



Academic Year: 2024-25

Semester: V Class /

Branch: TE IT

Subject: DevOPs Lab (DL)

Subject Lab In-charge: Prof. Sujata Oak

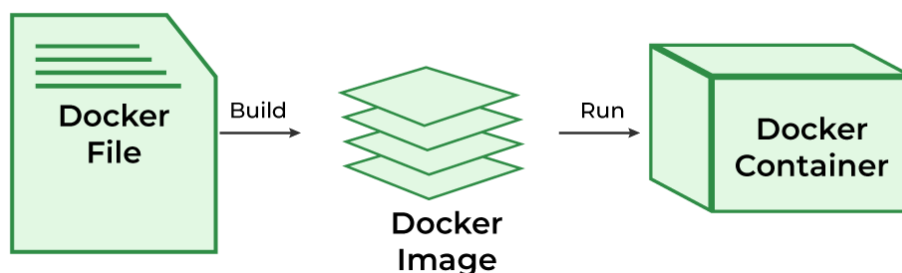
## EXPERIMENT NO. 09

**Aim: To build an image for a sample web application from a docker file using various docker file instructions**

**Theory:** The Dockerfile uses DSL (Domain Specific Language) and contains instructions for generating a Docker image. Dockerfile will define the processes to quickly produce an image. While creating your application, you should create a Dockerfile in order since the Docker daemon runs all of the instructions from top to bottom.

An artifact with several layers and a lightweight, compact stand-alone executable package that contains all of the components required to run a piece of software, including the code, a runtime, libraries, environment variables, and configuration files is called a [Docker image](#).

**A container is a runtime instance of an image.** Containers make development and deployment more efficient since they contain all the dependencies and parameters needed for the application it runs completely isolated from the host environment.



### Dockerfile commands/Instructions

#### 1. FROM

- Represents the base image(OS), which is the command that is executed first before any other commands.

Syntax

*FROM <ImageName>*

#### 2. COPY

- The copy command is used to copy the file/folders to the image while building the image.*



### *Syntax:*

*COPY <Source> <Destination>*

### **3] RUN**

- Scripts and commands are run with the RUN instruction. The execution of RUN commands or instructions will take place while you create an image on top of the prior layers (Image).

### *Syntax*

*RUN < Command + ARGS>*

### **4] CMD**

- The main purpose of the CMD command is to start the process inside the container and it can be overridden.

### *Syntax*

*CMD [command + args]*

### **Stages of Creating Docker Image from Dockerfile**

The following are the stages of creating docker image form Dockerfile:

1. Create a file named Dockerfile.
2. Add instructions in Dockerfile.
3. Build Dockerfile to create an image.
4. Run the image to create a container.

### **IMPLEMENTATION:**

#### **PART I: Containerize an application using docker CLI Commands:**

Let's create an nginx webserver, it is a web server platform which helps to host your web applications.

**STEP1: Download nginx official image and then containerized your web application in it.**

**#docker images**

```
devasc@labvm:~/Desktop/DOCKER_LAB$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
mysql                latest             a82a8f162e18       5 weeks ago        586MB
hello-world          latest             d2c94e258dcb       16 months ago      13.3kB
```



#docker pull nginx

```
devasc@labvm:~/Desktop/DOCKER_LAB$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
e4fff0779e6d: Pull complete
2a0cb278fd9f: Pull complete
7045d6c32ae2: Pull complete
03de31afb035: Pull complete
0f17be8dcff2: Pull complete
14b7e5e8f394: Pull complete
23fa5a7b99a6: Pull complete
Digest: sha256:447a8665cc1dab95b1ca778e162215839ccbb9189104c79d7ec3a81e1457
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
```

```
devasc@labvm:~/Desktop/DOCKER_LAB$ docker images
```

| REPOSITORY  | TAG    | IMAGE ID     | CREATED       | SIZE   |
|-------------|--------|--------------|---------------|--------|
| nginx       | latest | 5ef79149e0ec | 2 weeks ago   | 188MB  |
| mysql       | latest | a82a8f162e18 | 5 weeks ago   | 586MB  |
| hello-world | latest | d2c94e258dcb | 16 months ago | 13.3kB |

