**Task 4: Setup and Use a Firewall on Kali Linux with UFW**

**✅ Step-by-Step Process**

1. **Install and Enable UFW**

* $sudo apt update
* **$sudo apt install ufw -y** # Install UFW if not already installed

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* **$sudo ufw enable** # Enable firewall

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* **$sudo ufw status verbose** # Show current firewall status and rules

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1. **Check Default Policies**

Use if Default Policies not set

* $sudo ufw default deny incoming
* $sudo ufw default allow outgoing

1. **List current firewall rules**

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  AI-generated content may be incorrect.**$sudo ufw status numbered
* Output shows all rules in effect (numbered for easy deletion later).

1. **Block Inbound Traffic on Port 23 (Telnet)**

* $sudo ufw deny 23/tcp
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  AI-generated content may be incorrect.$sudo ufw status numbered
* Now port **23/TCP** is blocked.

1. **Test the Rule**

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  AI-generated content may be incorrect.$nc -vz localhost 23
* Result: **connection refused or blocked**.

1. **Allow SSH (Port 22)**

To avoid locking yourself out:

* $sudo ufw allow 22/tcp
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  AI-generated content may be incorrect.$sudo ufw status numbered
* This ensures remote SSH is still accessible.

1. **Remove the Test Rule**

When finished, remove the Telnet block rule:

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  AI-generated content may be incorrect.$sudo ufw delete deny 23/tcp

Or delete by rule number:

* $sudo ufw status numbered