

```
bilal@ubuntu:~$ uname -msr
Linux 5.13.0-30-generic x86_64
bilal@ubuntu:~$ sudo apt update
[sudo] password for bilal:
Hit:1 http://us.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Fetched 336 kB in 2s (184 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
34 packages can be upgraded. Run 'apt list --upgradable' to see them.
bilal@ubuntu:~$ sudo -i
root@ubuntu:~# mkdir -i 5.17
mkdir: invalid option -- 'i'
Try 'mkdir --help' for more information.
root@ubuntu:~# mkdir -p ~/5.17
root@ubuntu:~# cd ~/5.17
root@ubuntu:~/5.17# wget https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
--2022-03-03 23:16:35-- https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
Resolving kernel.ubuntu.com (kernel.ubuntu.com)... 91.189.94.216
Connecting to kernel.ubuntu.com (kernel.ubuntu.com)|91.189.94.216|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2911986 (2.8M) [application/x-debian-package]
Saving to: 'linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.2'

linux-headers-5.17.0-05170 100%[=====] 2.78M 1.15MB/s in 2.4s

2022-03-03 23:16:38 (1.15 MB/s) - 'linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.2' saved [2911986/2911986]
```

```
root@ubuntu:~/5.17# wget https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb
--2022-03-03 23:16:49-- https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb
Resolving kernel.ubuntu.com (kernel.ubuntu.com)... 91.189.94.216
Connecting to kernel.ubuntu.com (kernel.ubuntu.com)|91.189.94.216|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 12401316 (12M) [application/x-debian-package]
Saving to: 'linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb.1'

linux-headers-5.17.0-05170 100%[=====] 11.83M 1.39MB/s in 9.1s

2022-03-03 23:16:59 (1.29 MB/s) - 'linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb.1' saved [12401316/12401316]

root@ubuntu:~/5.17#
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root@ubuntu:~/5.17# wget https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
--2022-03-03 23:18:37-- https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
Resolving kernel.ubuntu.com (kernel.ubuntu.com)... 91.189.94.216
Connecting to kernel.ubuntu.com (kernel.ubuntu.com)|91.189.94.216|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11253952 (11M) [application/x-debian-package]
Saving to: 'linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1'

linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1 100%[=====] 10.73M 1.39MB/s in 8.3s

2022-03-03 23:18:46 (1.29 MB/s) - 'linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1' saved [11253952/11253952]

root@ubuntu:~/5.17# wget https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
--2022-03-03 23:19:00-- https://kernel.ubuntu.com/~kernel-ppa/mainline/v5.17-rc6/amd64/linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
Resolving kernel.ubuntu.com (kernel.ubuntu.com)... 91.189.94.216
Connecting to kernel.ubuntu.com (kernel.ubuntu.com)|91.189.94.216|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 87941422 (84M) [application/x-debian-package]
Saving to: 'linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1'

linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1 100%[=====] 83.87M 1.13MB/s in 66s

2022-03-03 23:20:07 (1.27 MB/s) - 'linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1' saved [87941422/87941422]

root@ubuntu:~/5.17#

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root@ubuntu:~/5.17# ls
linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb
linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb.1
linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1
linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.2
linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1
linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb
linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb.1
root@ubuntu:~/5.17#

