## Task 4: Setup and Use a Firewall on Kali Linux using UFW

#### **Tools Used**

• OS: Kali Linux

• Firewall Tool: UFW (Uncomplicated Firewall)

## **Steps Performed**

## 1. Install and Enable UFW

sudo apt update sudo apt install ufw -y sudo ufw enable

#### 2. Check Current Firewall Status

sudo ufw status verbose

# 3. Block Inbound Traffic on Port 23 (Telnet)

sudo ufw deny 23

This blocks Telnet, which is insecure and transmits data in plaintext.

### 4. Test Rule

• Start a listener:

sudo nc -lvp 23

• From another terminal:
telnet 127.0.0.1 23
Expected result: Connection should be blocked or refused.
5. Allow SSH (Port 22)
sudo ufw allow 22
Ensures SSH access is not blocked, especially important for remote systems.
6. Remove Test Block Rule
• First, list numbered rules:
sudo ufw status numbered
• Then delete the specific rule:
sudo ufw delete [22]
7. Final Status Check
sudo ufw status verbose
Confirm only essential rules remain.
Outputs:



