NAME: Shankar Pawar

BATCH: N10

RollNo.: 33267

**ASSIGNMENT 2B**

shankar@shankar-VirtualBox:~$ uname -a

Linux shankar-VirtualBox 5.19.0-43-generic #44~22.04.1-Ubuntu SMP PREEMPT\_DYNAMIC Mon May 22 13:39:36 UTC 2 x86\_64 x86\_64 x86\_64 GNU/Linux

shankar@shankar-VirtualBox:~$ apt-get

apt 2.4.8 (amd64)

Usage: apt-get [options] command

apt-get [options] install|remove pkg1 [pkg2 ...]

apt-get [options] source pkg1 [pkg2 ...]

apt-get is a command line interface for retrieval of packages

and information about them from authenticated sources and

for installation, upgrade and removal of packages together

with their dependencies.

Most used commands:

update - Retrieve new lists of packages

upgrade - Perform an upgrade

install - Install new packages (pkg is libc6 not libc6.deb)

reinstall - Reinstall packages (pkg is libc6 not libc6.deb)

remove - Remove packages

purge - Remove packages and config files

autoremove - Remove automatically all unused packages

dist-upgrade - Distribution upgrade, see apt-get(8)

dselect-upgrade - Follow dselect selections

build-dep - Configure build-dependencies for source packages

satisfy - Satisfy dependency strings

clean - Erase downloaded archive files

autoclean - Erase old downloaded archive files

check - Verify that there are no broken dependencies

source - Download source archives

download - Download the binary package into the current directory

changelog - Download and display the changelog for the given package

See apt-get(8) for more information about the available commands.

Configuration options and syntax is detailed in apt.conf(5).

Information about how to configure sources can be found in sources.list(5).

Package and version choices can be expressed via apt\_preferences(5).

Security details are available in apt-secure(8).

This APT has Super Cow Powers.

shankar@shankar-VirtualBox:~$ sudo apt-get update

[sudo] password for shankar:

Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease

Get:2 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]

Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]

Get:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]

Get:5 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [393 kB]

Get:6 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,325 kB]

Get:7 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1,109 kB]

Get:8 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [207 kB]

Get:9 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [43.0 kB]

Get:10 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1,313 kB]

Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [560 kB]

Get:12 http://security.ubuntu.com/ubuntu jammy-security/restricted i386 Packages [33.2 kB]

Get:13 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [214 kB]

Get:14 http://security.ubuntu.com/ubuntu jammy-security/universe i386 Packages [588 kB]

Get:15 http://in.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [268 kB]

Get:16 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [101 kB]

Get:17 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [837 kB]

Get:18 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [160 kB]

Get:19 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [55.1 kB]

Get:20 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]

Get:21 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1,342 kB]

Get:22 http://security.ubuntu.com/ubuntu jammy-security/multiverse i386 Packages [1,356 B]

Get:23 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7,476 B]

Get:24 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted i386 Packages [34.8 kB]

Get:25 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [220 kB]

Get:26 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [686 kB]

Get:27 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,042 kB]

Get:28 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [235 kB]

Get:29 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [305 kB]

Get:30 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse i386 Packages [4,164 B]

Get:31 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [42.1 kB]

Get:32 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [10.1 kB]

Get:33 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]

Get:34 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]

Get:35 http://in.archive.ubuntu.com/ubuntu jammy-backports/main i386 Packages [33.9 kB]

Get:36 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [4,932 B]

Get:37 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe i386 Packages [13.4 kB]

Get:38 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.2 kB]

Get:39 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]

Get:40 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [18.9 kB]

Fetched 11.7 MB in 8s (1,548 kB/s)

Reading package lists... Done

shankar@shankar-VirtualBox:~$ sudo apt-get install apt-transport-https ca-certificates

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

ca-certificates is already the newest version (20230311ubuntu0.22.04.1).

ca-certificates set to manually installed.

The following NEW packages will be installed:

apt-transport-https

0 upgraded, 1 newly installed, 0 to remove and 419 not upgraded.

Need to get 1,510 B of archives.

After this operation, 170 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 apt-transport-https all 2.4.11 [1,510 B]

Fetched 1,510 B in 1s (2,398 B/s)

Selecting previously unselected package apt-transport-https.

