

# Kali Linux Basic Commands

Lect-1-  
Practice

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# 1. Sudo apt install

## To install a package

sudo=(superuser do), apt= (Advanced Package Tool)

sudo apt install package\_name

```
manav@kali:~/geeksforgeeks$ sudo apt install netcat
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  gconf-service gconf-service-backend gconf2 gconf2-common libgconf-2-4 libpython2-stdlib
  libpython2.7-minimal libpython2.7-stdlib python-is-python2 python2 python2-minimal python2.7
  python2.7-minimal
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  netcat
0 upgraded, 1 newly installed, 0 to remove and 8 not upgraded.
Need to get 2,172 B of archives.
After this operation, 15.4 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 netcat all 1.206-1ubuntu1 [2,172 B]
Fetched 2,172 B in 0s (5,082 B/s)
Selecting previously unselected package netcat.
(Reading database ... 244266 files and directories currently installed.)
Preparing to unpack .../netcat_1.206-1ubuntu1_all.deb ...
Unpacking netcat (1.206-1ubuntu1) ...
Setting up netcat (1.206-1ubuntu1) ...
manav@kali:~/geeksforgeeks$
```

## 2. sudo apt remove

To remove a package

`sudo apt remove package_name`

```
manav@kali:~/geeksforgeeks$ sudo apt remove netcat
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  gconf-service gconf-service-backend gconf2 gconf2-common libgconf-2-4 libpython2-stdlib
  libpython2.7-minimal libpython2.7-stdlib python-is-python2 python2 python2-minimal python2.7
  python2.7-minimal
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  netcat
0 upgraded, 0 newly installed, 1 to remove and 8 not upgraded.
After this operation, 15.4 kB disk space will be freed.
Do you want to continue? [Y/n] Y
(Reading database ... 244269 files and directories currently installed.)
Removing netcat (1.206-1ubuntu1) ...
manav@kali:~/geeksforgeeks$
```

### 3. `sudo apt upgrade`

To upgrade packages in the system

`sudo apt upgrade`

```
manav@kali:~/geeksforgeeks$ sudo apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages were automatically installed and are no longer required:
  gconf-service gconf-service-backend gconf2 gconf2-common libgconf-2-4 libpython2-stdlib
  libpython2.7-minimal libpython2.7-stdlib python-is-python2 python2 python2-minimal python2.7
  python2.7-minimal
Use 'sudo apt autoremove' to remove them.
The following packages will be upgraded:
  apport apport-gtk bind9-dnsutils bind9-host bind9-libs gnome-shell-extension-ubuntu-dock
  python3-apport python3-problem-report
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 1,596 kB of archives.
After this operation, 4,096 B disk space will be freed.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 bind9-dnsutils amd64 1:9.16.1-0ubuntu2.2 [134 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 bind9-libs amd64 1:9.16.1-0ubuntu2.2 [1,115 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 bind9-host amd64 1:9.16.1-0ubuntu2.2 [43.0 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-problem-report all 2.20.11-0ubuntu27.3 [9,840 B]
Get:5 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-apport all 2.20.11-0ubuntu27.3 [83.8 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 apport all 2.20.11-0ubuntu27.3 [128 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 apport-gtk all 2.20.11-0ubuntu27.3 [9,716 B]
Get:8 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 gnome-shell-extension-ubuntu-dock all 68ubuntu1-20.04.1 [72.6 kB]
Fetched 1,596 kB in 1s (1,322 kB/s)
(Reading database ... 244269 files and directories currently installed.)
Preparing to unpack .../0-bind9-dnsutils_1%3a9.16.1-0ubuntu2.2_amd64.deb ...
Unpacking bind9-dnsutils (1:9.16.1-0ubuntu2.2) over (1:9.16.1-0ubuntu2.1) ...
Preparing to unpack .../1-bind9-libs_1%3a9.16.1-0ubuntu2.2_amd64.deb ...
Unpacking bind9-libs:amd64 (1:9.16.1-0ubuntu2.2) over (1:9.16.1-0ubuntu2.1) ...
Preparing to unpack .../2-bind9-host_1%3a9.16.1-0ubuntu2.2_amd64.deb ...
Unpacking bind9-host (1:9.16.1-0ubuntu2.2) over (1:9.16.1-0ubuntu2.1) ...
Progress: [ 15%] [#####.....]
Preparing to unpack .../3-python3-problem-report_2.20.11-0ubuntu27.3_all.deb ...
Unpacking python3-problem-report (2.20.11-0ubuntu27.3) over (2.20.11-0ubuntu27.2) ...
```



