

Firewall Configuration & Traffic Control Guide

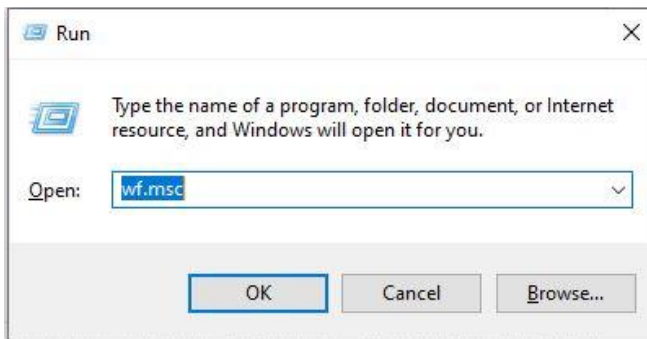
Overview

This document provides step-by-step guidance on configuring firewalls using both Windows and Linux systems. It includes how to block/allow ports, test rules, and understand firewall behavior.

Firewall Configuration on Windows

1. Open Firewall Configuration Tool

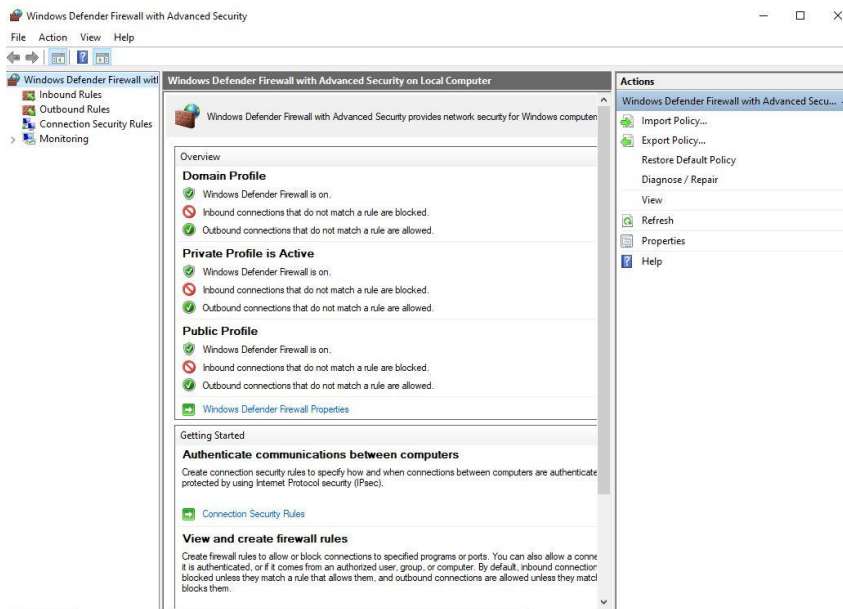
- Press Windows + R, type 'wf.msc', and press Enter.
- Or use PowerShell: `Get-NetFirewallRule`



2. List Current Firewall Rules

PowerShell:

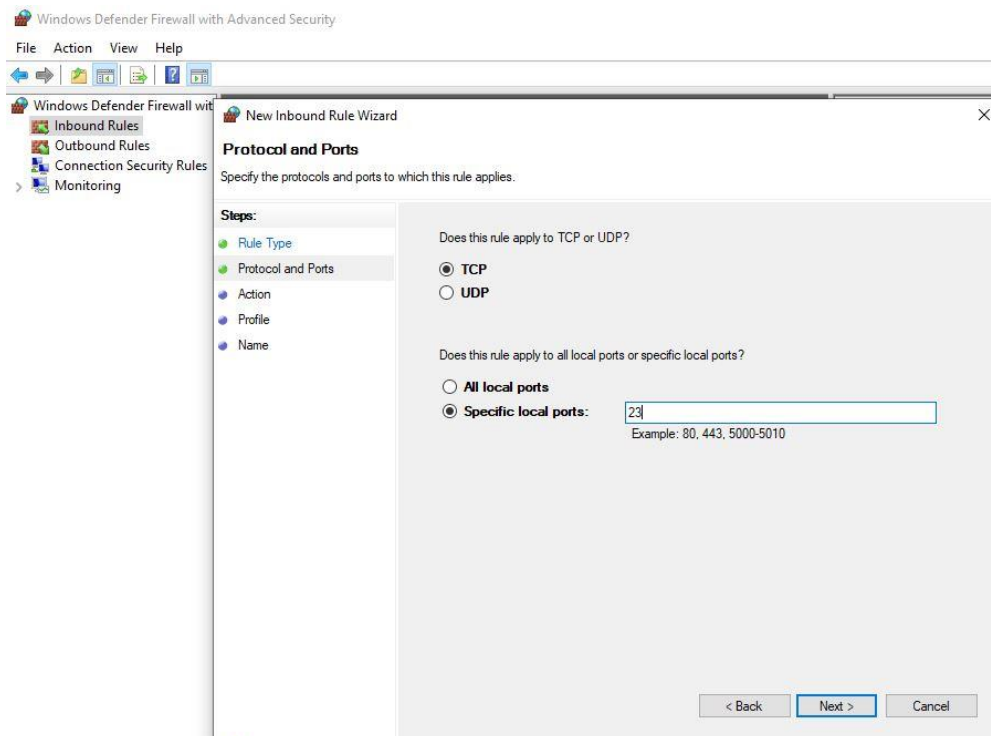
`Get-NetFirewallRule | Format-Table Name, Direction, Action, Enabled`

