



SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)
DEPARTMENT OF INFORMATION TECHNOLOGY



COURSE CODE:DJ19ITHNL1

DATE:17/03/23

COURSE NAME: DevOps

CLASS: IT-HN3

EXPERIMENT NO. 3

AIM / OBJECTIVE: To install and configure Docker.

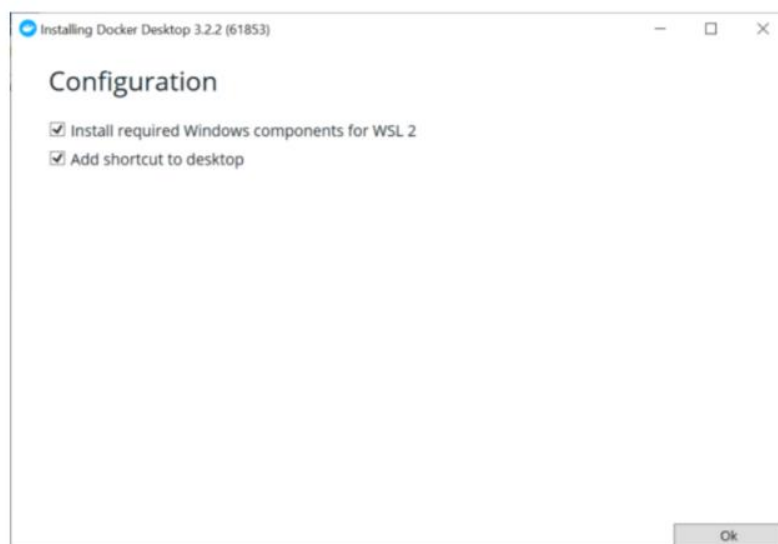
DESCRIPTION OF EXPERIMENT:

Steps of Installation:

- The following hardware prerequisites are required to successfully run WSL 2 on Windows 10 or Windows 11:
 - 64-bit processor with [Second Level Address Translation \(SLAT\)](#)
 - 4GB system RAM
 - BIOS-level hardware virtualization support must be enabled in the BIOS settings. For more information, see [Virtualization](#).
- Download and install the [Linux kernel update package](#).

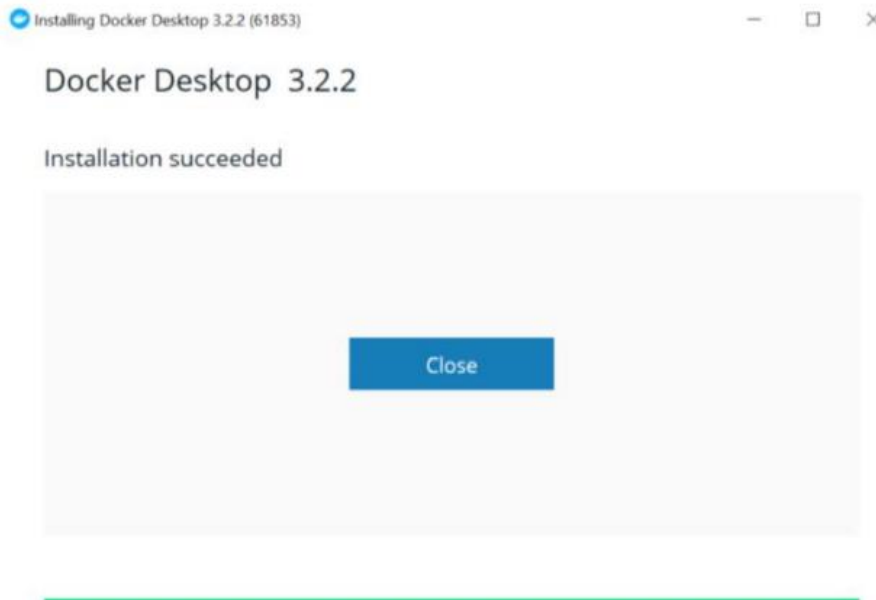
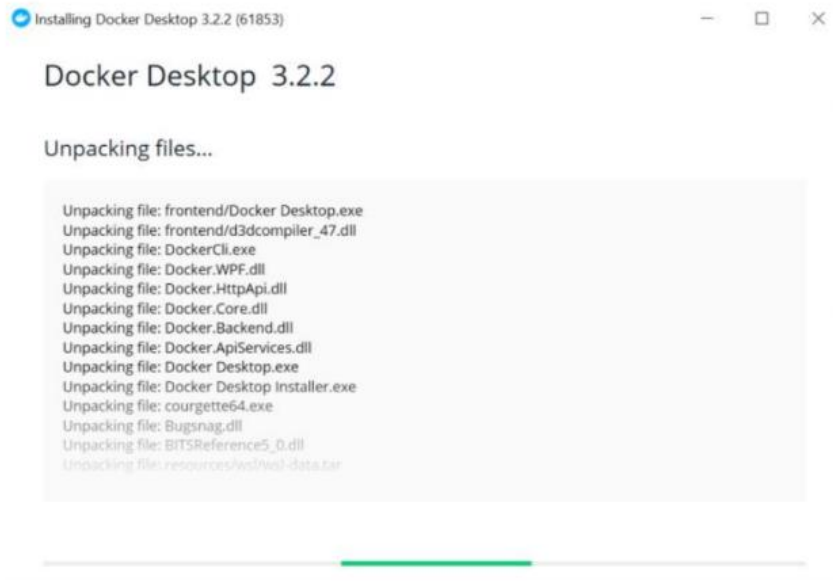
Install Docker hub from

