

# Firewall Task Report (Kali Linux, UFW)

## 1. The current firewall status.

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw status
Status: inactive
```

## 2. UFW is successfully installed and is tuned ON.

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo apt update
$ sudo apt install ufw
$ sudo ufw enable

[sudo] password for kali:
Hit:1 http://http.kali.org/kali kali-rolling InRelease
244 packages can be upgraded. Run 'apt list --upgradable' to see them.
Installing:
  ufw

Suggested packages:
  rsyslog

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 244
  Download size: 169 kB
  Space needed: 880 kB / 2,074 MB available

Get:1 http://xsr.v.moratelindo.io/kali kali-rolling/main amd64 ufw all 0.36.2-9 [169 kB]
Fetched 169 kB in 2s (103 kB/s)
Preconfiguring packages ...
Selecting previously unselected package ufw.
(Reading database ... 412350 files and directories currently installed.)
Preparing to unpack .../archives/ufw_0.36.2-9_all.deb ...
Unpacking ufw (0.36.2-9) ...
Setting up ufw (0.36.2-9) ...
Creating config file /etc/ufw/before.rules with new version
Creating config file /etc/ufw/before6.rules with new version
Creating config file /etc/ufw/after.rules with new version
Creating config file /etc/ufw/after6.rules with new version
update-rc.d: We have no instructions for the ufw init script.
update-rc.d: It looks like a non-network service, we enable it.
Created symlink '/etc/systemd/system/multi-user.target.wants/ufw.service' -> '/usr/lib/systemd/system/ufw.service'.
Processing triggers for kali-menu (2025.2.7) ...
Processing triggers for man-db (2.13.1-1) ...
Firewall is active and enabled on system startup
```

The error you're seeing is because "netcat" is a virtual implementation you want to install: either "netcat-openbsd" or "netcat-traditional".

If you want to install the OpenBSD version, which is the default, you can run:

```
sudo apt install netcat-openbsd telnet
```

Alternatively, to install the traditional version, use:

```
sudo apt install netcat-traditional telnet
```

Either one will provide the "nc" command, but the traditional version also provides "ncat".

Let me know if you want me to explain the differences between the two.

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw status numbered

Status: active
```

## 3. Blocking Port 23 (Telnet)

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw deny 23
Rule added
Rule added (v6)
```

#### 4. Testing the block Telnet

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw delete deny 23
Rule deleted
Rule deleted (v6)
```

#### 5. Allowing SSH (Port 22)

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw allow 22
Rule added
Rule added (v6)
```

#### 6. Deleting the Telnet Block Rule

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw delete deny 23
Rule deleted
Rule deleted (v6)
```

#### 7. Final Firewall Status Check

```
(kali@kali)-[~/Downloads/tor-browser]
$ sudo ufw status verbose
Status: active
Logging: on (low)
Default: deny (incoming), allow (outgoing), disabled (routed)
New profiles: skip

To Action From
--
22 ALLOW IN Anywhere
22 (v6) ALLOW IN Anywhere (v6)
```