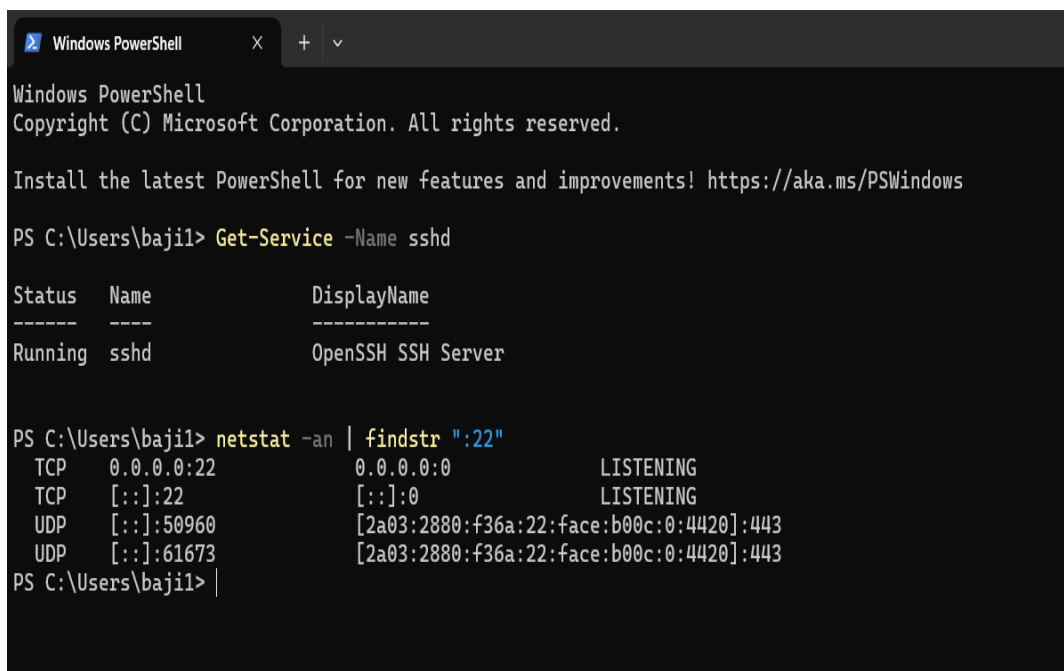


Firewall Configuration and Testing Report

This report documents the configuration and testing of firewall rules on Windows using Windows Defender Firewall. It includes steps followed, rules created, and verification through screenshots.

1. Open Windows Defender Firewall configuration tool.
2. Listed current firewall rules using the GUI.
3. Added a rule to block inbound traffic on Telnet port 23.
4. Tested the rule by attempting a connection to port 23 (it was blocked).
5. (Linux step skipped for Windows).
6. Removed the block rule to restore the original state.
7. Documented all steps and screenshots.
8. Summarized firewall's role in filtering traffic.



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\bajil> Get-Service -Name sshd

Status      Name      DisplayName
-----
Running     sshd      OpenSSH SSH Server

PS C:\Users\bajil> netstat -an | findstr ":22"
TCP        0.0.0.0:22      0.0.0.0:0      LISTENING
TCP        [::]:22        [::]:0         LISTENING
UDP        [::]:50960     [2a03:2880:f36a:22:face:b00c:0:4420]:443
UDP        [::]:61673     [2a03:2880:f36a:22:face:b00c:0:4420]:443
PS C:\Users\bajil> |
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\bajil> Get-Service -Name sshd

Status Name          DisplayName
-----
Running sshd         OpenSSH SSH Server

PS C:\Users\bajil> |
```

```
Windows PowerShell

{E20EBAA9-7965-4CE9-BD06-15C2028978D8}      True    Inbound    Allow
{B4B9AF4B-1783-4EC2-8E59-ECD633B553B5}      True    Outbound   Allow
{5134F222-7F3A-44D0-9019-80F8A6F34BAE}      True    Outbound   Allow
{210C2BE1-10BB-4368-995F-ED9BA65ACC5B}      True    Outbound   Allow
{937C27BE-5008-42A7-B4C5-482678849FDD}      True    Outbound   Allow
{A17077D3-E58F-4CFE-A69E-5E3EDC9BCA52}      True    Outbound   Allow
{171A94A3-0CC3-4E91-9E2D-99017B7D991A}      True    Inbound    Allow
{10200878-88C7-461C-8F0B-8F943D066428}      True    Outbound   Allow
{6FADF4B9-C87D-43D6-AEF8-580DE7FD1119}      True    Outbound   Allow
{42968AE3-2C30-4767-B0CA-0B2C28B2CECE}      True    Outbound   Allow
{62187020-8714-4988-B35A-D96AF10D6BE1}      True    Inbound    Allow

PS C:\Users\bajil> Test-NetConnection -ComputerName localhost -Port 23
WARNING: TCP connect to (::1 : 23) failed
WARNING: TCP connect to (127.0.0.1 : 23) failed

ComputerName      : localhost
RemoteAddress     : ::1
RemotePort        : 23
InterfaceAlias    : Loopback Pseudo-Interface 1
SourceAddress     : ::1
PingSucceeded     : True
PingReplyDetails (RTT) : 0 ms
TcpTestSucceeded  : False

PS C:\Users\bajil> |
```

Summary: A firewall filters network traffic by allowing or blocking connections based on defined rules. It helps protect systems from unauthorized access and malicious traffic.