<https://docs.docker.com/docker-for-windows/install/> and the follow the steps





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After installation in command prompt execute this command if you are getting error for linux kernel



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```
Command Prompt - wsl --update
Microsoft Windows [Version 10.0.19044.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Vishal Sankhe>wsl --update
Installing: Windows Subsystem for Linux
[===== 16.0% ]
```

TECHNOLOGY STACK USED:

- Docker

Output:

```
Command Prompt
Digest: sha256:d79336f4812b6547a53e735480dde67f8f8f7071b414fbd9297609ffb989abc1
Status: Downloaded newer image for docker/getting-started:latest
d0a7a5d7618546adb0185ec13f8c68b9b39615981c08a0960a01cb51d24f99ba

C:\Users\deadp>docker run hello world
Unable to find image 'hello:latest' locally
docker: Error response from daemon: pull access denied for hello, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users\deadp>docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:ffb13da98453e0f04d33a6eee5bb8e46ee50d08ebe17735fc0779d0349e889e9
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/

C:\Users\deadp>
```



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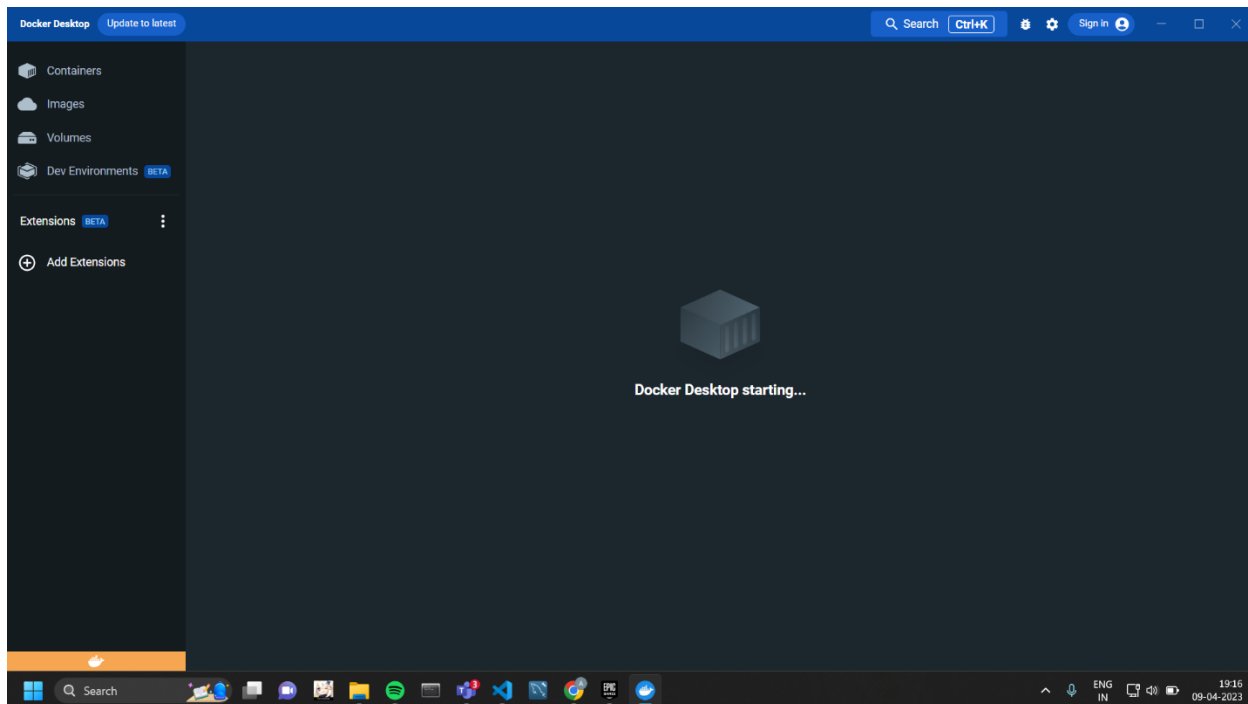


