**Windows Firewall Configuration Guide**

This guide provides step-by-step instructions for configuring Windows Defender Firewall with Advanced Security.

**Step 1: Open Firewall Configuration Tool**

1. Press Win + R to open the Run dialog
2. Type wf.msc and press Enter
3. Alternatively: Control Panel → System and Security → Windows Defender Firewall → Advanced settings

**Step 2: List Current Firewall Rules**

1. In the left pane, click on **"Inbound Rules"**
2. Review existing rules in the main panel
3. Note the default rules that are already configured
4. Take a screenshot for documentation purposes

**Step 3: Block Telnet Traffic (Port 23)**

1. Right-click on **"Inbound Rules"** in the left pane
2. Select **"New Rule..."**
3. Choose **"Port"** and click Next
4. Select **"TCP"** and **"Specific local ports"**
5. Enter **"23"** in the ports field
6. Click Next and select **"Block the connection"**
7. Apply to **all profiles** (Domain, Private, Public)
8. Name the rule: **"Block Telnet Port 23"**
9. Add description: **"Test rule to block inbound Telnet connections"**
10. Click Finish

**Step 4: Test the Rule**

Run the following commands in Command Prompt or PowerShell:

# Test from local machine  
telnet localhost 23  
  
# Check if the port is blocked (should fail)  
netstat -an | findstr :23

**Step 5: Create Allow Rule for SSH (Optional)**

1. Right-click on **"Inbound Rules"**
2. Select **"New Rule..."**
3. Choose **"Port"** → **"TCP"** → **"22"**
4. Select **"Allow the connection"**
5. Apply to all profiles
6. Name: **"Allow SSH Port 22"**

**Step 6: Remove Test Rules**

1. Find your **"Block Telnet Port 23"** rule
2. Right-click and select **"Delete"**
3. Confirm the deletion

**Verification Steps**

1. **Verify Rule Creation**:

Get-NetFirewallRule -DisplayName "\*Telnet\*"

1. **Test Connectivity**:

telnet localhost 23  
# Should return: "Could not open connection to the host"

1. **Check Windows Event Log**:
   * Open Event Viewer
   * Navigate to Windows Logs → Security
   * Look for Event ID 5152 (blocked connection)

**🔍 Troubleshooting**

**Common Issues**

* **Access Denied**: Ensure you're running as Administrator
* **Rule Not Working**: Check rule order and conflicting rules
* **Service Dependencies**: Verify Windows Firewall service is running

**Useful Commands**

# Check firewall service status  
Get-Service -Name "MpsSvc"  
  
# View all firewall profiles  
Get-NetFirewallProfile  
  
# Export firewall configuration  
netsh advfirewall export "C:\firewall-backup.wfw"