**STEP2: Run the container from nginx image**

root@labvm:/home/devasc/Desktop/DOCKER\_LAB# docker run --name webserver1 5ef

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker run --name webserver1 5ef
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/08/31 18:32:00 [notice] 1#1: using the "epoll" event method
2024/08/31 18:32:00 [notice] 1#1: nginx/1.27.1
2024/08/31 18:32:00 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/08/31 18:32:00 [notice] 1#1: OS: Linux 5.4.0-37-generic
2024/08/31 18:32:00 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/08/31 18:32:00 [notice] 1#1: start worker processes
2024/08/31 18:32:00 [notice] 1#1: start worker process 29
2024/08/31 18:32:00 [notice] 1#1: start worker process 30
```

In another terminal

#docker ps -a



```
devasc@labvm:~/Desktop/DOCKER_LAB$ sudo su
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker ps -a
```

| CONTAINER ID     | IMAGE       | COMMAND                  | CREATED            | STATUS |
|------------------|-------------|--------------------------|--------------------|--------|
| 34816ce8fdab     | 5ef         | "/docker-entrypoint...." | About a minute ago | Up Ab  |
| bc8a1f0b194f     | hello-world | "/hello"                 | 6 days ago         | Exite  |
| d (0) 6 days ago |             | peaceful_aryabhata       |                    |        |
| fbd148039aee     | hello-world | "/hello"                 | 6 days ago         | Exite  |
| d (0) 6 days ago |             | infallible_cerf          |                    |        |

In previous terminal: ctrl+C ie; exit from container

In another terminal

#docker ps -a

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker ps -a
```

| CONTAINER ID | IMAGE       | COMMAND                  | CREATED       | STATUS     |
|--------------|-------------|--------------------------|---------------|------------|
| 34816ce8fdab | 5ef         | "/docker-entrypoint...." | 3 minutes ago | Exited (0) |
| bc8a1f0b194f | hello-world | "/hello"                 | 6 days ago    | Exited (0) |
| 6 days ago   |             | peaceful_aryabhata       |               |            |
| fbd148039aee | hello-world | "/hello"                 | 6 days ago    | Exited (0) |
| 6 days ago   |             | infallible_cerf          |               |            |

Remove the container:

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker rm 348
348
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker ps -a
```

| CONTAINER ID | IMAGE       | COMMAND            | CREATED    | STATUS                |
|--------------|-------------|--------------------|------------|-----------------------|
| bc8a1f0b194f | hello-world | "/hello"           | 6 days ago | Exited (0) 6 days ago |
|              |             | peaceful_aryabhata |            |                       |
| fbd148039aee | hello-world | "/hello"           | 6 days ago | Exited (0) 6 days ago |
|              |             | infallible_cerf    |            |                       |

In terminal 1:

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker run -it -p 3031:80 --name server1 nginx:latest
bash
```

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker run -it -p 3031:80 --name nse
rver1 nginx:latest bash
```

In Another Terminal:

#docker ps -a





```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
595c2fa10371   nginx:latest   "/docker-entrypoint..." 8 minutes ago  Up 8 min
tes            0.0.0.0:3031->80/tcp, :::3031->80/tcp
bc8a1f0b194f   hello-world    "/hello"                 6 days ago    Exited (0
) 6 days ago
fbd148039aee   hello-world    "/hello"                 6 days ago    Exited (0
) 6 days ago
infalible_cerf
```

Lets create a static website inside container. I need to go to the location where my index.html file is:

```
# cd /usr/share/nginx/html/
```

```
root@595c2fa10371:/# cd /usr/share/nginx/html/
```

```
#ls
```

```
root@595c2fa10371:/usr/share/nginx/html# ls
50x.html  index.html
```

Rename the default index.html to index.html\_backup

```
#mv index.html index.html_backup
```

```
root@595c2fa10371:/usr/share/nginx/html# mv index.html index.html_backup
```

```
#nano index.html
```

```
root@595c2fa10371:/usr/share/nginx/html# nano index.html
```

Nano not found: Because the container that I am running inside the shell says that nano application is not available inside the container. So first install nano: apt install nano

```
root@595c2fa10371:/usr/share/nginx/html# nano index.html
bash: nano: command not found
```