## 4. sudo apt update

To fetch the packages updates

sudo apt update

```
manav@kali:~/geeksforgeeks$ sudo apt update
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease [107 kB]
Get:3 http://linux.teamviewer.com/deb stable InRelease [9,388 B]
Get:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease [98.3 kB]
Hit:5 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:6 http://ppa.launchpad.net/gezakovacs/ppa/ubuntu focal InRelease
Hit:7 http://packages.microsoft.com/repos/vscode stable InRelease
Get:8 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [199 kB]
Get:9 http://security.ubuntu.com/ubuntu focal-security InRelease [107 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu focal-updates/main i386 Packages [103 kB]
Hit:11 http://ppa.launchpad.net/lutris-team/lutris/ubuntu focal InRelease
Hit:12 https://repo.windscribe.com/ubuntu bionic InRelease
Get:13 http://in.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [78.8 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metadata [105 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu focal-updates/main DEP-11 48x48 Icons [26.5 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu focal-updates/main DEP-11 64x64 Icons [37.5 kB]
Get:17 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [5,856 B]
Get:18 http://in.archive.ubuntu.com/ubuntu focal-updates/universe i386 Packages [60.9 kB]
Get:19 http://in.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [111 kB]
Get:20 http://in.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [52.3 kB]
Get:21 http://in.archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 Metadata [151 kB]
Hit:22 http://ppa.launchpad.net/obsproject/obs-studio/ubuntu focal InRelease
Get:23 http://in.archive.ubuntu.com/ubuntu focal-updates/universe DEP-11 48x48 Icons [76.5 kB]
Get:24 http://in.archive.ubuntu.com/ubuntu focal-updates/universe DEP-11 64x64 Icons [121 kB]
Get:25 http://in.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [4,112 B]
Get:26 http://in.archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Metadata [532 B]
Hit:28 http://ppa.launchpad.net/otto-kesselgulasch/gimp/ubuntu focal InRelease
Hit:29 http://ppa.launchpad.net/persepolis/ppa/ubuntu focal InRelease
Hit:27 https://packagecloud.io/slacktechnologies/slack/debian jessie InRelease
Get:30 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [21.2 kB]
Get:31 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Metadata [31.5 kB]
Fetched 1,507 kB in 2s (687 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
9 packages can be upgraded. Run 'apt list --upgradable' to see them.
manav@kali:~/geeksforgeeks$
```

## 5. **sudo su**

To change the current user to superuser or root

sudo su

```
manav@kali:~/geeksforgeeks$ sudo su  
[sudo] password for manav:  
root@kali:/home/manav/geeksforgeeks#
```

## 6. Passwd

passwd command is used to change the password of a normal user / sudo user / root user.

```
root@kali:~#passwd
New password:
Retype new password:
passwd: password updated successfully
root@kali:~#
```

## 7. Whoami

The '**whoami**' command is used to print the effective **user ID** whereas the **who** command prints information regarding users who are presently logged in.

The "**w**" command can also be used to view who is logged on and what they are doing.

```
(kali@kali)-[~]  
$ whoami  
kali  
  
(kali@kali)-[~]  
$ who  
kali      tty7      2021-10-08 08:39 (:0)
```



## 8. history Command

The '**history**' command is one of Kali Linux's most commonly used commands. The history command in the bash shell saves a history of commands entered that can be used to repeat commands.

Syntax:

```
# history
```

```
(kali@kali)-[~]  
$ history  
1  
2  airmon-ng  
3  air  
4  airmon-ng start [root]  
5  sudo airmon-ng  
6  sudo ip link set IFACE down  
7  ifconfig  
8  sudo apt-get install kali-linux-wireless  
9  iwconfig  
10 air  
11 ifconfig  
12 sudo iw dev  
13 lsb_release -a  
14 clear  
15 cat /etc/os-release  
16 clear  
17 hostnamectl
```

## 9. ifconfig

To display network interface details.

```
manav@kali:~/geeksforgeeks$ ifconfig
enp3s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
        txqueuelen 1000  (Ethernet)
    RX packets 0  bytes 0 (0.0 B)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 0  bytes 0 (0.0 B)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

10. **ip link show wlan0** To Display Mac address
11. **ping <IP\_address>**: Tests connectivity to a specified IP address or domain.
12. **netstat**: Shows network connections, routing tables, and interface statistics.
13. **tcpdump** : Captures network traffic.

Example: **tcpdump -i eth0** (captures traffic on the eth0 interface)

14. **traceroute <domain\_name>**: Traces the route packets take to reach a target.
15. **route**