

Experiment-4

**Use of existing
images from
Docker Hub**



Prepared By

Bhuvnesh Sanathra

Semester-7



**Department of Information Technology
Faculty of technology,
Dharmsinh Desai University
College road, Nadiad- 387001**

Use of existing
images from
Docker Hub

How to Use of existing images from Docker Hub ?

- I took the example of **MongoDB** image from docker hub

Steps to Use of existing images from Docker Hub ?

- Check the docker images

docker images

```
bhuvi@Bhuvnesh:~$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	e784f4560448	2 weeks ago	188MB

Steps to Use of existing images from Docker Hub ?

- Pull the mongoDB image

docker pull mongo:latest

```
bhuvi@Bhuvnesh:~$ docker pull mongo:latest
latest: Pulling from library/mongo
a8b1c5f80c2d: Downloading 298.2kB/29.53MB
408f9504c110: Download complete
03d18b647343: Downloading 888.1kB/1.501MB
c24f68d81052: Waiting
1df517147e11: Waiting
77d5ebe2f2e0: Waiting
c21b89d414fc: Waiting
4138c7eb3b71: Waiting
```

Steps to Use of existing images from Docker Hub ?

```
bhuvi@Bhuvnesh:~$ docker pull mongo:latest
latest: Pulling from library/mongo
a8b1c5f80c2d: Pull complete
408f9504c110: Pull complete
03d18b647343: Pull complete
c24f68d81052: Pull complete
1df517147e11: Pull complete
77d5ebe2f2e0: Pull complete
c21b89d414fc: Pull complete
4138c7eb3b71: Pull complete
Digest: sha256:97aac78a80553735b3d9b9b7212803468781b4859645f892a3d04e6b621a7b77
Status: Downloaded newer image for mongo:latest
docker.io/library/mongo:latest
```


Steps to Use of existing images from Docker Hub ?

- Check the docker images

docker images

```
bhuvi@Bhuvnesh:~$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	e784f4560448	2 weeks ago	188MB
mongo	latest	ff65a94ec485	3 weeks ago	795MB

Steps to Use of existing images from Docker Hub ?

- Make directory inside root folder

```
# mkdir mongoDB-bhuvi
```

- Change directory

```
# cd mongoDB-bhuvi
```

Steps to Use of existing images from Docker Hub ?

- Run the image inside the folder

```
# docker run -d -p 2717:27017 -v ~/mongoDB-bhuvi:/data/db --name bhuvimongo mongo:latest
```

-d -> run in background

-p -> bind the port

-v -> volume

--name -> name of the image

Steps to Use of existing images from Docker Hub ?

- Container created check the container

docker ps -a

```
bhuvi@Bhuvnesh:~/mongoDB-bhuvi$ docker run -d -p 2717:27017 -v ~/mongoDB-bhuvi:/data/db --name bhuvimongo mongo:latest
532da352c1d16d271b45c84cc090e173e4cfc68032517cd3b2f689d7a479f85f
```

```
bhuvi@Bhuvnesh:~/mongoDB-bhuvi$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
532da352c1d1	mongo:latest	"docker-entrypoint.s..."	About a minute ago	Up About a minute
0.0.0.0:2717->27017/tcp		bhuvimongo		
4619dc5cfd	nginx:latest	"/docker-entrypoint..."	5 hours ago	Exited (255) 22 minutes ago
0.0.0.0:80->80/tcp		bhuvi		

Steps to Use of existing images from Docker Hub ?

- Go inside container

```
# docker exec -it bhuvimongo bash
```

```
bhuvi@Bhuvnesh:~/mongoDB-bhuvi$ docker exec -it bhuvimongo bash  
root@532da352c1d1:/# mongo|
```

Steps to Use of existing images from Docker Hub ?

- Go inside container

```
# docker exec -it bhuvimongo bash
```

```
bhuvi@Bhuvnesh:~/mongoDB-bhuvi$ docker exec -it bhuvimongo bash  
root@532da352c1d1:/# mongo|
```

```
> show dbs  
admin    0.000GB  
config  0.000GB  
local    0.000GB
```

Steps to Use of existing images from Docker Hub ?

```
admin    0.000GB
config   0.000GB
local    0.000GB
> use test
switched to db test
> db.user.insert({ "name":"truly mittal"})
WriteResult({ "nInserted" : 1 })
> db.user.find()
{ "_id" : ObjectId("5d403b63c807713d6c922190"), "name" : "truly mittal" }
> exit
bye
```

Steps to Use of existing images from Docker Hub ?

```
→ mongodb-youtube-docker ls
```

WiredTiger	collection-2--296612116891844153.wt	index-6--296612116891844153.wt
WiredTiger.lock	collection-4--296612116891844153.wt	index-8--296612116891844153.wt
WiredTiger.turtle	collection-7--296612116891844153.wt	journal
WiredTiger.wt	diagnostic.data	mongod.lock
WiredTigerLAS.wt	index-1--296612116891844153.wt	sizeStorer.wt
_mdb_catalog.wt	index-3--296612116891844153.wt	storage.bson
collection-0--296612116891844153.wt	index-5--296612116891844153.wt	

Thank You