```
root@595c2fa10371:/usr/share/nginx/html# apt install nano
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package nano is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'nano' has no installation candidate
```



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```
root@595c2fa10371:/usr/share/nginx/html# apt update
Get:1 http://deb.debian.org/debian bookworm InRelease [151 kB]
Get:2 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Get:3 http://deb.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 Packages [8787 kB]
Get:5 http://deb.debian.org/debian bookworm-updates/main amd64 Packages [13.8 kB]
Get:6 http://deb.debian.org/debian-security bookworm-security/main amd64 Packages [179 kB]
Fetched 9234 kB in 1s (6581 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
10 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@595c2fa10371:/usr/share/nginx/html# apt install nano
Reading package lists... Done
```

```
Processing triggers for libc-bin (2.36-9+deb12u7) ...
root@595c2fa10371:/usr/share/nginx/html# nano index.html
```

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<title> Login Page </title>
<style>
Body {
  font-family: Calibri, Helvetica, sans-serif;
  background-color: pink;
}
button {
  background-color: #4CAF50;
  width: 100%;
  color: orange;
  padding: 15px;
  margin: 10px 0px;
  border: none;
  cursor: pointer;
}
form {
  border: 3px solid #f1f1f1;
}
input[type=text], input[type=password] {
  width: 100%;
  margin: 8px 0;
  padding: 12px 20px;
  display: inline-block;
  border: 2px solid green;
  box-sizing: border-box;
}
button:hover {
  opacity: 0.7;
```



```
}  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    margin: 10px 5px;  
}  
  
.container {  
    padding: 25px;  
    background-color: lightblue;  
}  
</style>  
</head>  
<body>  
    <center> <h1> <b>Student Login Form Designed by Sujata Oak</b> </h1> </center>  
    <form>  
        <div class="container">  
            <label>Username : </label>  
            <input type="text" placeholder="Enter Username" name="username" required>  
            <label>Password : </label>  
            <input type="password" placeholder="Enter Password" name="password" required>  
            <button type="submit">Login</button>  
            <input type="checkbox" checked="checked"> Remember me  
            <button type="button" class="cancelbtn"> Cancel</button>  
            Forgot <a href="#"> password? </a>  
        </div>  
    </form>  
</body>  
</html>
```

To check nginx service status:

```
root@595c2fa10371:/usr/share/nginx/html# service nginx status  
nginx is not running ... failed!
```



```
root@595c2fa10371:/usr/share/nginx/html# service nginx start
2024/08/31 19:57:58 [notice] 170#170: using the "epoll" event method
2024/08/31 19:57:58 [notice] 170#170: nginx/1.27.1
2024/08/31 19:57:58 [notice] 170#170: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/08/31 19:57:58 [notice] 170#170: OS: Linux 5.4.0-37-generic
2024/08/31 19:57:58 [notice] 170#170: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/08/31 19:57:58 [notice] 171#171: start worker processes
root@595c2fa10371:/usr/share/nginx/html# 2024/08/31 19:57:58 [notice] 171#171: s
start worker process 172
2024/08/31 19:57:58 [notice] 171#171: start worker process 173
172.17.0.1 - - [31/Aug/2024:19:58:36 +0000] "GET / HTTP/1.1" 200 1727 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/126.0.0 Safari/537.36" "-"
```

### STEP 3:

GOTO BROWSER: localhost:3031

← → ↻ ⓘ localhost:3031 ☆ 📁 | 🏠 👤 ⋮

## Student Login Form

Username :

Password :

Login

☒ Remember me  [Forgot password?](#)

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker stop 595
595
```

Goto browser → Refresh page . Your Container is stopped now





## This site can't be reached

**localhost** refused to connect.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

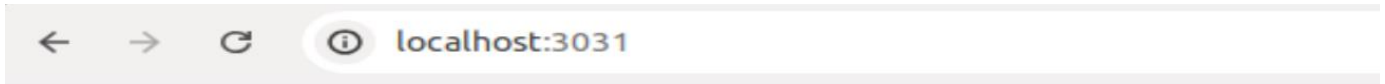
ERR\_CONNECTION\_REFUSED

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker start 595
595
```

Goto browser → Refresh page . Your Container is not started

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker restart 595
595
```

