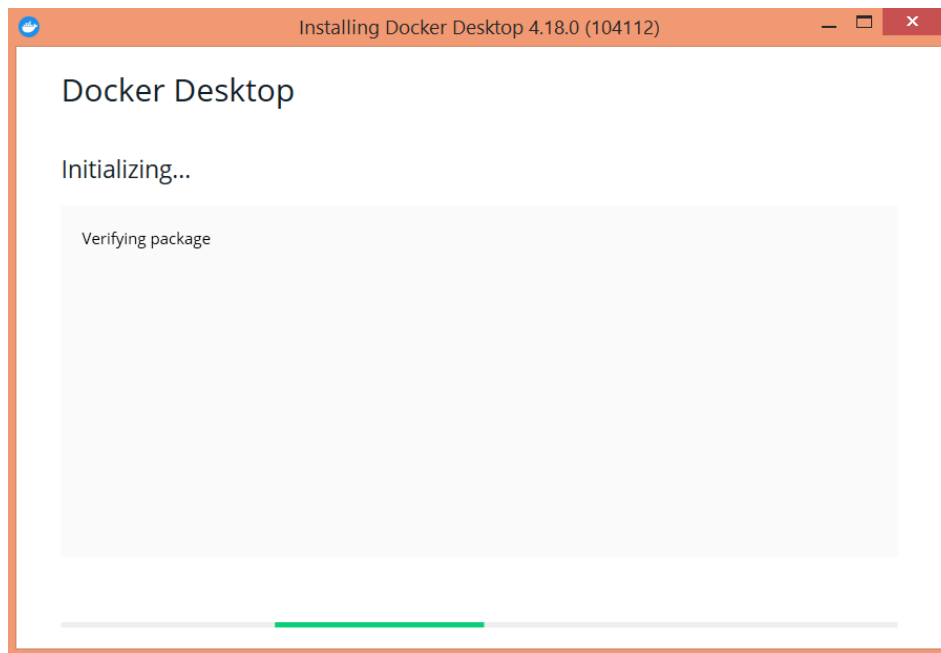
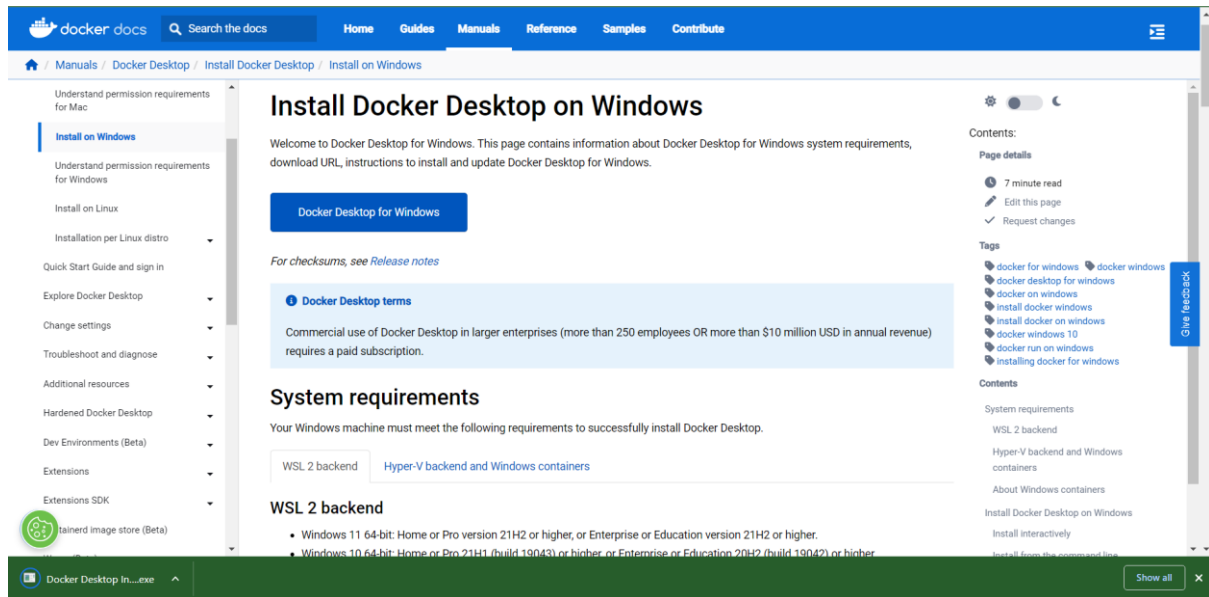
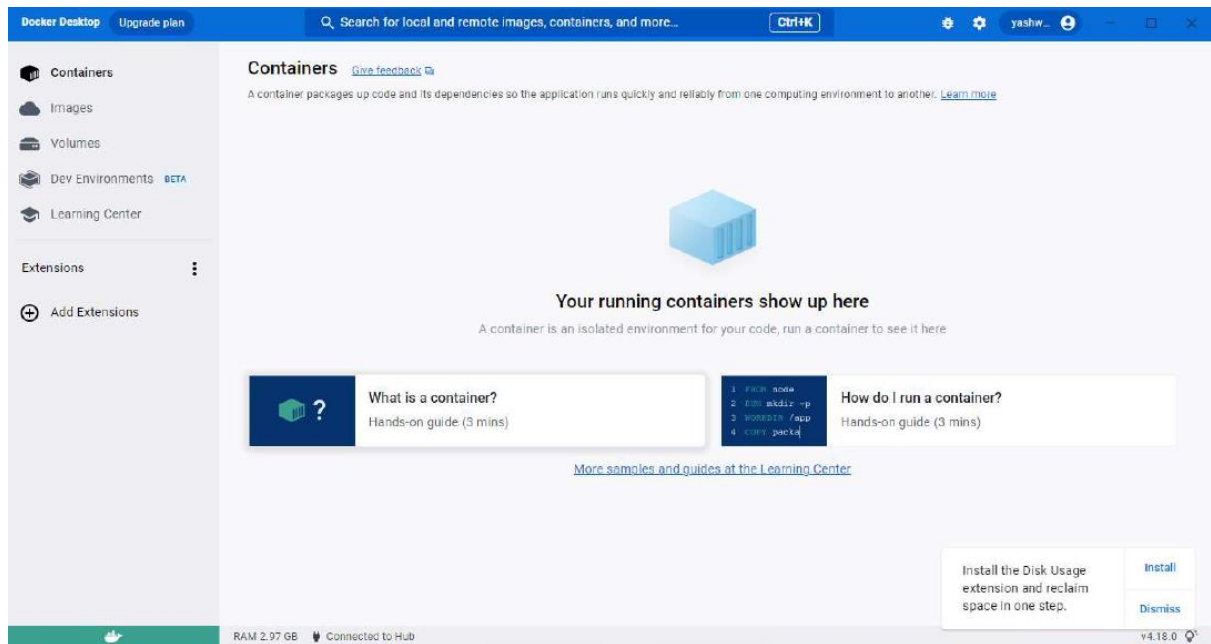


Docker Assignment

Docker Installation

from the link provided download the docker desktop





Basic Docker Commands

1. Docker version

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.2846]
(c) Microsoft Corporation. All rights reserved.

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
```

2. docker run -d -p 80:80 docker/getting-started

```
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
```

3. docker history

```
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	

4. docker search

```
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		

5. docker ps -a, docker images, docker ps

```
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

6.docker top

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
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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:\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
```