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NETWORKING&SYSTEMADMINISTRATIONLAB

ExperimentNo.:24

Aim

How to Install Docker on Ubuntu

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Batch:B

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Date:23/05/2022

Program

1.Remove any Docker files that are running in the system, using the following command:

\$ sudo apt-get remove docker docker-engine docker.io

```
mca@555:~$ sudo apt-get remove docker docker-engine docker.io
[sudo] password for mca:
Reading package lists... Done
Building dependency tree
Reading state information... Done
Package 'docker-engine' is not installed, so not removed
Package 'docker' is not installed, so not removed
Package 'docker.io' is not installed, so not removed
The following packages were automatically installed and are no longer required:
    debhelper dh-autoreconf dh-strip-nondeterminism libarchive-cpio-perl
    libfile-stripnondeterminism-perl libmail-sendmail-perl libpcreio-3
    libpcre3-dev libpcre32-3 libpcrecpp0v5 libssl-dev libssl-doc
    libsys-hostname-long-perl php-common php-pear php-xml php7.2-cli
    php7.2-common php7.2-json php7.2-opcache php7.2-readline php7.2-xml
    pkg-php-tools po-debconf shtool
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
```

2. Check if the system is up-to-date using the following command:

\$ sudo apt-get update

```
ncmesss:-S sudo apt-pet update
Htt:: http://ln.archve.ubuntu.com/ubuntu bionic InRelease
Get:2 http://dl.google.com/linux/chrome/deb stable InRelease
The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 78B065473CB3BD13
Get:3 http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic InRelease [1.5 pk]
Ign:4 https://ppa.longodb.org/apt/ubuntu trusty/mongodb-org/3.6 florelease
Get:5 http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic InRelease [2.495 8]
Erris http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic InRelease [2.495 8]
Erris http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic InRelease
483 Forbidden [Pr. 185.125.198.2 8]
Get:7 https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 Release.pgg
Get:7 https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 Release.pgg
The following signatures were invalid: EXPKEYSIG. S9712A2291FA405 Mongo0B 3.6 Release Signing Key <packaging@mongodb.com>
Get:9 http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic/main andsd Packages [2.888 8]
Get:16 http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic/main andsd Packages [2.888 8]
Get:16 http://ppa.launchpad.net/j-4321-i/ppa/ubuntu bionic/main Translation-en [2.452 8]
Get:8 http://ppa.launchpad.net/j-432818013
E: The repository http://dl.google.com/linux/chrome/deb stable InRelease: In no l
```

3.Install Docker using the following command:

\$ sudo apt install docker.io

```
eccess.-5 sude ant install docker.to
feeading package lists... bone
Building dependency tree
feeading package lists... bone
Building dependency tree
feeading state information... bone
The following packages were automatically installed and are no longer required:
the following packages were automatically installed and are no longer required:
the following packages were automatically installed and are no longer required:
the following packages were automatically installed and are no longer required:
the following packages were automatically installed and are no longer required:
the following additional packages will be installed:
bridge automatically groupf-shound ubuntu-fan
bridge-utils groupf-shound ubuntu-fan
Sants-tools brifs-tools debootstrap docker-doc rinse zfs-fuse | zfsutils
the following NEW packages will be installed:
bridge-utils groupf-shound docker-do ubuntu-fan
upgraded, anewly installed, to remove and 9 not upgraded.
Need to get 30.1 MB of archives.
An archives. Manufackage will be used.
On you want to continue? (Yen)

Get:1 http://in.archive.ubuntu.con/ubuntu biontc/natn-anded bridge-utils anded 17.12.1-obuntui [30.1 kB]
Get:3 http://in.archive.ubuntu.con/ubuntu biontc/natn-anded docker.io anded 17.12.1-obuntui [30.1 MB]
Get:3 http://in.archive.ubuntu.con/ubuntu biontc/natn-anded ubuntu-fan all 6.12.10 [34.7 kB]

Freconfiguring packages...
Get:1 http://in.archive.ubuntu.con/ubuntu biontc/natn-anded ubuntu-fan all 6.12.10 [34.7 kB]

Freparing to upsek.../gocker.to [37.12.1-obuntui]...

Geteading database... 178251 files and directories currently installed.)

Freparing to unpack.../gocker.to [37.12.1-obuntui]...

Geteiting previously unselected package bridge-utils.

Geteiting previously unselected package docker.to.

Freparing to unpack.../gocker.to [37.12.1-obuntui]...

Adding group 'docker' (GID 130) ...

Jone.

Freparing to unpack.../gocker.to [37.12.1-obuntui]...

Adding group 'docker' (GID 30.0 ...)

Jone.

Freparing to unpack.../gocker.to [37.12.1-obuntui]...

Adding group 'docker' (GID 30
```

\$ sudo snap install docker

```
mca@S55:~$ sudo snap install docker
docker 20.10.14 from Canonical* installed
```

5.Before testing Docker, check the version installed using the following command:

\$ docker -version

```
mca@S55:~$ docker --version
Docker version 17.12.1-ce, build 7390fc6
```

6. Pull an image from the Docker hub using the following command:

\$ sudo docker run hello-world

```
mca@S55:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:80f31da1ac7b312ba29d65080fddf797dd76acfb870e677f390d5acba9741b17
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/
```

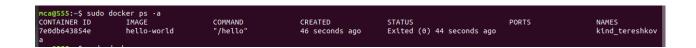
7.Check if the docker image has been pulled and is present in your system using the following command:

\$ sudo docker images

mca@S55:~\$	sudo docker	images		
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	feb5d9fea6a5	8 months ago	13.3kB

8.To display all the containers pulled, use the following command:

\$ sudo docker ps -a



9.To check for containers in a running state, use the following command:

\$ sudo docker ps

mca@S55:~\$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
mca@S55:~\$ docker --version
Docker version 17.12.1-ce, build 7390fc6