Goto browser → Refresh page . Your Container is not restarted



## This site can't be reached

**localhost** refused to connect.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

ERR\_CONNECTION\_REFUSED

# docker exec 595 service nginx start

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker exec 595 service nginx start
2024/08/31 20:20:56 [notice] 18#18: using the "epoll" event method
2024/08/31 20:20:56 [notice] 18#18: nginx/1.27.1
2024/08/31 20:20:56 [notice] 18#18: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/08/31 20:20:56 [notice] 18#18: OS: Linux 5.4.0-37-generic
2024/08/31 20:20:56 [notice] 18#18: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/08/31 20:20:56 [notice] 19#19: start worker processes
2024/08/31 20:20:56 [notice] 19#19: start worker process 20
2024/08/31 20:20:56 [notice] 19#19: start worker process 21
```

Goto Browser and refresh it:



← → ↻ ⓘ localhost:3031 ☆ 📁 | 🏠 👤 ⋮

## Student Login Form

Username :

Password :

Login

☒ Remember me  Forgot [password?](#)

Firstly stop the container:

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker stop 595  
595
```

#docker pause 595

#docker unpause 595

Then, Remove the Container

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker rm 595  
595
```

To Verify container is removed or not:

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB# docker ps -a
```

| CONTAINER ID | IMAGE              | COMMAND  | CREATED    | STATUS                | POR |
|--------------|--------------------|----------|------------|-----------------------|-----|
| TS           | NAMES              |          |            |                       |     |
| bc8a1f0b194f | hello-world        | "/hello" | 6 days ago | Exited (0) 6 days ago |     |
|              | peaceful_aryabhata |          |            |                       |     |
| fbd148039aee | hello-world        | "/hello" | 6 days ago | Exited (0) 6 days ago |     |
|              | infallible_cerf    |          |            |                       |     |



## PART II: DOCKERFILE

Creating a Docker Image for your Application:

This is the recommended workflow for creating your own Docker image for your application:

1. Write a Dockerfile for your application.
2. Build the image with docker build command.
3. Host your Docker image on a registry.
4. Pull and run the image on the target machine.

Docker builds images automatically by reading the instructions from a Dockerfile. It is a text file that contains all commands needed to build a given image.

### STEP 1:

```
devasc@labvm:~$ cd Desktop/  
devasc@labvm:~/Desktop$ cd DOCKER_LAB/  
devasc@labvm:~/Desktop/DOCKER_LAB$ ls  
docker-java  docker-nginx  get-docker.sh  
devasc@labvm:~/Desktop/DOCKER_LAB$ cd docker-nginx/  
devasc@labvm:~/Desktop/DOCKER_LAB/docker-nginx$ ls  
Dockerfile  index.html  style.css
```

### Step 2:

```
devasc@labvm:~/Desktop/DOCKER_LAB/docker-nginx$ nano Dockerfile
```





```
devasc@labvm: ~/Desktop/DOCKER_LAB/docker-nginx
File Edit View Search Terminal Help
GNU nano 4.8 Dockerfile
FROM ubuntu
LABEL author="Sujata Oak"
RUN apt-get update
RUN apt-get install nginx -y
COPY . /var/www/html/
EXPOSE 80
CMD ["nginx","-g","daemon off;"]
```

#docker build -t sujatadocker2024/websitetest .

```
devasc@labvm:~/Desktop/DOCKER_LAB/docker-nginx$ docker build -t sujatadocker2024/websitetest .
[+] Building 1.2s (9/9) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 190B                             0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.8s
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                    0.0s
=> [1/4] FROM docker.io/library/ubuntu:latest@sha256:8a37d68f4f73ebf3d4e 0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 2.41kB                                0.0s
=> CACHED [2/4] RUN apt-get update                               0.0s
=> CACHED [3/4] RUN apt-get install nginx -y                    0.0s
=> [4/4] COPY . /var/www/html/                                  0.1s
=> exporting to image                                           0.1s
=> => exporting layers                                           0.0s
```

```
devasc@labvm:~/Desktop/DOCKER_LAB/docker-nginx$ docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
sujatadocker2024/websitetest  latest      da519d43aaa4      14 seconds ago  126MB
<none>              <none>      5c8d66732fa0      3 minutes ago   126MB
<none>              <none>      96e1fc59d3fa      8 minutes ago   126MB
nginx               latest      5ef79149e0ec      2 weeks ago     188MB
mysql               latest      a82a8f162e18      5 weeks ago     586MB
hello-world         latest      d2c94e258dcb      16 months ago   13.3kB
```

