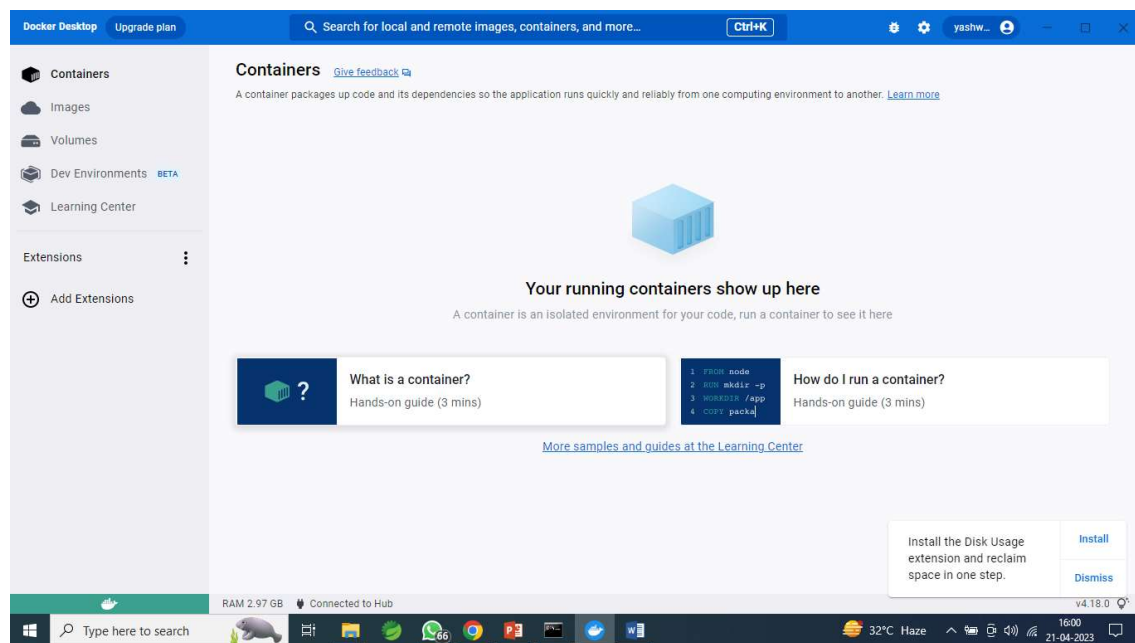Assignment: 4
Name :Yashwant Singh
Topic : Docker
Date : 21 April 2023

Docker Installation

Docker Basic Commands

```
Microsoft Windows [Version 10.0.19045.2846]
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C:\Users\Administrator>docker ps
CONTAINER ID    IMAGE      COMMAND    CREATED     STATUS      PORTS       NAMES

C:\Users\Administrator>docker version
Client:
 Cloud integration: v1.0.31
 Version:           20.10.24
 API version:       1.41
 Go version:        go1.19.7
 Git commit:        297e128
 Built:             Tue Apr  4 18:28:08 2023
 OS/Arch:           windows/amd64
 Context:           default
 Experimental:      true

Server: Docker Desktop 4.18.0 (104112)
 Engine:
  Version:          20.10.24
  API version:      1.41 (minimum version 1.12)
  Go version:       go1.19.7
  Git commit:       5d6db84
  Built:            Tue Apr  4 18:18:42 2023
  OS/Arch:          linux/amd64
```

```
C:\Users\Administrator>docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
latest: Pulling from docker/getting-started
c158987b0551: Pull complete
1e35f6679fab: Pull complete
cb9626c74200: Pull complete
b6334b6ace34: Pull complete
f1d1c9928c82: Pull complete
9b6f639ec6ea: Pull complete
ee68d3549ec8: Pull complete
33e0cbbb4673: Pull complete
4f7e34c2de10: Pull complete
Digest: sha256:d79336f4812b6547a53e735480dde67f8f8f7071b414fbd9297609ffb989abc1
Status: Downloaded newer image for docker/getting-started:latest
95308df0be2b640c1c5080c1af97bb160829c269916efda9e2b9609c1c7bfd0e

C:\Users\Administrator>docker history docker/getting-started
IMAGE           CREATED          CREATED BY                                      SIZE        COMMENT
3e4394f6b72f    3 months ago     COPY /app/site /usr/share/nginx/html # build…   4.5MB       buildkit.docker
<missing>       3 months ago     COPY /app.zip /usr/share/nginx/html/assets/a…   1.75MB      buildkit.docker
<missing>       4 months ago     /bin/sh -c set -x    && apkArch="$(cat /etc…    29.2MB
<missing>       4 months ago     /bin/sh -c #(nop)  ENV NJS_VERSION=0.7.9        0B
<missing>       4 months ago     /bin/sh -c #(nop)  CMD ["nginx" "-g" "daemon…   0B
<missing>       4 months ago     /bin/sh -c #(nop)  STOPSIGNAL SIGQUIT          0B
<missing>       4 months ago     /bin/sh -c #(nop)  EXPOSE 80                    0B
```

```
<missing>      4 months ago    /bin/sh -c #(nop) ADD file:587cae71969871d3c…    7.05MB

C:\Users\Administrator>docker search xyz
NAME                                    DESCRIPTION                       STARS      OFFICIAL     AUTOMA
xyzsam/gem5-aladdin                     The gem5-aladdin SoC simulator    6
xyzzpwn/hexo                                                              2
xyzoo/vlmcsd                                                             1
xyzzpwn/pwn_231                                                          0
xyzrobotics/ubuntu16.04-gpu                                             0
xyznx6s/po                                                              0
xyzrobotics/ubuntu16.04                                                0
xyzli/ks-controller-manager                                           0
xyzjace/ecs-scale-test                                                0
xyzxyz442/pyspark-deltalake-notebook                                 0
