

Narendiran S– 22CSR128 III CSE C DAY -1 NGINX, DOCKER IMAGES

PUSH AND RUN THE CONTAINER

Docker

Docker is an open-source platform that allows developers to build, package, and run applications in isolated environments called **containers**. It enables applications to run consistently across different systems by bundling all dependencies, libraries, and configurations into a standardized unit.

Docker simplifies software deployment, improves scalability, and ensures applications work the same way across development, testing, and production environments

A **Docker image** is a lightweight, standalone, and executable software package that includes everything needed to run an application: the code, runtime, libraries, environment variables, and dependencies. It serves as a blueprint for creating **Docker containers**.

A **Docker container** is a running instance of a Docker image. It is an isolated environment that runs applications consistently across different systems. Containers are lightweight, fast, and portable, making them ideal for deployment in various environments without compatibility issues

OUTPUT:



Pull the Nginx Docker image

```
docker pull nginx
```

Create a directory for the HTML file

```
mkdir -p ~/nginx-html
```

Create a simple "Hello World" HTML file

```
echo "<h1>Hello, World!</h1>" > ~/nginx-html/index.html
```

Run the Nginx container and mount the HTML file

```
docker run -d -p 8080:80 -v ~/nginx-html:/usr/share/nginx/html --name my-nginx nginx
```

Docker initial commands:

Docker login

```
Docker login -u <username> -p <password>
```

```
Docker build -t my-web-app .
```

```
Docker push my-web-app
```

