

Firewall Configuration Task Report - Windows

Overview

This report documents the steps performed to configure and test firewall rules on a Windows machine using Windows Defender Firewall and the command prompt. The task involved blocking inbound Telnet traffic (port 23), testing the block, and restoring the firewall to its original state.

Tools Used

1. Windows Defender Firewall with Advanced Security (GUI)
2. Command Prompt (Administrator mode)
3. Telnet Client (installed for testing connectivity)

Commands Used

The following commands were used during the task:

Check firewall rules:

```
netsh advfirewall firewall show rule name=all
```

Add rule to block Telnet (port 23):

```
netsh advfirewall firewall add rule name="Block Telnet" dir=in action=block protocol=TCP  
localport=23
```

Enable Telnet client:

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

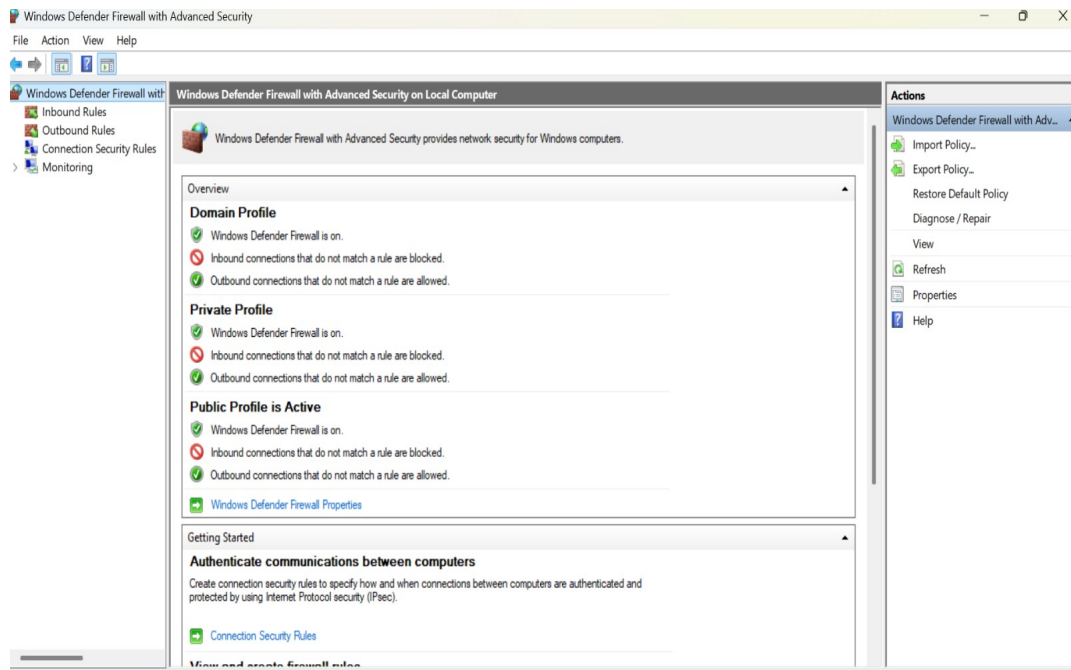
Test Telnet connection:

```
telnet localhost 23
```

Remove the block rule:

```
netsh advfirewall firewall delete rule name="Block Telnet"
```

Screenshots



```
Administrator: Command Prompt
LocalPort: Any
RemotePort: 2869
Edge traversal: No
Action: Allow
Ok.

C:\Windows\System32\netsh advfirewall firewall add rule name="Block Telnet" dir=in action=block protocol=TCP localport=23
Ok.

C:\Windows\System32>telnet localhost 23
'telnet' is not recognized as an internal or external command,
operable program or batch file.

C:\Windows\System32>telnet localhost 23
'telnet' is not recognized as an internal or external command,
operable program or batch file.

C:\Windows\System32>dism /online /Enable-Feature /FeatureName:TelnetClient
Deployment Image Servicing and Management tool
Version: 10.0.26100.5074
Image Version: 10.0.26100.6584
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>netsh advfirewall firewall delete rule name="Block Telnet"
Deleted 1 rule(s).
Ok.

C:\Windows\System32>
```

Firewall Rules

1. Added inbound block rule for TCP port 23 (Telnet).
2. Verified Telnet connection was blocked.
3. Removed the Telnet block rule to restore firewall to original state.

Outcome

The firewall successfully blocked inbound Telnet traffic on port 23 as expected. Testing with the Telnet client confirmed that the connection attempt failed. After removing the rule, the firewall reverted to its original state. This demonstrates how Windows Firewall can effectively filter traffic

based on rules defined by the system administrator.