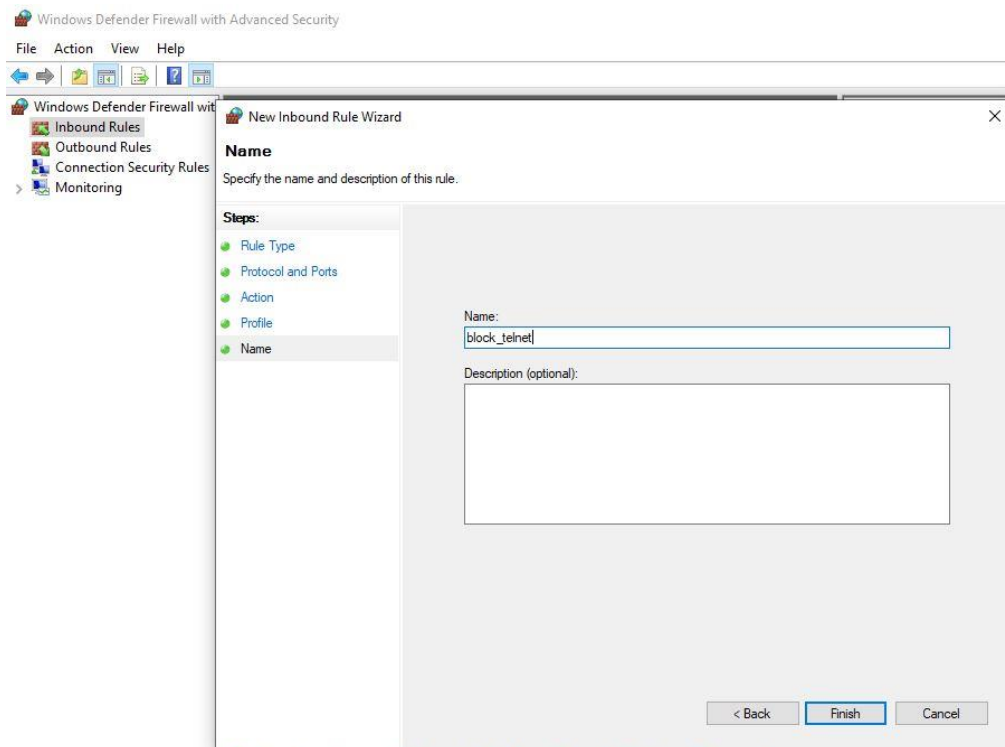


3. Block Inbound Traffic on Port 23 (Telnet)

PowerShell:

```
New-NetFirewallRule -DisplayName "Block Telnet Port 23" -Direction Inbound -LocalPort 23 -Protocol TCP -Action Block
```





4. Test the Rule

Open Command Prompt and run:

telnet 127.0.0.1 23

Note: Enable Telnet Client via 'optionalfeatures' if needed.

```
C:\Users\fsadmin.IEBS20UW>telnet 10.106.181.11 636
Connecting To 10.106.181.11...Could not open connection to the host, on port 636:
: Connect failed
C:\Users\fsadmin.IEBS20UW>_
```

5. Allow SSH (Port 22)

PowerShell:

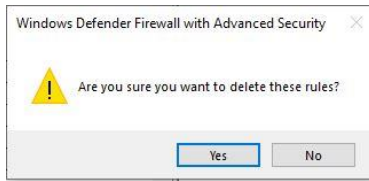
New-NetFirewallRule -DisplayName "Allow SSH Port 22" -Direction Inbound -LocalPort 22 -Protocol TCP -Action Allow

6. Remove Block Rule

PowerShell:

Remove-NetFirewallRule -DisplayName "Block Telnet Port 23"





Firewall Behavior Summary

Firewalls filter traffic by controlling incoming and outgoing network connections based on:

- Port number (e.g., 22 for SSH, 80 for HTTP)
- Protocol (TCP/UDP)
- IP address or range
- Application/process

This helps secure the system against unauthorized access and network-based attacks.