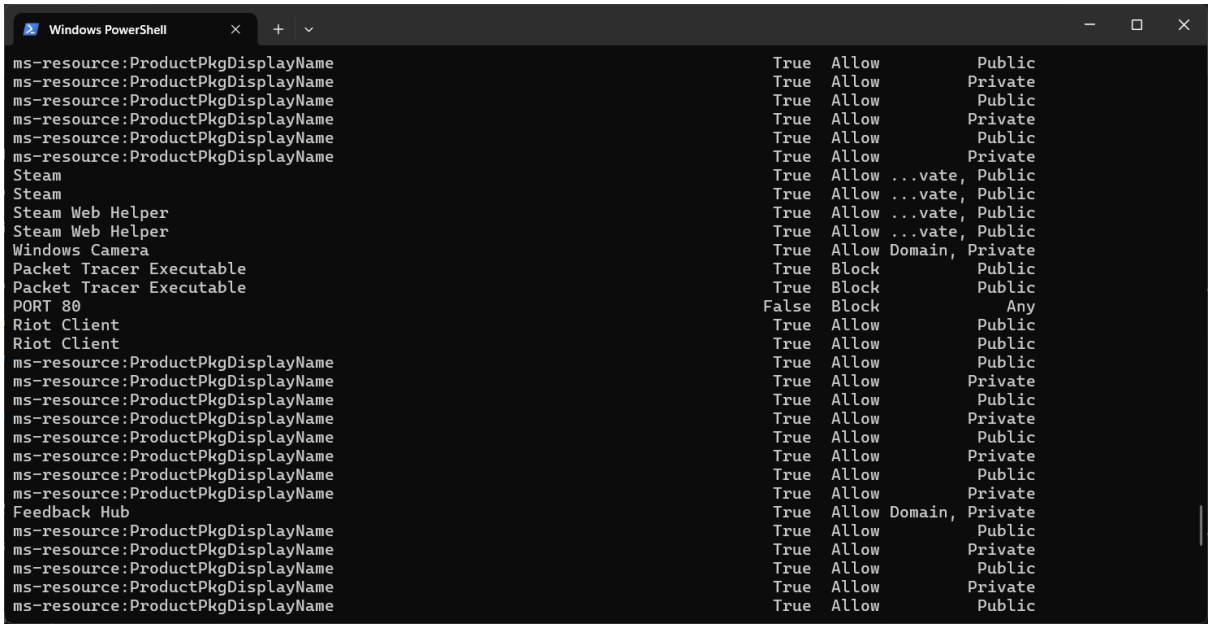
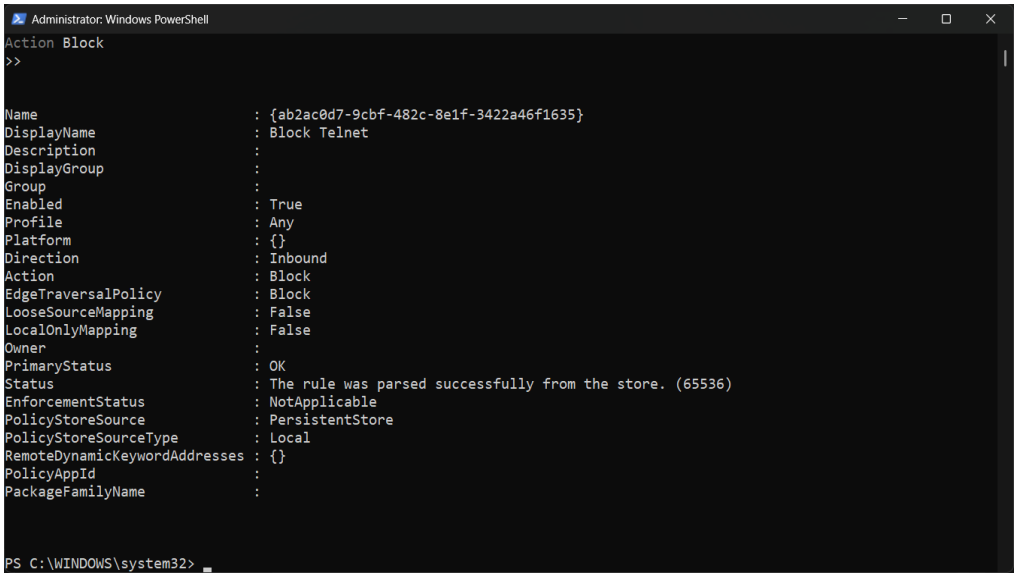
# Task 4 : Setup and Use a Firewall on Windows

