# Task 4: Setup and Use UFW Firewall on Linux

System: Ubuntu/Linux with UFW

#### Step 1: Install and Enable UFW

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

#### **Step 2: List Current Firewall Rules**

sudo ufw status numbered (Take a screenshot here for deliverable)

#### Step 3: Block Inbound Traffic on Port 23 (Telnet)

sudo ufw deny 23/tcp

# Step 4: Test the Rule

telnet localhost 23 # Or from remote: telnet <your-ip> 23

# **Step 5: Allow SSH on Port 22**

sudo ufw allow 22/tcp

# **Step 6: Remove the Telnet Rule**

sudo ufw delete deny 23/tcp

# **Step 7: Documented Commands Used**

sudo apt update sudo apt install ufw -y sudo ufw enable sudo ufw status numbered sudo ufw deny 23/tcp telnet localhost 23 sudo ufw allow 22/tcp sudo ufw delete deny 23/tcp

### **Step 8: Output difference**



#### Step 9: Summary – How UFW Filters Traffic

UFW (Uncomplicated Firewall) is a user-friendly interface for iptables. It allows administrators to easily allow or block traffic by port, IP, or protocol. Blocking Telnet (port 23) and allowing SSH (port 22) demonstrates secure access control. Firewall rules protect systems by reducing exposed attack surfaces.