Firewall Setup and Testing Report

Objective:

To configure, test, and verify firewall rules on **Windows (Windows Defender Firewall)** and **Linux (UFW - Uncomplicated Firewall)** to **allow or block traffic**.

◆ Windows Firewall Configuration (PowerShell & Netsh)

1. Check Existing Firewall Rules

To list firewall rules related to Telnet, run:

~~~~
```Get-NetFirewallRule | Where-Object { $_.DisplayName -like "*Telnet*" } ```
~~~~

2. Block Telnet (Port 23) - PowerShell

Run in **PowerShell (Administrator Mode)**:

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

(If this command fails, ensure PowerShell is run as Administrator.)

3. Alternative Firewall Block (Using Netsh in CMD)

If the PowerShell command doesn’t work, use the **Netsh** method:

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

4. Block Outbound Telnet Traffic

To block outgoing Telnet connections, run:

~~~~
```netsh advfirewall firewall add rule name="Block Telnet" dir=out action=block
protocol=TCP remoteport=23 ```
~~~~

`5. Verify Firewall Rules

Run:

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

(Ensure the rule appears with correct settings.)

6. Test if Telnet is Blocked

Try to connect using:

```
telnet telehack.com 23
```

- If the firewall is **correctly configured**, the connection **should fail**.

7. Remove Firewall Rule (If Needed)

To delete the Telnet block rule:

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

◆ **Linux Firewall Configuration (UFW - Uncomplicated Firewall)**

1. Install UFW (If Not Installed)

Run:

```
sudo apt update && sudo apt install ufw -y
```

2. Check Current UFW Status

Run:

```
sudo ufw status
```

- If UFW is **inactive**, enable it:

  ```
  sudo ufw enable
  ```

3. Block Telnet (Port 23)

Run:

```
sudo ufw deny 23/tcp
```

(This prevents Telnet connections on Linux.)

4. Allow Telnet (If Needed)

To permit Telnet connections, use:

```
sudo ufw allow 23/tcp
```

5. Verify UFW Firewall Rules

Run:

```
sudo ufw status numbered
```

(This displays all active firewall rules.)

6. Delete Firewall Rule (If Needed)

Find the rule number using:

```
sudo ufw status numbered
```

Then remove it using:

```
sudo ufw delete [rule_number]
```

7. Test if Telnet is Blocked

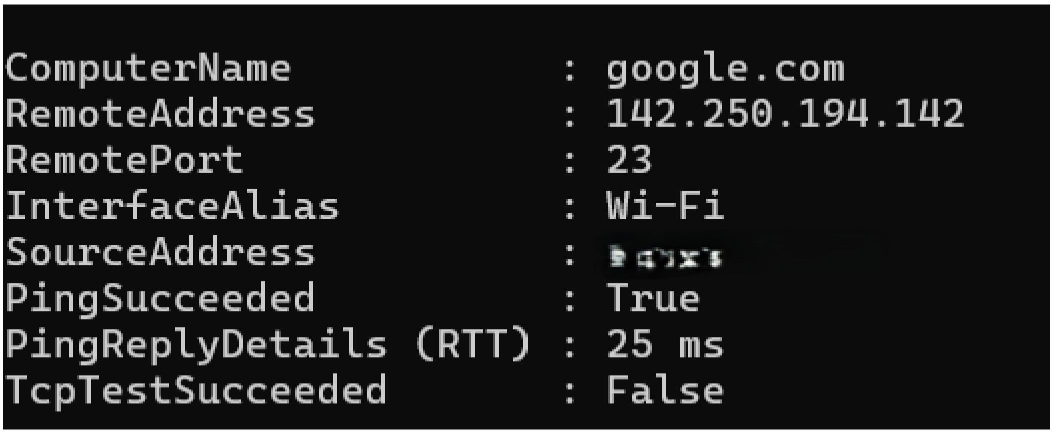
Try:

```
telnet telehack.com 23
```

- If correctly configured, Telnet **should fail** to connect.

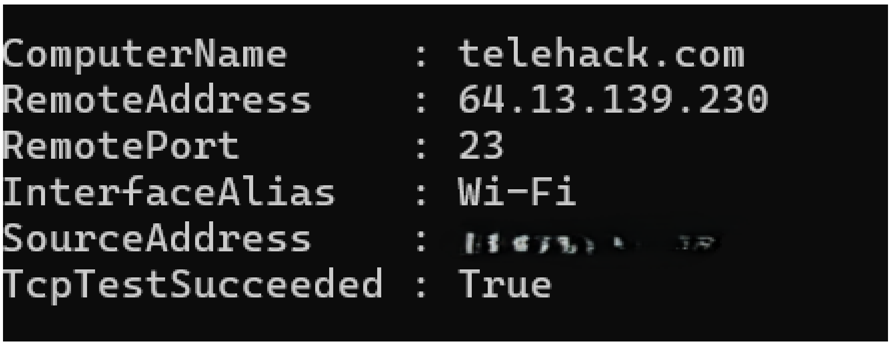
Screenshots:

1) Tried with this first but the connection keeps failing



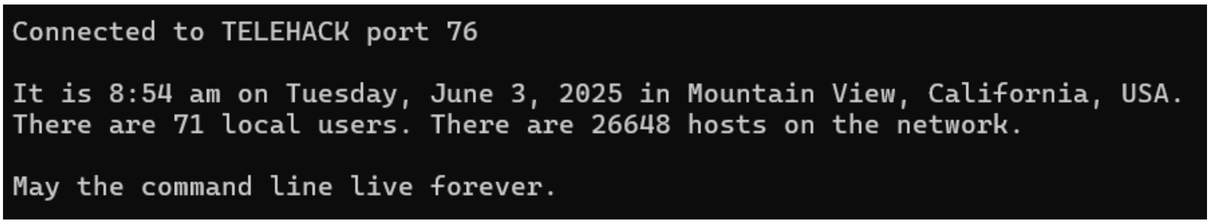
```
ComputerName           : google.com
RemoteAddress          : 142.250.194.142
RemotePort             : 23
InterfaceAlias         : Wi-Fi
SourceAddress          : [redacted]
PingSucceeded          : True
PingReplyDetails (RTT) : 25 ms
TcpTestSucceeded       : False
```

2) Then tried using other domain which worked out pretty well a lot of games to play too (I recommend trying this)



```
ComputerName     : telehack.com
RemoteAddress    : 64.13.139.230
RemotePort       : 23
InterfaceAlias   : Wi-Fi
SourceAddress    : [redacted]
TcpTestSucceeded : True
```