(Reading database ... 238024 files and directories currently installed.)

Preparing to unpack .../apt-transport-https\_2.4.11\_all.deb ...

Unpacking apt-transport-https (2.4.11) ...

Setting up apt-transport-https (2.4.11) ...

shankar@shankar-VirtualBox:~$ sudo apt-key adv \

> --keyserver hkp://ha.pool.sks-keyservers.net:80 \

> --recv-keys 58118E89F3A912897C070ADBF76221572C52609D

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

Executing: /tmp/apt-key-gpghome.exjZpxGAGY/gpg.1.sh --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-keys 58118E89F3A912897C070ADBF76221572C52609D

gpg: keyserver receive failed: Server indicated a failure

shankar@shankar-VirtualBox:~$ gpg --keyserver-options http-proxy="http://xxxx:xxxx@proxy:8080" --keyserver

hkp://p80.pool.sks-keyservers.net:80 --recv-keys B42F6819007F00F88E364FD4036A9C25BF357DD4

gpg: keyserver receive failed: No name

missing argument for option "--keyserver"

bash: hkp://p80.pool.sks-keyservers.net:80: No such file or directory

Command 'gpg:' not found, did you mean:

command 'gpgv' from deb gpgv (2.2.27-3ubuntu2.1)

command 'gpg' from deb gpg (2.2.27-3ubuntu2.1)

command 'gpg2' from deb gnupg2 (2.2.27-3ubuntu2.1)

command 'gpg1' from deb gnupg1 (1.4.23-1.1build1)

Try: sudo apt install <deb name>

shankar@shankar-VirtualBox:~$ for server in ha.pool.sks-keyservers.net \

> hkp://p80.pool.sks-keyservers.net:80 \

bash: syntax error near unexpected token `hkp://p80.pool.sks-keyservers.net:80'

shankar@shankar-VirtualBox:~$ for server in ha.pool.sks-keyservers.net \

> hkp://p80.pool.sks-keyservers.net:80 \

> keyserver.ubuntu.com \

> hkp://keyserver.ubuntu.com:80 \

> pgp.mit.edu; do

> gpg --keyserver "$server" --recv-keys B42F6819007F00F88E364FD4036A9C25BF357DD4 && break || echo "Trying new server..."

> done

gpg: keyserver receive failed: Server indicated a failure

Trying new server...

gpg: keyserver receive failed: Server indicated a failure

Trying new server...

gpg: key 036A9C25BF357DD4: 11 duplicate signatures removed

gpg: key 036A9C25BF357DD4: public key "Tianon Gravi <tianon@tianon.xyz>" imported

gpg: Total number processed: 1

gpg: imported: 1

shankar@shankar-VirtualBox:~$ echo "deb https://apt.dockerproject.org/repo ubuntu-trusty main" | sudo tee /etc/apt/sources.list.d/docker.list deb https://apt.dockerproject.org/repo ubuntu-trusty main

tee: 'https://apt.dockerproject.org/repo': No such file or directory

deb https://apt.dockerproject.org/repo ubuntu-trusty main

shankar@shankar-VirtualBox:~$ echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu focal stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

shankar@shankar-VirtualBox:~$ sudo apt-get update

Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease

Get:2 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]

Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease

Err:2 https://download.docker.com/linux/ubuntu focal InRelease

The following signatures couldn't be verified because the public key is not available: NO\_PUBKEY 7EA0A9C3F273FCD8

Hit:5 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease

Reading package lists... Done

W: GPG error: https://download.docker.com/linux/ubuntu focal InRelease: The following signatures couldn't be verified because the public key is not available: NO\_PUBKEY 7EA0A9C3F273FCD8

E: The repository 'https://download.docker.com/linux/ubuntu focal InRelease' is not signed.

N: Updating from such a repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository creation and user configuration details.

shankar@shankar-VirtualBox:~$ sudo apt-get install docker.io

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

bridge-utils containerd git git-man liberror-perl pigz runc ubuntu-fan

Suggested packages:

ifupdown aufs-tools btrfs-progs cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse

zfs-fuse | zfsutils git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk

gitweb git-cvs git-mediawiki git-svn

The following NEW packages will be installed:

bridge-utils containerd docker.io git git-man liberror-perl pigz runc ubuntu-fan

0 upgraded, 9 newly installed, 0 to remove and 419 not upgraded.

