## Task 4: Setup and Use a Firewall on Windows

### Objective

To configure and test basic firewall rules to allow or block traffic using Windows Firewall.

### Tools Used

- Windows Firewall with Advanced Security
- Telnet Client (for testing blocked port)
- Windows 11 OS

### Steps Performed

#### Step 1: Open Firewall Configuration Tool

Opened Windows Defender Firewall with Advanced Security

#### Step 2: View Current Firewall Rules

Checked existing inbound and outbound rules.

#### Step 3: Create a Rule to Block Telnet (Port 23)

Created a new inbound rule with:

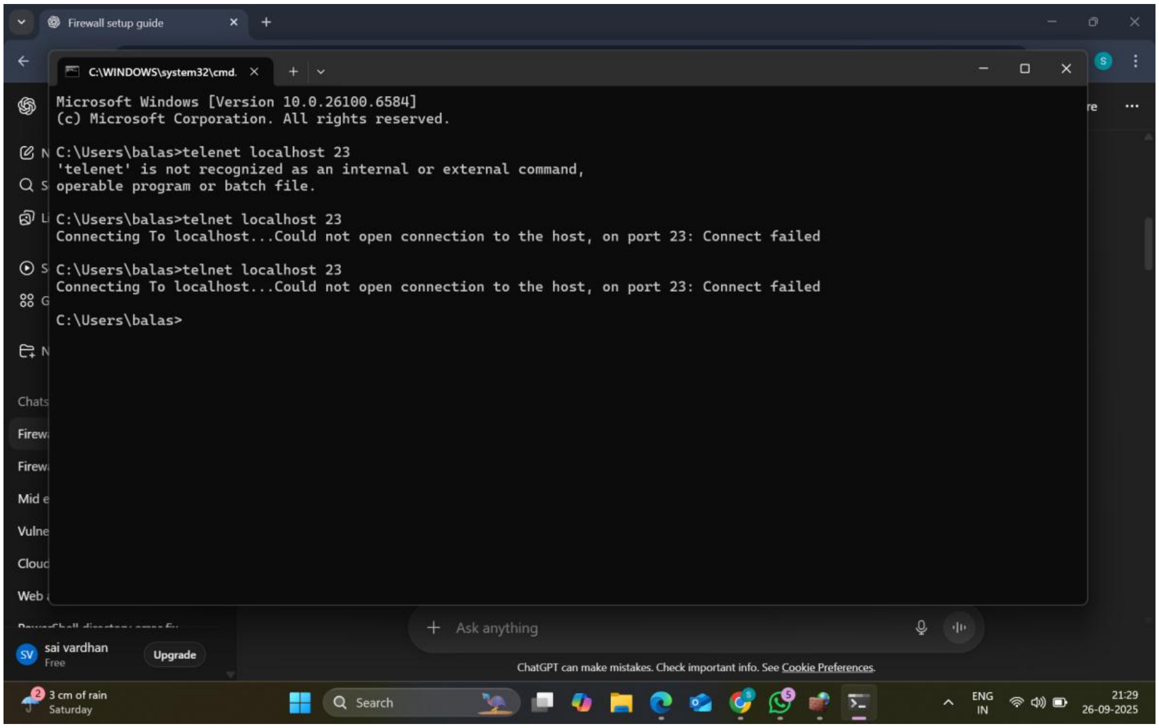
- Rule Type: Port
- Protocol: TCP
- Port Number: 23
- Action: Block the connection
- Applied To: Domain, Private, Public
- Rule Name: Block Telnet

#### Step 4: Test the Rule

Installed and enabled Telnet Client.
Opened Command Prompt and ran:

```
telnet localhost 23
```

Result: Connection failed, proving the firewall blocked traffic on port 23.