```
C:\Users\deadp>docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
docker/getting-started latest      3e4394f6b72f 3 months ago 47MB
docker101tutorial   latest      df4d4b49b7af 3 months ago 47MB
alpine/git           latest      22d84a66cda4 4 months ago 43.6MB
gcr.io/k8s-minikube/kicbase v0.0.36    866c1fe4e3f2 5 months ago 1.11GB
hello-world          latest      feb5d9fea6a5 18 months ago 13.3kB

C:\Users\deadp>docker ps --all
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
8b47310f9652   hello-world    "hello"                  39 seconds ago Exited (0) 37 seconds ago           brave_ja
ng
d0a7a5d76185   docker/getting-started "/docker-entrypoint..." About a minute ago Up About a minute 0.0.0.0:80->80/tcp trusting
b367edd85517   gcr.io/k8s-minikube/kicbase:v0.0.36 "/usr/local/bin/entr..." 3 months ago   Exited (137) 3 months ago           minikube
f2bc2b193a20   docker101tutorial "/docker-entrypoint..." 3 months ago   Exited (0) 3 months ago           docker-t
utorial
b6a04d4cfe2b   alpine/git     "git clone https://g..." 3 months ago   Exited (0) 3 months ago           repo

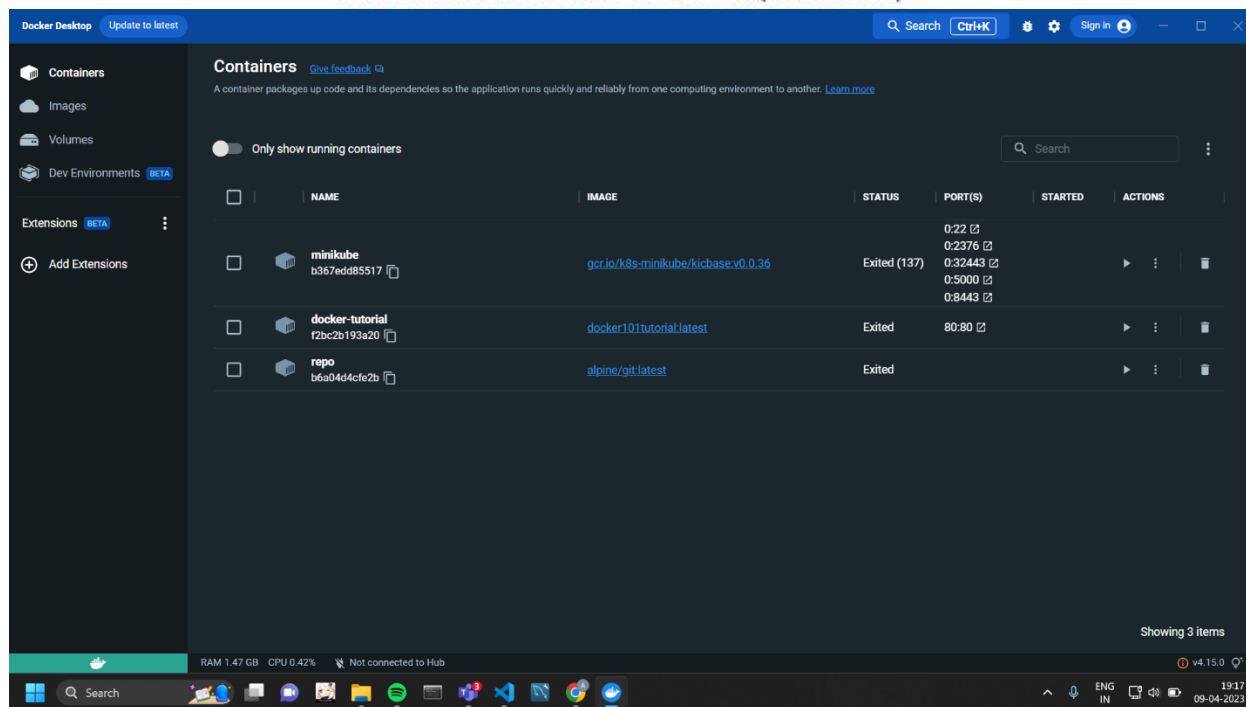
C:\Users\deadp>
```

Docker Tool





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OBSERVATION/DISCUSSION OF RESULT:

- We have successfully executed basic steps in Docker and explored the docker tool.

CONCLUSION:

Hence, we have Successfully explored docker tool and achieved the aim of the experiment.

REFERENCES:

[1] The reference doc provided with the assignment.