Task 4: Setup and Use a Firewall on Linux (UFW)

Objective

Configure and test basic firewall rules to allow or block traffic.

Tools

UFW (Uncomplicated Firewall) on Kali Linux.

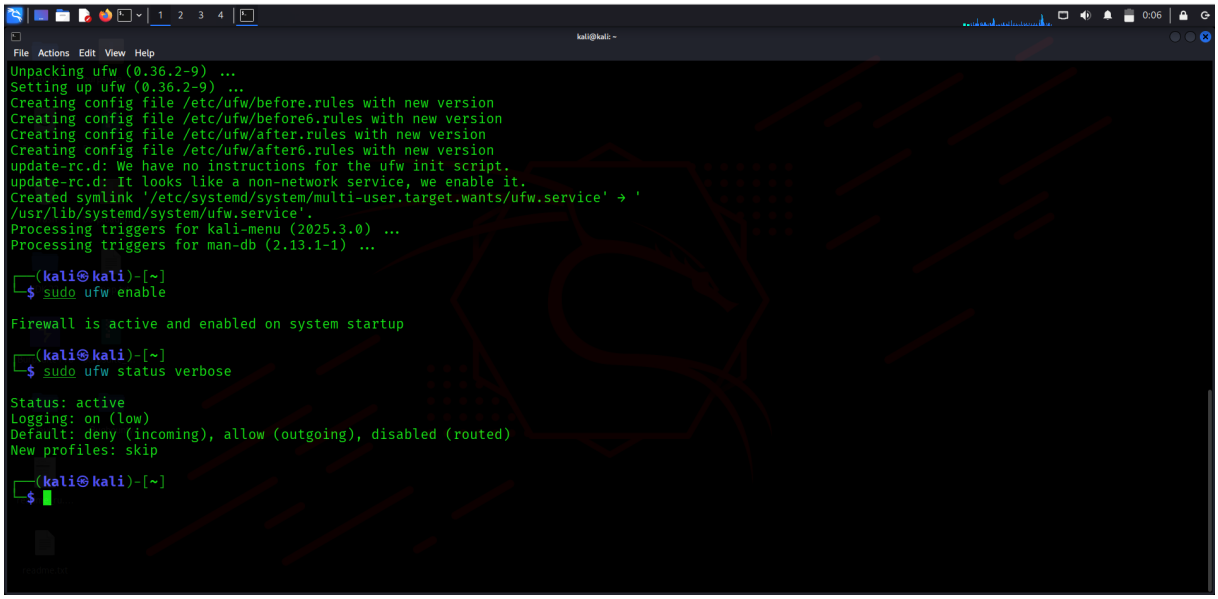
Steps & Screenshots

1. Enable UFW:

sudo apt install ufw -y

sudo ufw enable

sudo ufw status verbose



Screenshot 1: UFW enabled and showing status.