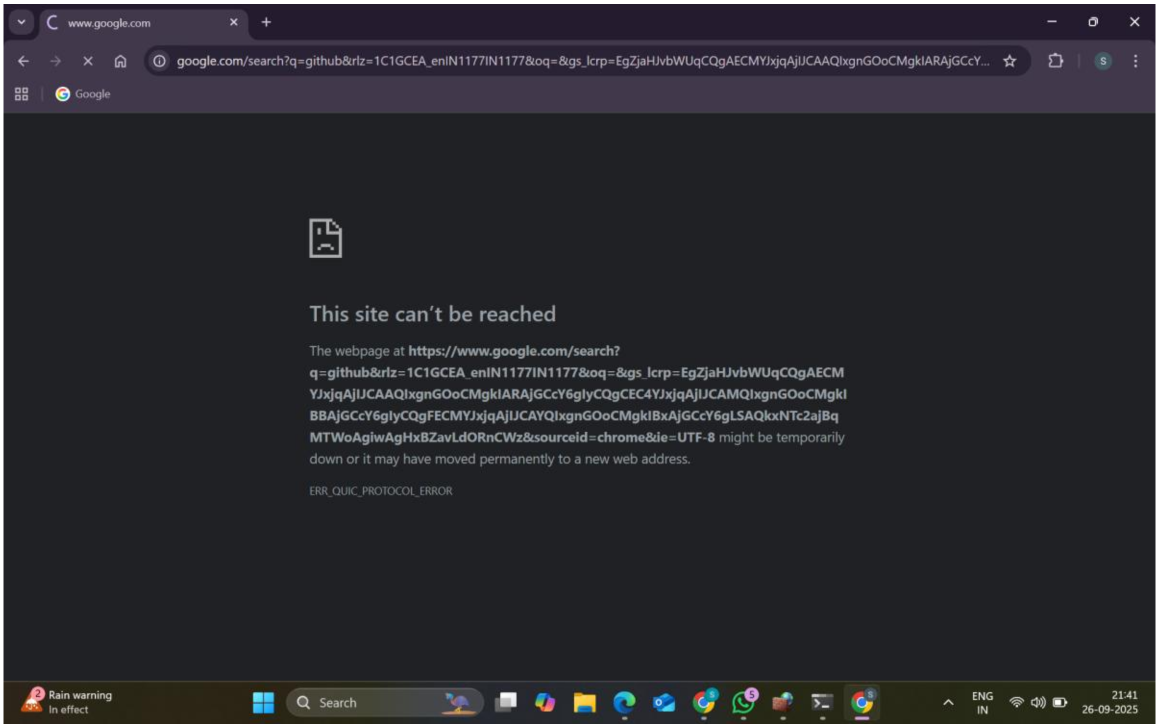
```
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\Users\balas>telenet localhost 23
'telenet' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\balas>telnet localhost 23
Connecting To localhost...Could not open connection to the host, on port 23: Connect failed

C:\Users\balas>telnet localhost 23
Connecting To localhost...Could not open connection to the host, on port 23: Connect failed

C:\Users\balas>
```

### Step 5: Remove the Test Rule

Deleted the 'Block Telnet' inbound rule to restore the firewall to its original state.

# Also created a new outbound rule blocked chrome

## rule name: chrome



www.google.com
google.com/search?q=github&rlz=1C1GCEA_enIN1177IN1177&oq=&gs_lcrp=EgZjaHJvbWUqCQgAECMYJxjqAjIJCAAQIxgnGOoCMgkIARAjGCcY...
Google
Rain warning
In effect
Search
ENG
IN
21:41
26-09-2025

This site can't be reached

The webpage at **https://www.google.com/search?q=github&rlz=1C1GCEA_enIN1177IN1177&oq=&gs_lcrp=EgZjaHJvbWUqCQgAECMYJxjqAjIJCAAQIxgnGOoCMgkIARAjGCcY6gIyCQgCEC4YJxjqAjIJCAMQIxgnGOoCMgkIBBAjGCcY6gIyCQgFECMYJxjqAjIJCAYQIxgnGOoCMgkIBxAjGCcY6gLSAQkxNTc2ajBqMTWoAgiwAgHxBZavLdORnCWz&sourceid=chrome&ie=UTF-8** might be temporarily down or it may have moved permanently to a new web address.

ERR_QUIC_PROTOCOL_ERROR

## Summary

Firewalls work as a traffic filter, controlling incoming and outgoing connections.
In this task, Telnet (port 23) was blocked successfully, demonstrating how firewall rules can protect against unauthorized access.
Testing confirmed that the firewall blocked the connection while allowing normal system operations.

## Deliverables Completed

- Documented steps
- Firewall screenshots
- Telnet test proof

Chrome blocked