xyzjun/netcore.aspnet                                                  0
xyzsam/smaug                                                          0
xyzrobotics/ubuntu20.04                                              0
xyzjun/netcore.sdk                                                    0
xyzli/ks-apiserver                                                    0
xyzjun/netcore.runtime                                               0
xyzzpwn/python_flask                                                  0
xyzxyz442/pyspark-airflow-worker                                    0
xyzuan/xdocker                                                        0
xyzli/openpitrix-jobs                                                0
xyzblocks/web-scraper                                                0
xyzxyz442/than-view-thru-cxense-mgmt-api                            0
```

```
C:\Users\Administrator> docker ps -a
CONTAINER ID    IMAGE                 COMMAND                 CREATED          STATUS             PORTS
95308df0be2b    docker/getting-started "/docker-entrypoint.…" 37 seconds ago   Up 35 seconds      0.0.0

C:\Users\Administrator>docker images
REPOSITORY              TAG        IMAGE ID       CREATED        SIZE
docker/getting-started  latest     3e4394f6b72f   3 months ago   47MB

C:\Users\Administrator>docker start 3e4394f6b72f
Error response from daemon: No such container: 3e4394f6b72f
Error: failed to start containers: 3e4394f6b72f

C:\Users\Administrator>docker ps
CONTAINER ID    IMAGE                 COMMAND                 CREATED          STATUS
95308df0be2b    docker/getting-started "/docker-entrypoint.…" About a minute ago   Up About a minute

C:\Users\Administrator> docker stat
docker: 'stat' is not a docker command.
See 'docker --help'

C:\Users\Administrator>docker stats
CONTAINER ID    NAME              CPU %    MEM USAGE / LIMIT    MEM %    NET I/O       BLOCK I/O
95308df0be2b    amazing_robinson  0.00%    3.938MiB / 5.749GiB  0.07%    1.32kB / 0B   324kB / 12.3k
CONTAINER ID    NAME              CPU %    MEM USAGE / LIMIT    MEM %    NET I/O       BLOCK I/O
95308df0be2b    amazing_robinson  0.00%    3.938MiB / 5.749GiB  0.07%    1.32kB / 0B   324kB / 12.3k
CONTAINER ID    NAME              CPU %    MEM USAGE / LIMIT    MEM %    NET I/O       BLOCK I/O
```

```
CONTAINER ID    NAME              CPU %     MEM USAGE / LIMIT      MEM %     NET I/O         BLOCK I/O
95308df0be2b    amazing_robinson  0.00%     3.938MiB / 5.749GiB    0.07%     1.32kB / 0B     324kB / 12.3k
CONTAINER ID    NAME              CPU %     MEM USAGE / LIMIT      MEM %     NET I/O         BLOCK I/O
95308df0be2b    amazing_robinson  0.00%     3.938MiB / 5.749GiB    0.07%     1.32kB / 0B     324kB / 12.3k
CONTAINER ID    NAME              CPU %     MEM USAGE / LIMIT      MEM %     NET I/O         BLOCK I/O
95308df0be2b    amazing_robinson  0.00%     3.938MiB / 5.749GiB    0.07%     1.32kB / 0B     324kB / 12.3k
CONTAINER ID    NAME              CPU %     MEM USAGE / LIMIT      MEM %     NET I/O         BLOCK I/O
95308df0be2b    amazing_robinson  0.00%     3.938MiB / 5.749GiB    0.07%     1.32kB / 0B     324kB / 12.3k
^C
C:\Users\Administrator> docker top
"docker top" requires at least 1 argument.
See 'docker top --help'.

Usage:  docker top CONTAINER [ps OPTIONS]

Display the running processes of a container

C:\Users\Administrator>
```