2. List Current Rules:

sudo ufw status numbered

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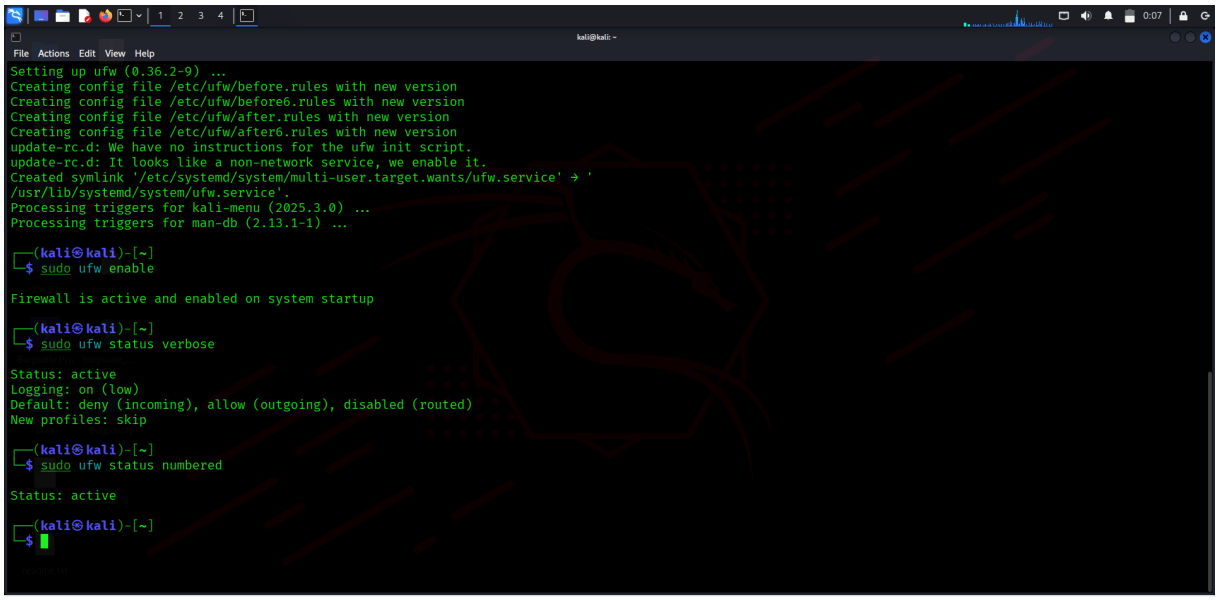
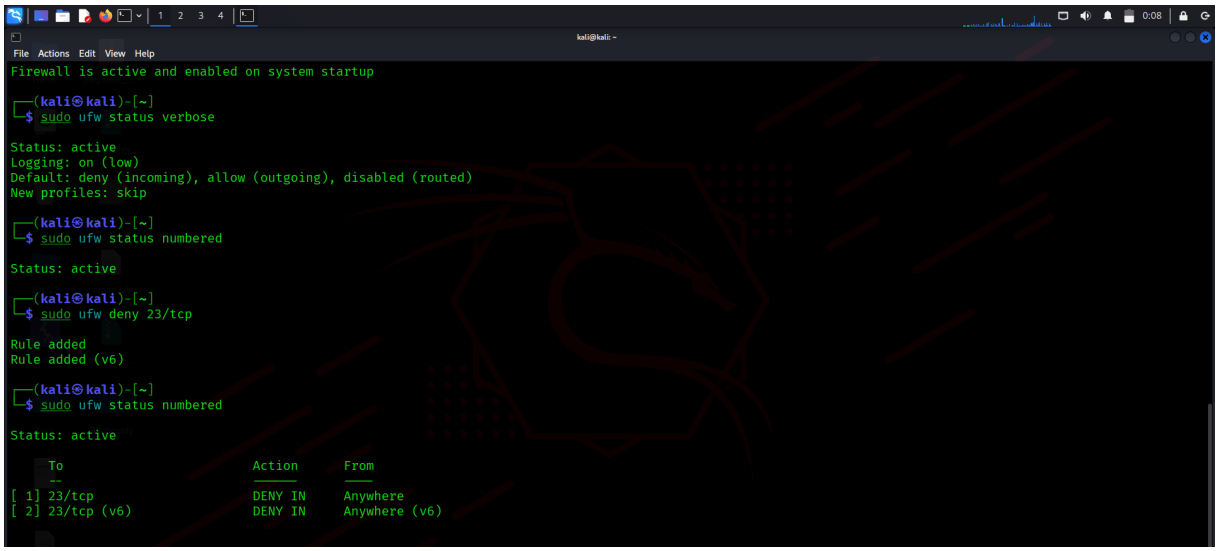


Screenshot 2: List of existing firewall rules.

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

sudo ufw deny 23/tcp

sudo ufw status numbered



Screenshot 3: Rules showing DENY 23/tcp.

