

## **Firewall Configuration Report**

# **Eleyate Cyber Security Internship - Task 4**

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## **1. Introduction**

This report summarizes the setup and basic usage of a firewall on a Linux system using UFW.

## **2. Methodology**

Steps included enabling UFW, blocking port 23, allowing port 22, and testing rules.

## **3. Interview Questions and Answers**

### **1. What is a firewall?**

A firewall is a security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

### **2. Difference between stateful and stateless firewall?**

Stateful firewalls track the state of active connections and make decisions based on context, while stateless firewalls make decisions based solely on predefined rules.

### **3. What are inbound and outbound rules?**

Inbound rules control traffic coming into the device, while outbound rules control traffic going out from the device.

### **4. How does UFW simplify firewall management?**

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UFW provides a user-friendly command-line interface for managing iptables, making it easier to configure basic firewall rules without deep networking knowledge.

### **5. Why block port 23 (Telnet)?**

Port 23 is used by Telnet, which transmits data in plaintext and is considered insecure. Blocking it reduces the attack surface.

### **6. What are common firewall mistakes?**

Common mistakes include leaving unnecessary ports open, using weak rules, forgetting to save changes, and not monitoring traffic.

### **7. How does a firewall improve network security?**

Firewalls prevent unauthorized access, reduce the risk of attacks, and help enforce security policies by controlling traffic flow.

### **8. What is NAT in firewalls?**

NAT (Network Address Translation) allows multiple devices on a local network to share a single public IP address, improving security by masking internal IPs.