

Forter Docker Questions

a. What is a Dockerfile?

Dockerfile is a text file containing instructions for building a Docker image. Each line specifies an action for Docker to perform, Instructions are executed sequentially, creating a layered image.

What does the following Dockerfile instructions mean:

- i. FROM
- ii. CMD
- iii. RUN
- iv. ENTRYPOINT

i. FROM:

Specifies the base image to use.
Provides the starting point for your container's environment.
Common base images include Ubuntu, Python, etc.

ii. CMD:

Defines the command to execute when the container starts. Can be overridden with docker run arguments.

iii. RUN:

Executes a command within the container's filesystem. Often used to install dependencies, copy files, etc.

iv. ENTRYPOINT:

Similar to CMD, but provides more flexibility, Can take arguments passed to docker run.

b. What is a docker image?

b. Docker Image:

Docker Image is a read-only template that encapsulates an application's environment. Built from a Dockerfile and used to create Docker containers. Can be shared and reused across multiple environments.

c. What is a docker container?

c. Docker Container:

A running instance of a Docker image. Provides isolation and portability for applications. Shares the underlying host's operating system kernel.