4. Test the Rule:

telnet localhost 23

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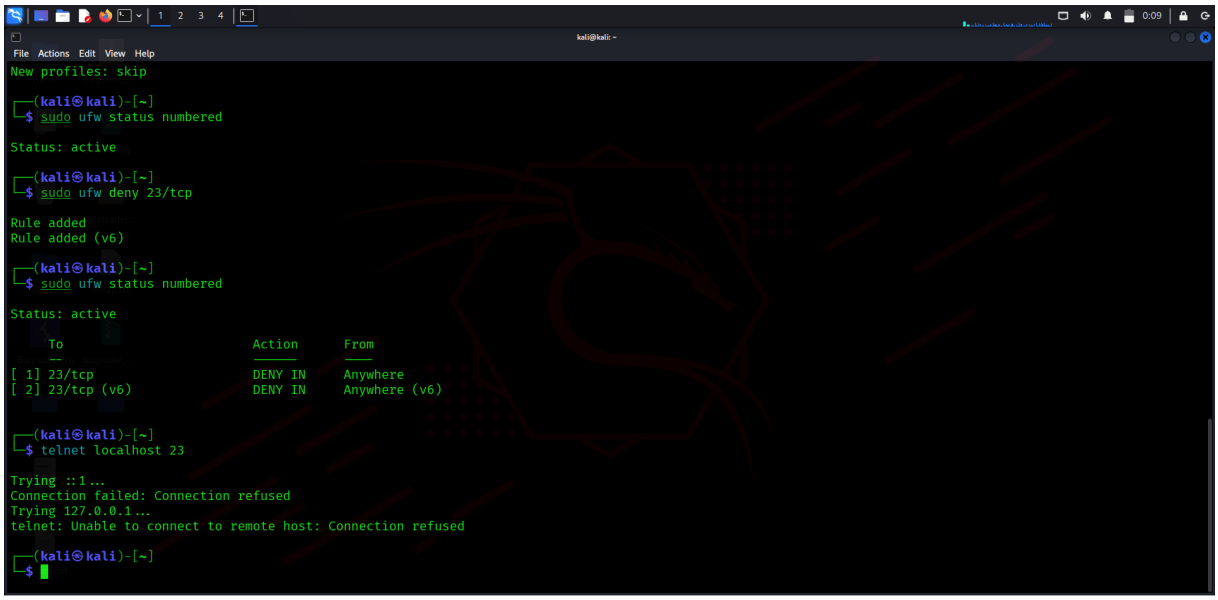
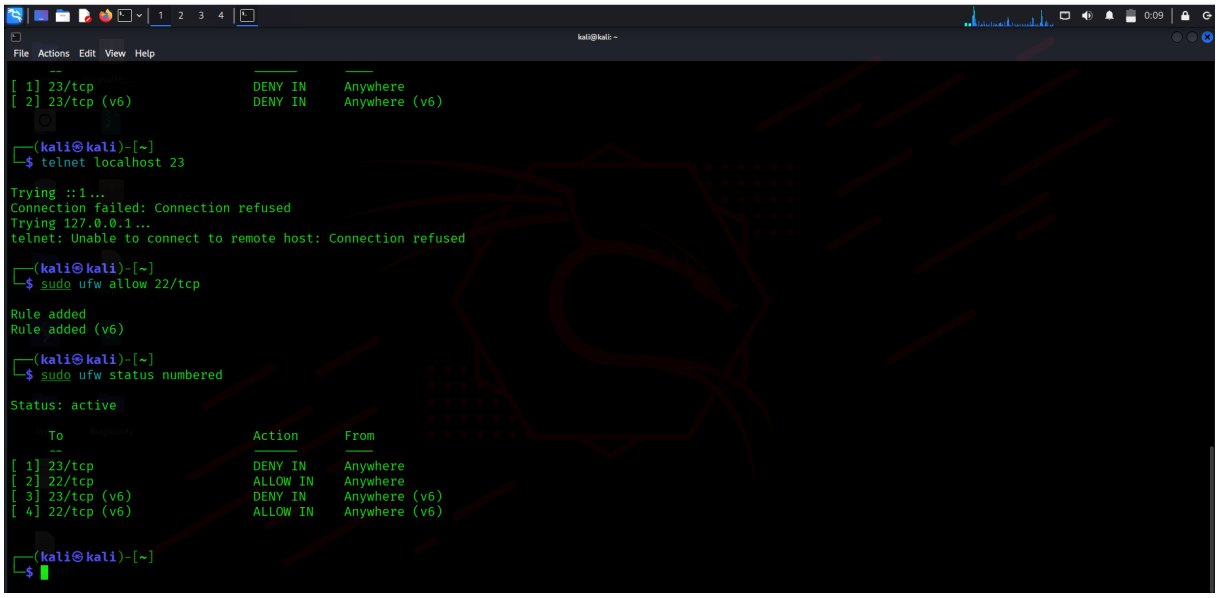


