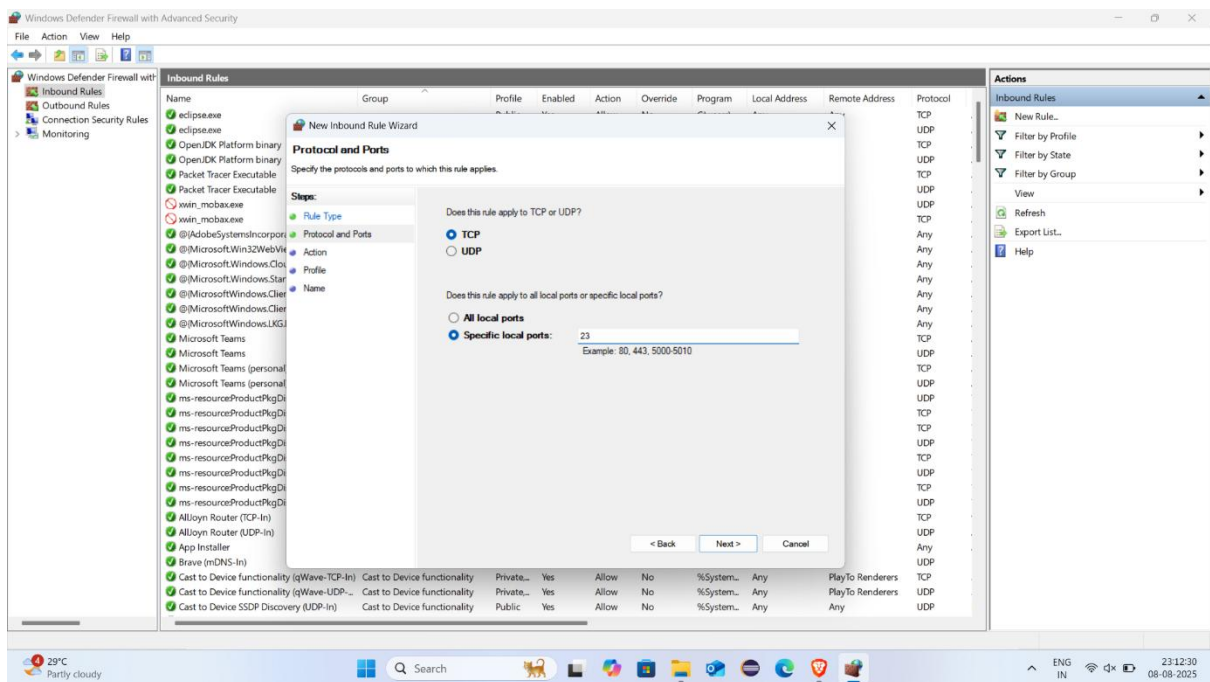
3. Add a Rule to Block Port 23 (Telnet)

- In **Inbound Rules**, click **New Rule** (right panel).

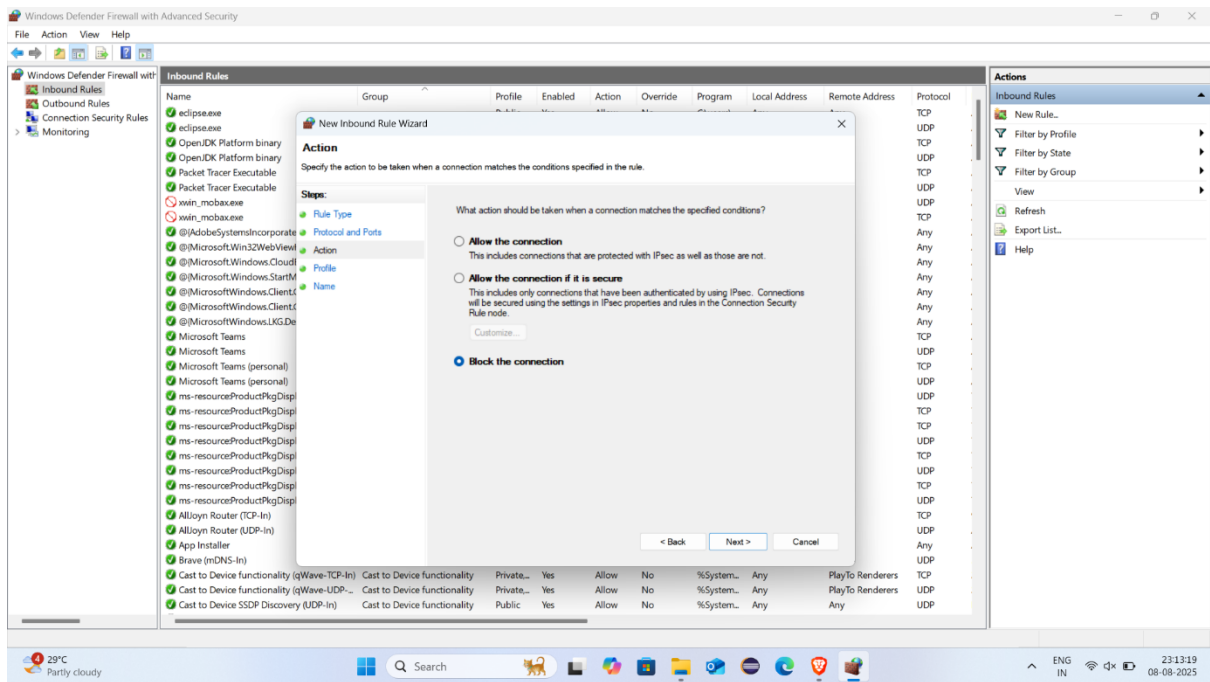
→ Name it Block Telnet.