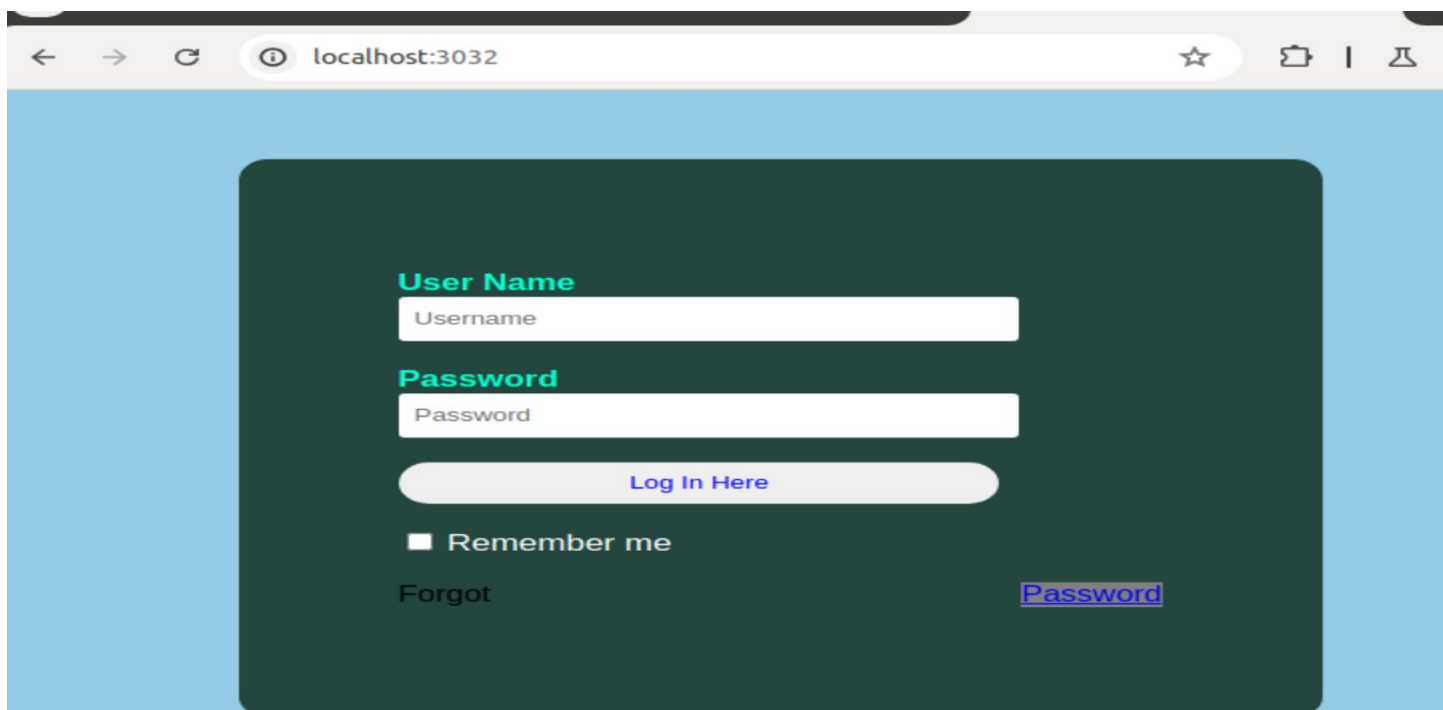
**Step 3:** Run the container now:



```
devasc@labvm:~/Desktop/DOCKER_LAB/docker-nginx$ sudo su
root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker run -d -p 3032:80 --name
e sujata_website da5
ff0cc2e19a4fc46780008104cbe41de8332724e133d4be93363b2c72a0dd9451

root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker ps
CONTAINER ID   IMAGE     COMMAND                  NAMES
ff0cc2e19a4f   da5       "nginx -g 'daemon of..." 46 seconds ago   Up 46 seconds   0.0.
0.0:3032->80/tcp, :::3032->80/tcp   sujata_website
```

