Installing and Using UFW Firewall in Kali Linux

Step-by-step Guide: Install UFW on Kali Linux
Update Package List: sudo apt update
2. Install UFW: sudo apt install ufw -y
3. Enable UFW: sudo ufw enable
4. Check UFW Status: sudo ufw status verbose
Basic UFW Commands with Examples
- Allow SSH (Port 22): sudo ufw allow ssh or sudo ufw allow 22/tcp
- Allow HTTP (Port 80): sudo ufw allow http
- Allow HTTPS (Port 443):

sudo ufw allow https

sudo ufw status verbose

- Deny All Incoming by Default (Safe for secure setup): sudo ufw default deny incoming sudo ufw default allow outgoing - Block a Specific Port (e.g., FTP port 21): sudo ufw deny 21 - Allow a Range of Ports (e.g., 1000-2000): sudo ufw allow 1000:2000/tcp Example Scenario for Cybersecurity Students: You're running Apache2 on Kali Linux (port 80). You want to allow: - SSH for remote management - HTTP for your web service - Block all other services Commands: sudo ufw default deny incoming sudo ufw default allow outgoing sudo ufw allow ssh sudo ufw allow http sudo ufw enable

Sample Output:

Status: active

To Action From

-- ----

22/tcp ALLOW Anywhere

80/tcp ALLOW Anywhere

22/tcp (v6) ALLOW Anywhere (v6)

80/tcp (v6) ALLOW Anywhere (v6)

To Disable UFW:

sudo ufw disable