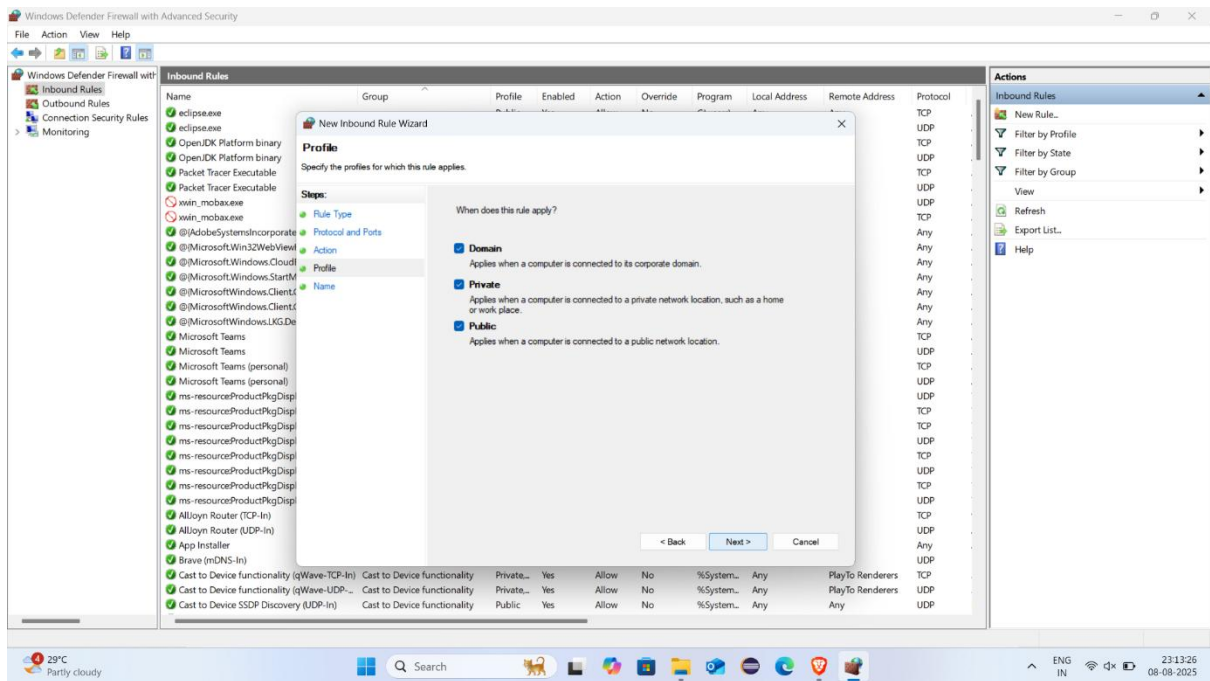
- Select **Port** → **TCP** → Specific local port: 23