**Step 4:** Goto Browser: localhost:3032



**STEP 5:** How to push this image to your dockerhub :

```
devasc@labvm:~/Desktop/DOCKER_LAB/docker-nginx$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
sujatadocker2024/websitetest  latest     da519d43aaa4  14 seconds ago  126MB
<none>              <none>     5c8d66732fa0  3 minutes ago  126MB
<none>              <none>     96e1fc59d3fa  8 minutes ago  126MB
nginx               latest     5ef79149e0ec  2 weeks ago    188MB
mysql               latest     a82a8f162e18  5 weeks ago    586MB
hello-world         latest     d2c94e258dcb  16 months ago  13.3kB

root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker push sujatadocker2024/w
ebsitetest
Using default tag: latest
The push refers to repository [docker.io/sujatadocker2024/websitetest]
b4de1b3782f3: Preparing
7ddb8e83467ff: Preparing
d17b9906ed77: Preparing
f36fd4bb7334: Preparing
denied: requested access to the resource is denied
```



```
root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker tag da5 18061977/apsit31082024:v1
root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker images
```

| REPOSITORY                   | TAG    | IMAGE ID     | CREATED        | SIZE   |
|------------------------------|--------|--------------|----------------|--------|
| 18061977/apsit31082024       | v1     | da519d43aaa4 | 19 minutes ago | 126MB  |
| sujatadocker2024/websitetest | latest | da519d43aaa4 | 19 minutes ago | 126MB  |
| <none>                       | <none> | 5c8d66732fa0 | 22 minutes ago | 126MB  |
| <none>                       | <none> | 96e1fc59d3fa | 27 minutes ago | 126MB  |
| nginx                        | latest | 5ef79149e0ec | 2 weeks ago    | 188MB  |
| mysql                        | latest | a82a8f162e18 | 5 weeks ago    | 586MB  |
| hello-world                  | latest | d2c94e258dcb | 16 months ago  | 13.3kB |

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores

Login Succeeded
```

```
root@labvm:/home/devasc/Desktop/DOCKER_LAB/docker-nginx# docker push 18061977/apsit31082024:v1
The push refers to repository [docker.io/18061977/apsit31082024]
b4de1b3782f3: Pushed
7ddbe83467ff: Pushed
d17b9906ed77: Pushed
f36fd4bb7334: Pushed
v1: digest: sha256:754b62bd4141cff7bb3701128e61aa564e3544e66c8538bfc6e1e3e13ca1f9ae size: 1161
```

Goto Docker hub page and refresh it:

The screenshot shows the Docker Hub web interface. The browser address bar displays 'hub.docker.com'. The navigation bar includes 'dockerhub', 'Explore', 'Repositories' (selected), and 'Organizations'. Below the navigation bar, there is a search bar with '18061977' entered, a 'Search by repository name' button, and a dropdown menu set to 'All Content'. A 'Create repository' button is visible. The main content area shows the repository '18061977 / apsit31082024' with a star count of 0, a download count of 1, and a status of 'Public'. A message indicates 'Contains: Image' and 'Last pushed: 4 minutes ago'. On the right side, there is a diagram showing a repository icon connected to a build icon.





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hub.docker.com/repository/docker/18061977/apsit31082024...

dockerhub Explore Repositories Organizations

18061977 / Repositories / apsit31082024 / General Using 0 of 1 private repositories.

General Tags Builds Collaborators Webhooks Settings

**18061977/apsit31082024** Updated 5 minutes ago

This repository does not have a description **INCOMPLETE**

This repository does not have a category **INCOMPLETE**

**Docker commands** [Public View](#)

To push a new tag to this repository:

```
docker push 18061977/apsit31082024:tagname
```

**Tags**

This repository contains 1 tag(s).

| Tag | OS | Type  | Pulled        | Pushed        |
|-----|----|-------|---------------|---------------|
| v1  |    | Image | 5 minutes ago | 5 minutes ago |

**Automated Builds**

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read](#)

**Conclusion:** In the experiment, we used various docker commands to pull images that were already built, also we created our own images by using docker file instructions for a sample web application and atlast we have pushed the image to docker hub account for others to use the repository.