## Assignment: 8

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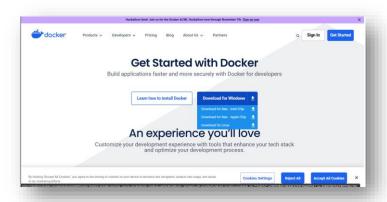
Aim: To build an image for sample web application using Dockerfile.

LO mapped: LO1, LO5

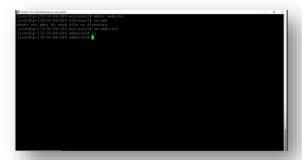
## Theory:

The steps to build an image for sample web application using Dockerfile are as follows:

1. **Install Docker**: Ensure that Docker is installed on your system. You can download and install it from the <u>Docker website</u>.

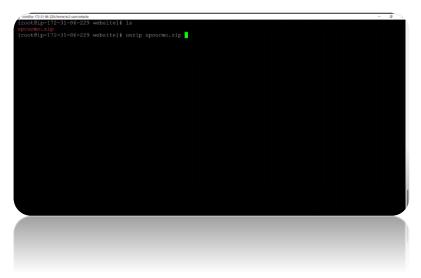


2. **Create a Project Directory**: Start by creating a directory for your project. Inside this directory, you will place your web application code and Dockerfile.



3. **Write a Dockerfile**: Create a Dockerfile in your project directory. This file contains instructions for building the Docker image. Here's a simple example of a Dockerfile for a Node.js web application:

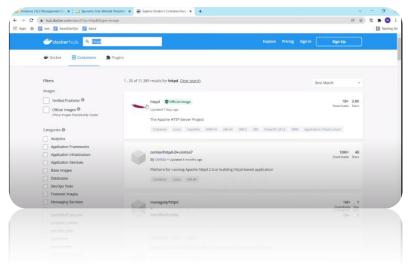
4. **Place Application Code**: Place your web application code, including HTML, JavaScript, CSS, and any other assets, in the same project directory.



5. **Build the Docker Image**: Open a terminal and navigate to your project directory. Run the following command to build the Docker image:

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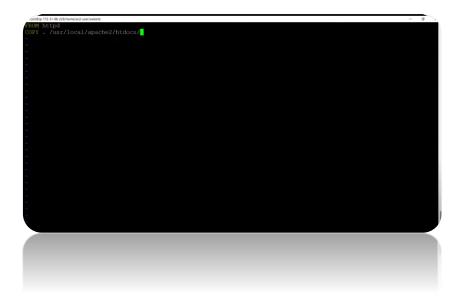




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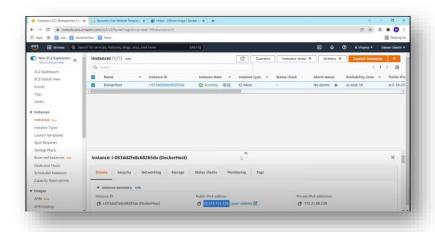
6. **Run a Container**: After successfully building the image, you can run a container based on that image with the following command:

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7. Access Your Web Application: Open a web browser and navigate to http://localhost:8080 to access your web application running in the Docker container.

8.







Your web application is now running inside a Docker container. You can further customize your Dockerfile and the application code as needed. Make sure to manage your containers and images appropriately, especially when dealing with production deployments.

**Conclusion:** We conclude by saying that we built a web app using DocerFile.