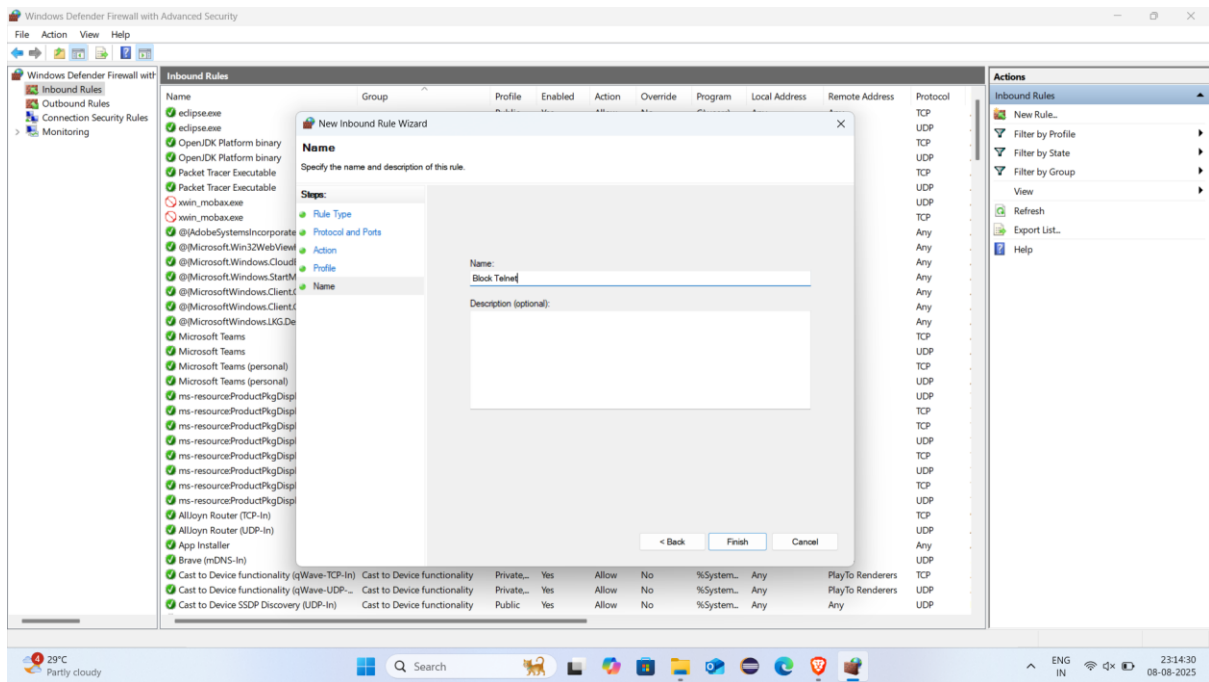
→ **Block the connection.**



→ Choose **All Profiles**