```

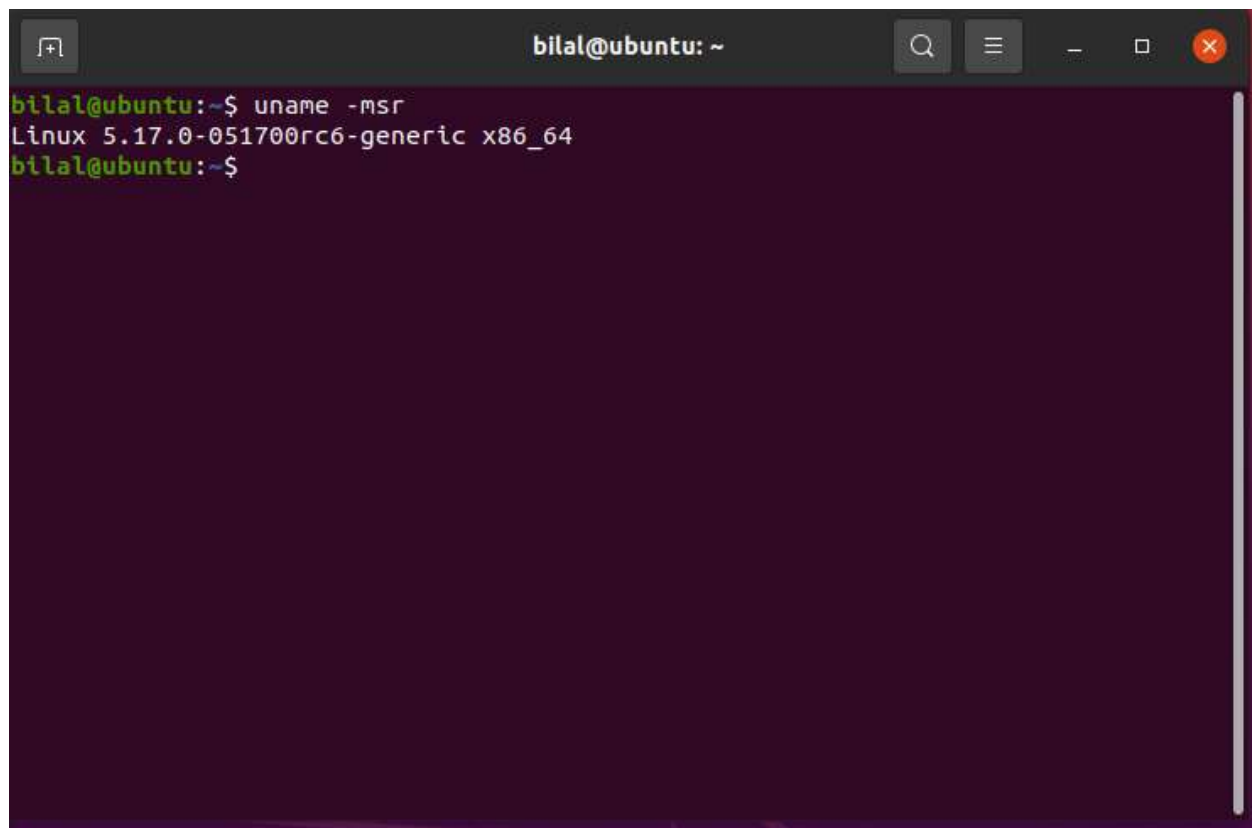


```

root@ubuntu:~/5.17# dpkg -i *.deb
Selecting previously unselected package linux-headers-5.17.0-051700rc6.
(Reading database ... 198030 files and directories currently installed.)
Preparing to unpack linux-headers-5.17.0-051700rc6_5.17.0-051700rc6.202202272330_all.deb ...
Unpacking linux-headers-5.17.0-051700rc6 (5.17.0-051700rc6.202202272330) ...
Selecting previously unselected package linux-headers-5.17.0-051700rc6-generic.
Preparing to unpack linux-headers-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb ...
Unpacking linux-headers-5.17.0-051700rc6-generic (5.17.0-051700rc6.202202272330) ...
Selecting previously unselected package linux-image-unsigned-5.17.0-051700rc6-generic.
Preparing to unpack linux-image-unsigned-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb ...
Unpacking linux-image-unsigned-5.17.0-051700rc6-generic (5.17.0-051700rc6.202202272330) ...
Selecting previously unselected package linux-modules-5.17.0-051700rc6-generic.
Preparing to unpack linux-modules-5.17.0-051700rc6-generic_5.17.0-051700rc6.202202272330_amd64.deb ...
Unpacking linux-modules-5.17.0-051700rc6-generic (5.17.0-051700rc6.202202272330) ...
Setting up linux-headers-5.17.0-051700rc6 (5.17.0-051700rc6.202202272330) ...
dpkg: dependency problems prevent configuration of linux-headers-5.17.0-051700rc6-generic:
 linux-headers-5.17.0-051700rc6-generic depends on libc6 (>= 2.34); however:
  Version of libc6:amd64 on system is 2.31-0ubuntu9.7.
 linux-headers-5.17.0-051700rc6-generic depends on libssl3 (>= 3.0.0~~alpha1); however:
  Package libssl3 is not installed.

dpkg: error processing package linux-headers-5.17.0-051700rc6-generic (--install):
 dependency problems - leaving unconfigured
Setting up linux-image-unsigned-5.17.0-051700rc6-generic (5.17.0-051700rc6.202202272330) ...
I: /boot/vmlinuz.old is now a symlink to vmlinuz-5.13.0-30-generic
I: /boot/initrd.img.old is now a symlink to initrd.img-5.13.0-30-generic
I: /boot/vmlinuz is now a symlink to vmlinuz-5.17.0-051700rc6-generic
I: /boot/initrd.img is now a symlink to initrd.img-5.17.0-051700rc6-generic
Setting up linux-modules-5.17.0-051700rc6-generic (5.17.0-051700rc6.202202272330) ...
Processing triggers for linux-image-unsigned-5.17.0-051700rc6-generic (5.17.0-051700rc6.202202272330) ...
/etc/kernel/postinst.d/initramfs-tools:
update-initramfs: Generating /boot/initrd.img-5.17.0-051700rc6-generic
/etc/kernel/postinst.d/zz-update-grub:
Sourcing file '/etc/default/grub'
Sourcing file '/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-5.17.0-051700rc6-generic
Found initrd image: /boot/initrd.img-5.17.0-051700rc6-generic
Found linux image: /boot/vmlinuz-5.13.0-30-generic
Found initrd image: /boot/initrd.img-5.13.0-30-generic
Found linux image: /boot/vmlinuz-5.13.0-28-generic
Found initrd image: /boot/initrd.img-5.13.0-28-generic
Found linux image: /boot/vmlinuz-5.11.0-27-generic
Found initrd image: /boot/initrd.img-5.11.0-27-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
done

```



A terminal window titled "bilal@ubuntu: ~" with standard window controls (search, menu, and close buttons). The terminal shows the command "uname -msr" being executed, resulting in the output "Linux 5.17.0-051700rc6-generic x86_64". The prompt "bilal@ubuntu:~\$" is visible at the end of the line.

```
bilal@ubuntu:~$ uname -msr
Linux 5.17.0-051700rc6-generic x86_64
bilal@ubuntu:~$
```