This is what happened when this got connected



```
Connected to TELEHACK port 76

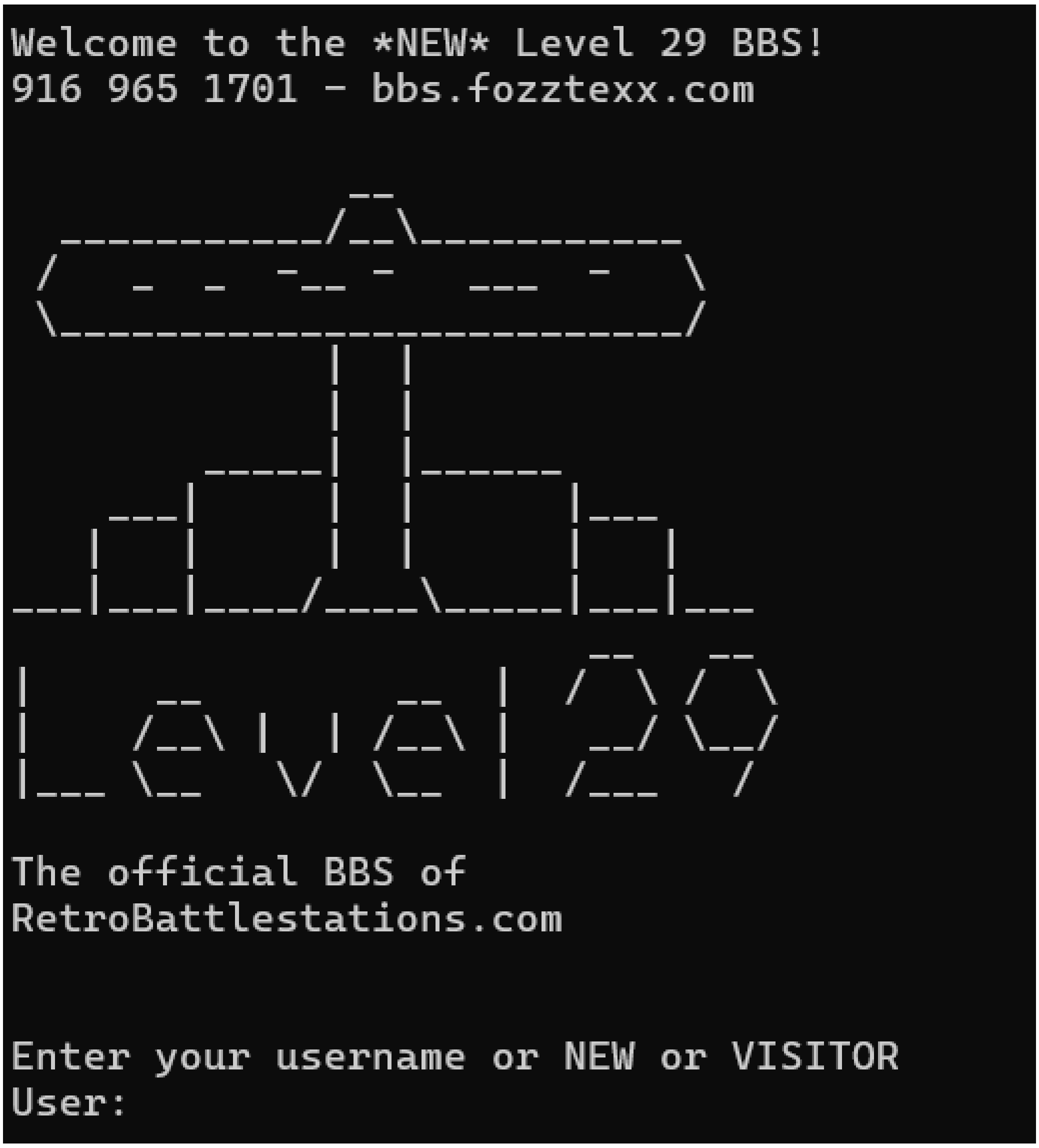
It is 8:54 am on Tuesday, June 3, 2025 in Mountain View, California, USA.
There are 71 local users. There are 26648 hosts on the network.

May the command line live forever.
```

** May the CLI lives forever **

Also you can find many commands down this which I didn't included for you to explore you can check out each of it (for eg., .roll)

3) Then I tried something new too related to ASCII



```
Welcome to the *NEW* Level 29 BBS!
916 965 1701 - bbs.fozztexx.com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The official BBS of
RetroBattlestations.com


Enter your username or NEW or VISITOR
User:
```

See that try out playing the spaceship by creating your username and password

Tips:

1) If asked which ansi to choose : type “ansi”

2) For character set you can type any one of them : (I) UTF-8 (II) ASCII (III) ISO-8859-1

🎯 **Summary of Steps Completed**

✅ **Windows Firewall configured & tested** (Inbound & Outbound rules applied)
✅ **Linux UFW firewall configured & tested** (Telnet blocked successfully)
✅ **Rules verified on both systems**
✅ **Screenshots or config files created to confirm setup**