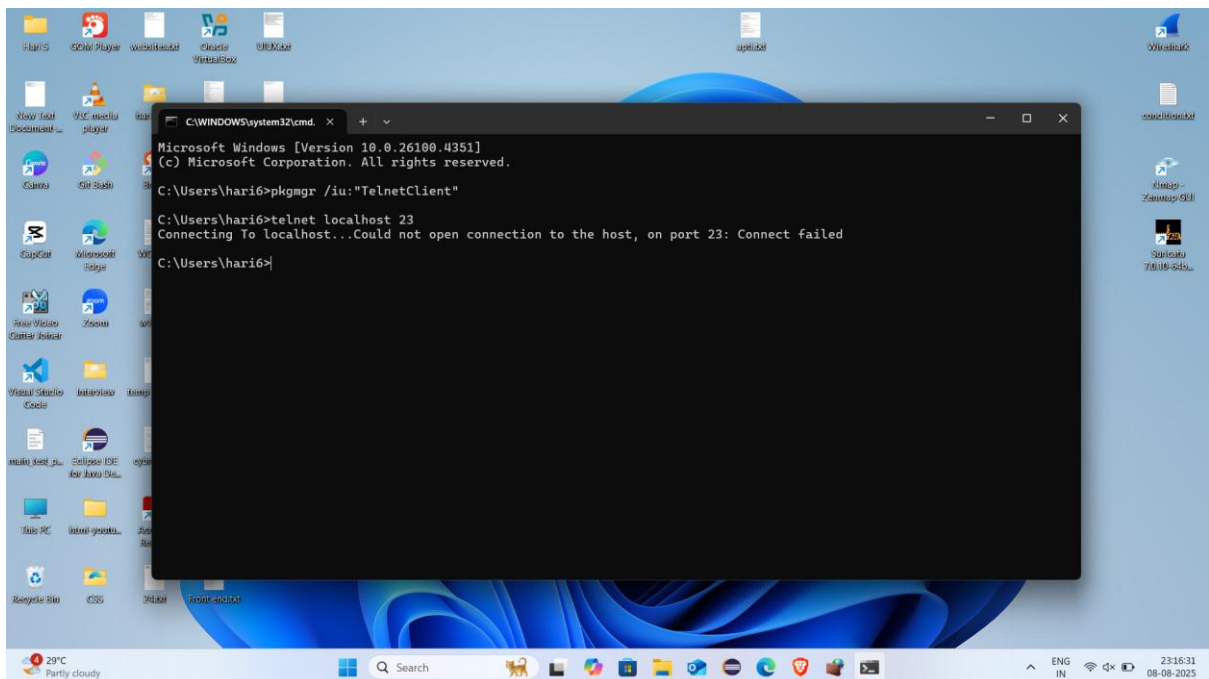


→ Name it **Block Telnet.**



4. Test the Rule

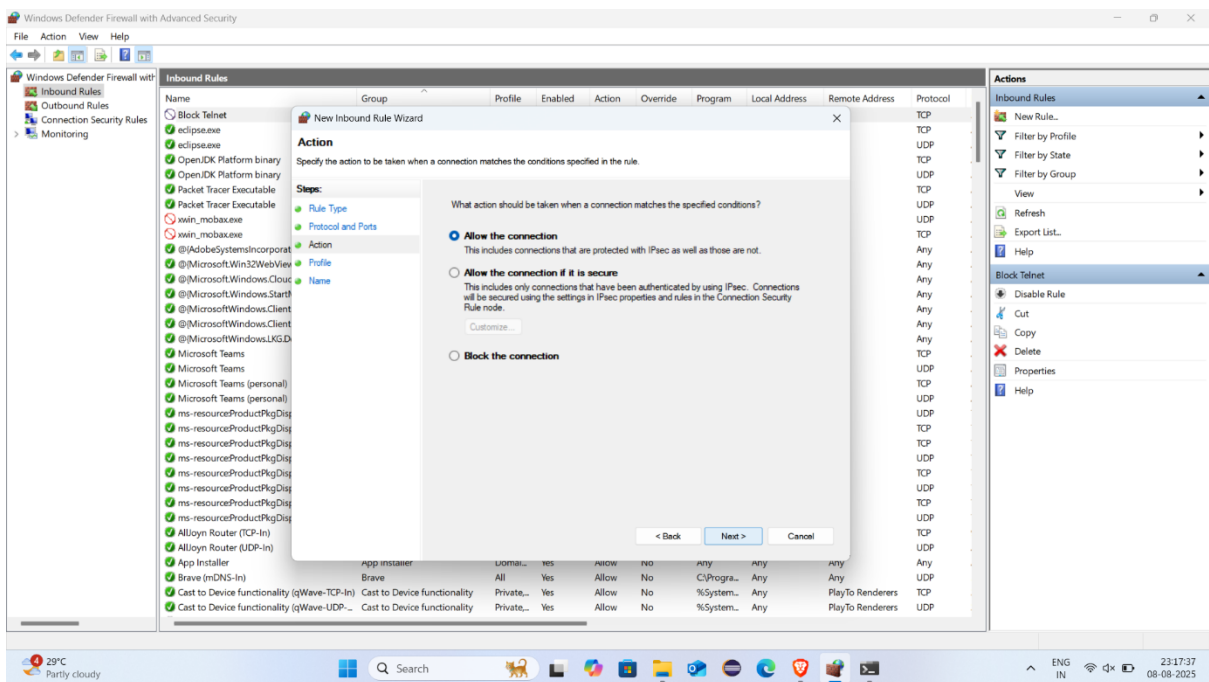