**I have attempted to block 2 port (port 23 and 80)**

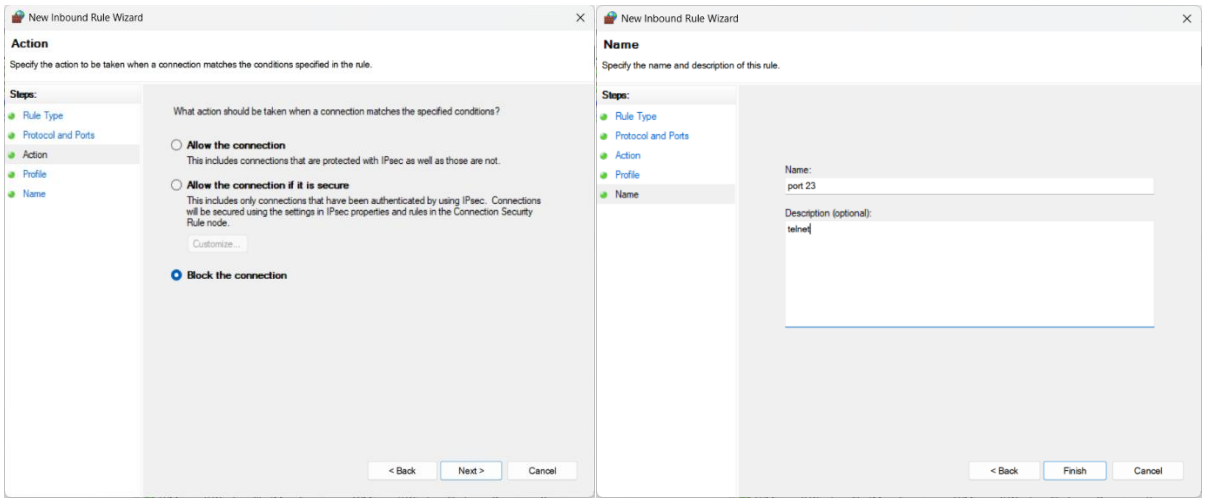
- Port 23 is the default port used by the Telnet protocol.
    - Telnet (Telecommunication Network) is a network protocol that allows users to remotely access and manage devices over a command-line interface.
    - It provides remote login to another machine.
    - Runs on TCP port 23 by default.
    - Communication is unencrypted, meaning usernames, passwords, and commands are sent in plain text.
- Port 80 is the default port for HTTP (Hypertext Transfer Protocol).
    - Used for normal web traffic (browsing websites without encryption).
    - Runs on TCP.
    - Traffic is not encrypted, unlike HTTPS which uses port 443.

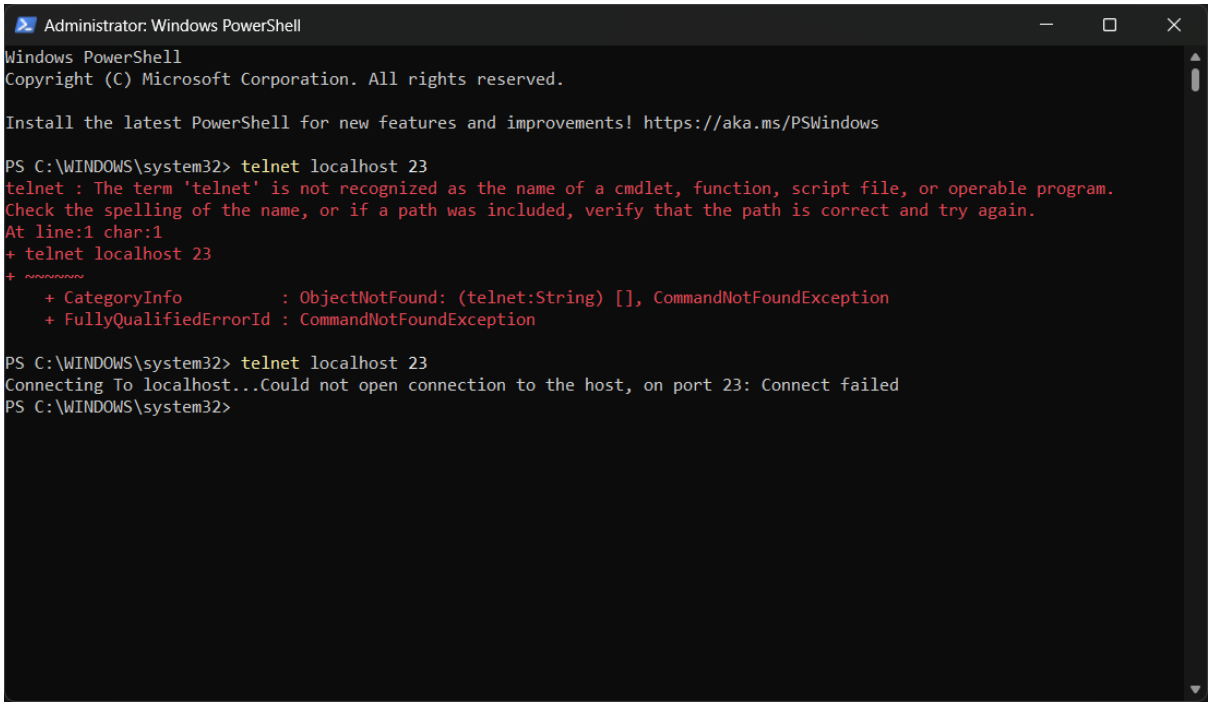



## Rule Added To Block Inbound Traffic On Port 23 For Telnet




## Blocked Through Poweshell






(If the telnet is not installed in the windows OS you will find an error message.)

- If the firewall is blocked the system fails to make a connection.

## GUI Steps:-

- In Inbound Rules, click New Rule → Port → TCP → Specific local ports: 23
- Select Block the connection
- Apply to all profiles (Domain/Private/Public)
- Name the rule Block Telnet → Finish

A firewall filters traffic by inspecting network packets and applying rules based on ports, protocols, IP addresses, and direction. It allows trusted connections while blocking unauthorized or harmful traffic, reducing the system's attack surface.