

(kali@kali) - [~/Downloads]

\$ nc -h

[v1.10-50]

connect to somewhere: nc [-options] hostname port[s] [ports] ...

listen for inbound: nc -l -p port [-options] [hostname] [port]

options:

-c	shell commands	as '-e'; use /bin/sh to exec [dangerous!!]
-e	filename	program to exec after connect [dangerous!!]
-b		allow broadcasts
-g	gateway	source-routing hop point[s], up to 8
-G	num	source-routing pointer: 4, 8, 12, ...
-h		this cruff
-i	secs	delay interval for lines sent, ports scanned
-k		set keepalive option on socket
-l		listen mode, for inbound connects
-n		numeric-only IP addresses, no DNS
-o	file	hex dump of traffic
-p	port	local port number
-r		randomize local and remote ports
-q	secs	quit after EOF on stdin and delay of secs
-s	addr	local source address
-T	tos	set Type Of Service
-t		answer TELNET negotiation
-u		UDP mode
-v		verbose [use twice to be more verbose]
-w	secs	timeout for connects and final net reads
-C		Send CRLF as line-ending
-z		zero-I/O mode [used for scanning]

port numbers can be individual or ranges: lo-hi [inclusive];
hyphens in port names must be backslash escaped (e.g. 'ftp\-data').

(kali@kali) - [~/Downloads]

\$

```
kali-linux-2025.3-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

kali@kali: ~/Downloads

(kali@kali)~/Downloads
$ sudo ufw status
Status: active

To Action From
--
22/tcp ALLOW Anywhere
23/tcp DENY Anywhere
22/tcp (v6) ALLOW Anywhere (v6)
23/tcp (v6) DENY Anywhere (v6)

(kali@kali)~/Downloads
$ sudo apt install netcat
Package netcat is a virtual package provided by:
 netcat-traditional 1.10-50
 netcat-openbsd 1.229-1
You should explicitly select one to install.

Error: Package 'netcat' has no installation candidate

(kali@kali)~/Downloads
$ sudo apt update && sudo apt install netcat
Hit:1 http://http.kali.org/kali kali-rolling InRelease
497 packages can be upgraded. Run 'apt list --upgradable' to see them.
Package netcat is a virtual package provided by:
 netcat-traditional 1.10-50
 netcat-openbsd 1.229-1
You should explicitly select one to install.

Error: Package 'netcat' has no installation candidate

(kali@kali)~/Downloads
```

zsh: no such file or directory: your_machine_IP

(kali@kali)~[/Downloads]

\$ sudo ufw allow 22/tcp

Skipping adding existing rule

Skipping adding existing rule (v6)

(kali@kali)~[/Downloads]

\$ telnet localhost 22

Trying ::1...

Connection failed: Connection refused

Trying 127.0.0.1...

telnet: Unable to connect to remote host: Connection refused

(kali@kali)~[/Downloads]

\$ sudo apt install telnet

Installing:

telnet

Summary:

Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 497

Download size: 43.4 kB

Space needed: 55.3 kB / 54.7 GB available

Get:1 http://http.kali.org/kali kali-rolling/main amd64 telnet all 0.17+2.6-4 [43.4 kB]

Fetch: 43.4 kB in 2s (21.3 kB/s)

Selecting previously unselected package telnet.

(Reading database ... 417822 files and directories currently installed.)

Preparing to unpack .../telnet_0.17+2.6-4_all.deb ...

Unpacking telnet (0.17+2.6-4) ...

Setting up telnet (0.17+2.6-4) ...

(kali@kali)~[/Downloads]

\$

```
kali-linux-2025.3-virtualbox-amd64 [Running] - Oracle VirtualBox
File Machine View Input Devices Help

kali@kali: ~/Downloads

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 497
  Download size: 43.4 kB
  Space needed: 55.3 kB / 54.7 GB available

Get:1 http://http.kali.org/kali kali-rolling/main amd64 telnet all 0.17+2.6-4 [43.4 kB]
Fetched 43.4 kB in 2s (21.3 kB/s)
Selecting previously unselected package telnet.
(Reading database ... 417822 files and directories currently installed.)
Preparing to unpack .../telnet_0.17+2.6-4_all.deb ...
Unpacking telnet (0.17+2.6-4) ...
Setting up telnet (0.17+2.6-4) ...

(kali@kali)~[~/Downloads]
$ telnet localhost 23
Trying ::1...
Connection failed: Connection refused
Trying 127.0.0.1...
telnet: Unable to connect to remote host: Connection refused

(kali@kali)~[~/Downloads]
$ sudo ufw allow 22/tcp
Skipping adding existing rule
Skipping adding existing rule (v6)

(kali@kali)~[~/Downloads]
$ sudo apt install openssh-server
openssh-server is already the newest version (1:10.0p1-8).
Summary:
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 497

(kali@kali)~[~/Downloads]
$
```

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```
(kali@kali)~/Downloads
```

```
$ sudo ufw allow 22/tcp
```

```
Skipping adding existing rule
```

```
Skipping adding existing rule (v6)
```

```
(kali@kali)~/Downloads
```

```
$ sudo apt install openssh-server
```

```
openssh-server is already the newest version (1:10.0p1-8).
```

```
Summary:
```

```
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 497
```

```
(kali@kali)~/Downloads
```

```
$ sudo ufw delete deny 23/tcp
```

```
Rule deleted
```

```
Rule deleted (v6)
```

```
(kali@kali)~/Downloads
```

```
$ sudo ufw status
```

```
Status: active
```

To	Action	From
22/tcp	ALLOW	Anywhere
22/tcp (v6)	ALLOW	Anywhere (v6)

```
(kali@kali)~/Downloads
```

```
$ sudo apt install gufw
```

```
gufw is already the newest version (24.04.0-3).
```

```
Summary:
```

```
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 497
```

```
(kali@kali)~/Downloads
```

```
$
```

```
kali-linux-2025.3-virtualbox-amd64 [Running] - Oracle VirtualBox
File Machine View Input Devices Help

kali@kali:~/Downloads

(kali@kali)~/Downloads
$ sudo apt update && sudo apt install ufw
[sudo] password for kali:
Hit:1 http://http.kali.org/kali kali-rolling InRelease
497 packages can be upgraded. Run 'apt list --upgradable' to see them.
ufw is already the newest version (0.36.2-9).
Summary:
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 497

(kali@kali)~/Downloads
$ sudo ufw enable
Firewall is active and enabled on system startup

(kali@kali)~/Downloads
$ sudo ufw verbose
Status: active

To Action From
--
22/tcp ALLOW Anywhere
22/tcp (v6) ALLOW Anywhere (v6)

(kali@kali)~/Downloads
$ sudo ufw deny 23/tcp
Rule added
Rule added (v6)

(kali@kali)~/Downloads
$
```

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