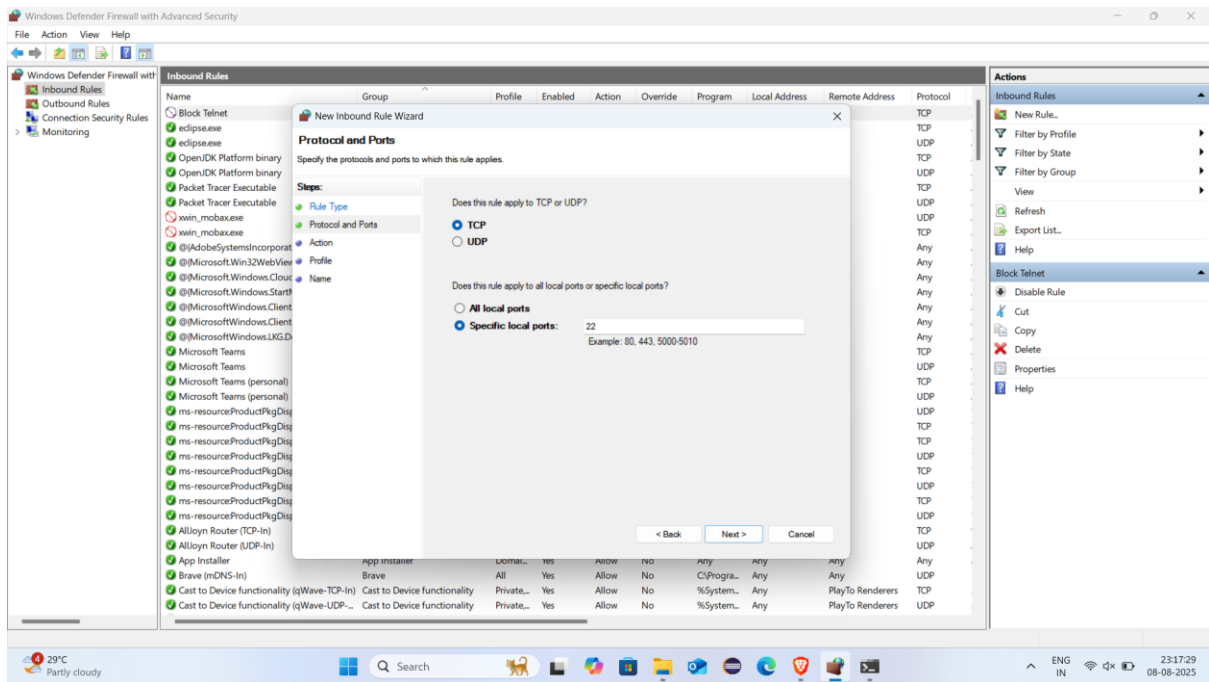
- Install Telnet client (pkgmgr /iu:"TelnetClient" in cmd if needed).
- Run:



- It should fail to connect.

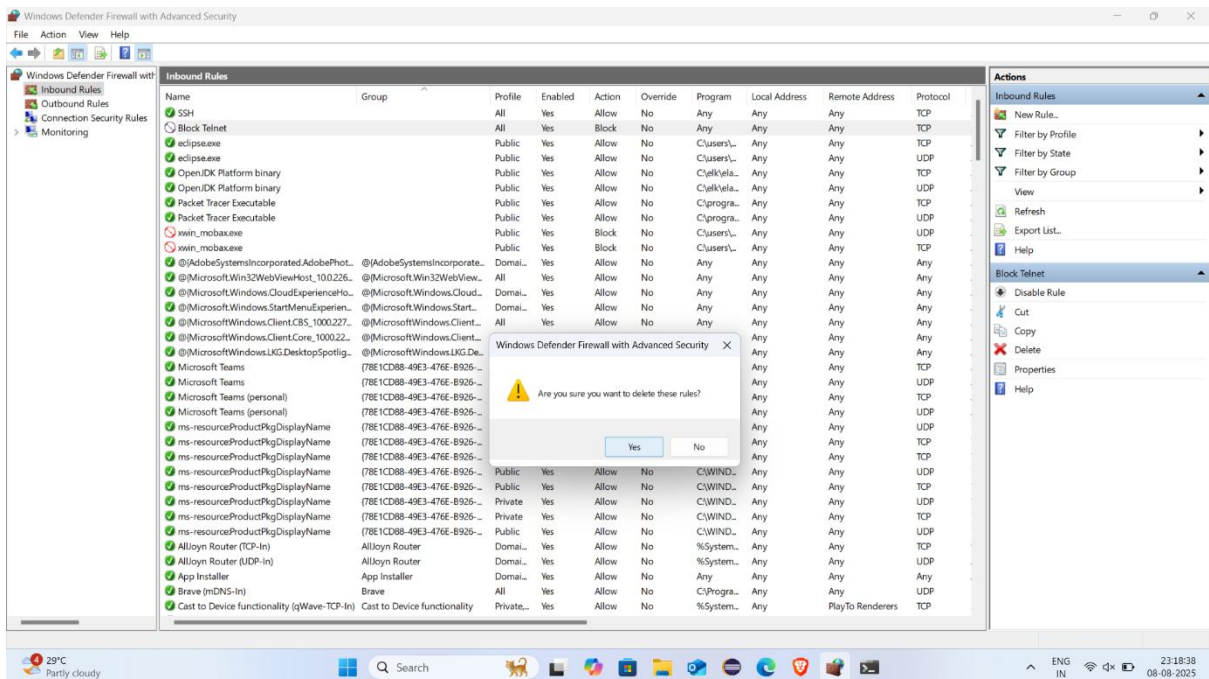
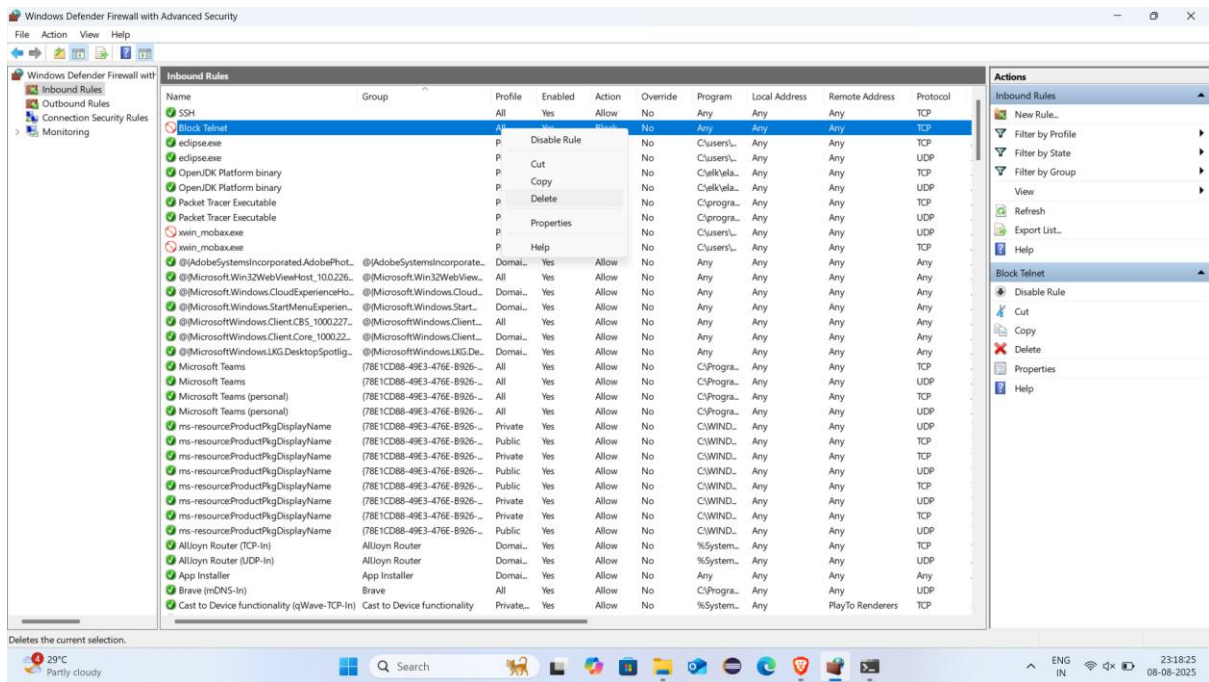
5. Allow SSH (Port 22

- Repeat **New Rule** steps but choose **Allow the connection** and port 22.



6. Remove the Test Block Rule

- Find your Block Telnet rule → Right-click → **Delete**.



7. How Firewall Filters Traffic (Summary)

- Windows Firewall filters traffic by comparing incoming/outgoing packets against its rule set.
- If a packet matches a block rule, it is dropped before reaching the application.
- If it matches an allow rule, it's passed through.
- If no rule matches, the default profile behavior applies (allow or block).