Need to get 73.5 MB of archives.

After this operation, 287 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.7-0ubuntu1~22.04.2 [4,267 kB]

Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.2-0ubuntu1~22.04.1 [36.0 MB]

Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 24.0.5-0ubuntu1~22.04.1 [28.9 MB]

Get:6 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 liberror-perl all 0.17029-1 [26.5 kB]

Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git-man all 1:2.34.1-1ubuntu1.10 [954 kB]

Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-1ubuntu1.10 [3,166 kB]

Get:9 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]

Fetched 73.5 MB in 36s (2,054 kB/s)

Preconfiguring packages ...

Selecting previously unselected package pigz.

(Reading database ... 238028 files and directories currently installed.)

Preparing to unpack .../0-pigz\_2.6-1\_amd64.deb ...

Unpacking pigz (2.6-1) ...

Selecting previously unselected package bridge-utils.

Preparing to unpack .../1-bridge-utils\_1.7-1ubuntu3\_amd64.deb ...

Unpacking bridge-utils (1.7-1ubuntu3) ...

Selecting previously unselected package runc.

Preparing to unpack .../2-runc\_1.1.7-0ubuntu1~22.04.2\_amd64.deb ...

Unpacking runc (1.1.7-0ubuntu1~22.04.2) ...

Selecting previously unselected package containerd.

Preparing to unpack .../3-containerd\_1.7.2-0ubuntu1~22.04.1\_amd64.deb ...

Unpacking containerd (1.7.2-0ubuntu1~22.04.1) ...

Selecting previously unselected package docker.io.

Preparing to unpack .../4-docker.io\_24.0.5-0ubuntu1~22.04.1\_amd64.deb ...

Unpacking docker.io (24.0.5-0ubuntu1~22.04.1) ...

Selecting previously unselected package liberror-perl.

Preparing to unpack .../5-liberror-perl\_0.17029-1\_all.deb ...

Unpacking liberror-perl (0.17029-1) ...

Selecting previously unselected package git-man.

Preparing to unpack .../6-git-man\_1%3a2.34.1-1ubuntu1.10\_all.deb ...

Unpacking git-man (1:2.34.1-1ubuntu1.10) ...

Selecting previously unselected package git.

Preparing to unpack .../7-git\_1%3a2.34.1-1ubuntu1.10\_amd64.deb ...

Unpacking git (1:2.34.1-1ubuntu1.10) ...

Selecting previously unselected package ubuntu-fan.

Preparing to unpack .../8-ubuntu-fan\_0.12.16\_all.deb ...

Unpacking ubuntu-fan (0.12.16) ...

Setting up runc (1.1.7-0ubuntu1~22.04.2) ...

Setting up liberror-perl (0.17029-1) ...

Setting up bridge-utils (1.7-1ubuntu3) ...

Setting up pigz (2.6-1) ...

Setting up git-man (1:2.34.1-1ubuntu1.10) ...

Setting up containerd (1.7.2-0ubuntu1~22.04.1) ...

Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service

Setting up ubuntu-fan (0.12.16) ..

Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.

Setting up docker.io (24.0.5-0ubuntu1~22.04.1) ...

Adding group `docker' (GID 137) ...

Done.

Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.

Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.

Setting up git (1:2.34.1-1ubuntu1.10) ...

Processing triggers for man-db (2.10.2-1) ...

shankar@shankar-VirtualBox:~$ sudo service docker start

shankar@shankar-VirtualBox:~$ sudo docker run hello-world

Unable to find image 'hello-world:latest' locally

latest: Pulling from library/hello-world

c1ec31eb5944: Pull complete

Digest: sha256:4bd78111b6914a99dbc560e6a20eab57ff6655aea4a80c50b0c5491968cbc2e6

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.

(amd64)

3. The Docker daemon created a new container from that image which runs the

executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it

to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:

https://hub.docker.com/

For more examples and ideas, visit:

https://docs.docker.com/get-started/



