Firewall Configuration Report and Setup Procedure

Remote Desktop, and the connection failed as expected.

**Objective:** To configure and test basic firewall rules on Windows and Linux to allow or block network traffic.
### **Windows Firewall Configuration**
**1. Setup Procedure:**
* **Accessing the Firewall:** I accessed the "Windows Firewall with Advanced Security" by running `wf.msc`.
* **Creating an Inbound Rule (Block RDP):**
* I created a new inbound rule.
* Rule Type: Port
* Protocol and Ports: TCP, port 3389
* Action: Block the connection
* Profile: All (Domain, Private, Public)
* Name: "Block RDP Access"
* **Creating an Outbound Rule (Allow Application):**
* I created a new outbound rule.
* Rule Type: Program
* Program Path: [Path to the application's .exe file]
* Action: Allow the connection
* Profile: All (Domain, Private, Public)
* Name: "Allow [Application Name] Internet"
**2. Testing and Verification:**
* To test the "Block RDP" rule, I attempted to connect from another machine on the network using

* To test the "Allow Application" rule, I ran the application and confirmed it could access the internet.
**3. Configuration Output:**
[Insert screenshot of the Windows Firewall rules or a note that the .wfw policy file is attached.]
### **Linux (UFW) Firewall Configuration**
**1. Setup Procedure:**
* **Installation and Initial Setup:** I installed UFW using `sudo apt install ufw` and checked its status.
* **Default Policies:** I set the default policies to deny incoming traffic and allow outgoing traffic using:
* `sudo ufw default deny incoming`
* `sudo ufw default allow outgoing`
* **Creating Rules:**
* I allowed SSH traffic: `sudo ufw allow ssh`
* I allowed HTTP and HTTPS traffic: `sudo ufw allow http` and `sudo ufw allow https`
* I blocked traffic on port 8080: `sudo ufw deny 8080`
* **Enabling the Firewall:** I enabled UFW with `sudo ufw enable`.
**2. Testing and Verification:**
* I confirmed I could still connect via SSH after enabling the firewall.
* I attempted to access a service on port 8080 from another machine, and the connection was refused, as expected.

\* I could access web services on ports 80 and 443.

## \*\*3. Configuration Output:\*\*

Status: active Logging: on (low)

Default: deny (incoming), allow (outgoing), disabled (routed)

New profiles: skip

To Action From

22/tcp ALLOW IN Anywhere 80/tcp ALLOW IN Anywhere 443/tcp ALLOW IN Anywhere 8080 DENY IN Anywhere 22/tcp (v6) ALLOW IN Anywhere (v6) 80/tcp (v6) ALLOW IN Anywhere (v6) 443/tcp (v6) ALLOW IN Anywhere (v6) 8080 (v6) DENY IN Anywhere (v6)

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\*\*Outcome and Skills Gained:\*\*

Through this task, I have learned the fundamental principles of network traffic filtering. I am now able to set up, configure, and manage basic firewall rules on both Windows and Linux systems to enhance security by controlling inbound and outbound network connections. I have also gained practical experience in testing firewall rules to ensure they are functioning as intended.