Screenshot 4: Telnet connection attempt failing.

5. Allow SSH (Port 22):

sudo ufw allow 22/tcp

sudo ufw status numbered



Screenshot 5: Rules showing ALLOW 22/tcp.

6. Remove the Block Rule:

sudo ufw delete <rule_number>

sudo ufw status numbered

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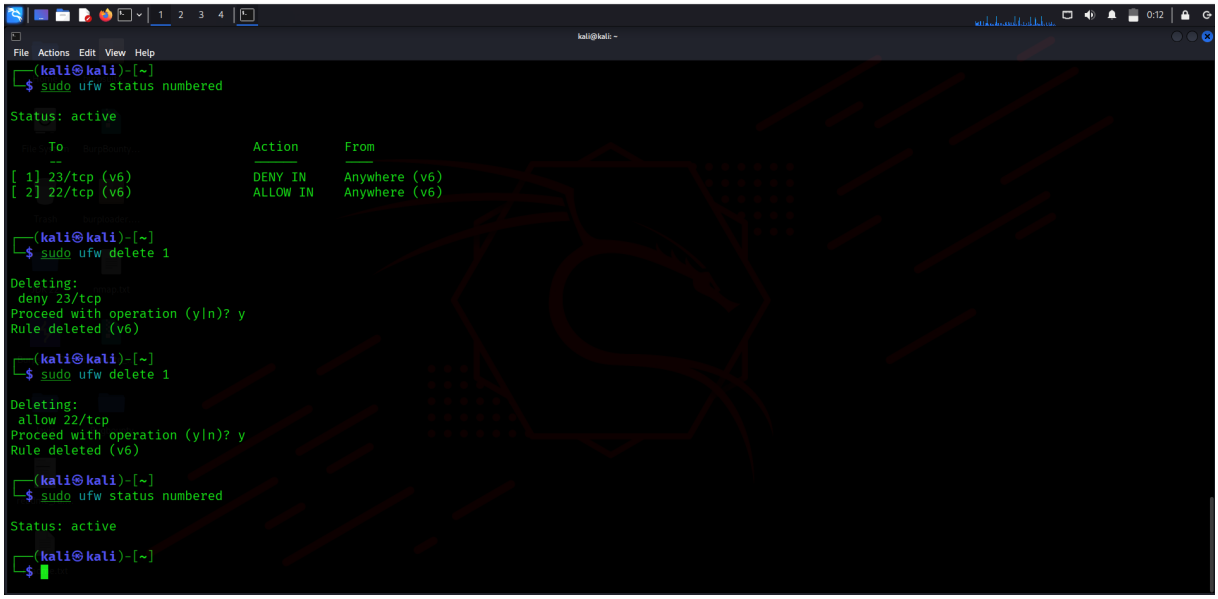

Screenshot 6: Rules list after removing Telnet block.

Summary

UFW is a user-friendly firewall management tool for Linux. It works by controlling incoming and outgoing traffic based on predefined rules. In this task, we:

- Enabled UFW and viewed current rules.
- Added a rule to block port 23 (Telnet).
- Tested the rule to confirm traffic was blocked.
- Allowed SSH access on port 22.
- Removed the Telnet block rule to restore the original state.