

docker[®]

BASICS

Concepts

Docker is a containerization platform that allows you to create, deploy, and run applications in isolated environments called "containers".

Containers are an abstraction at the app layer that packages code and dependencies together.

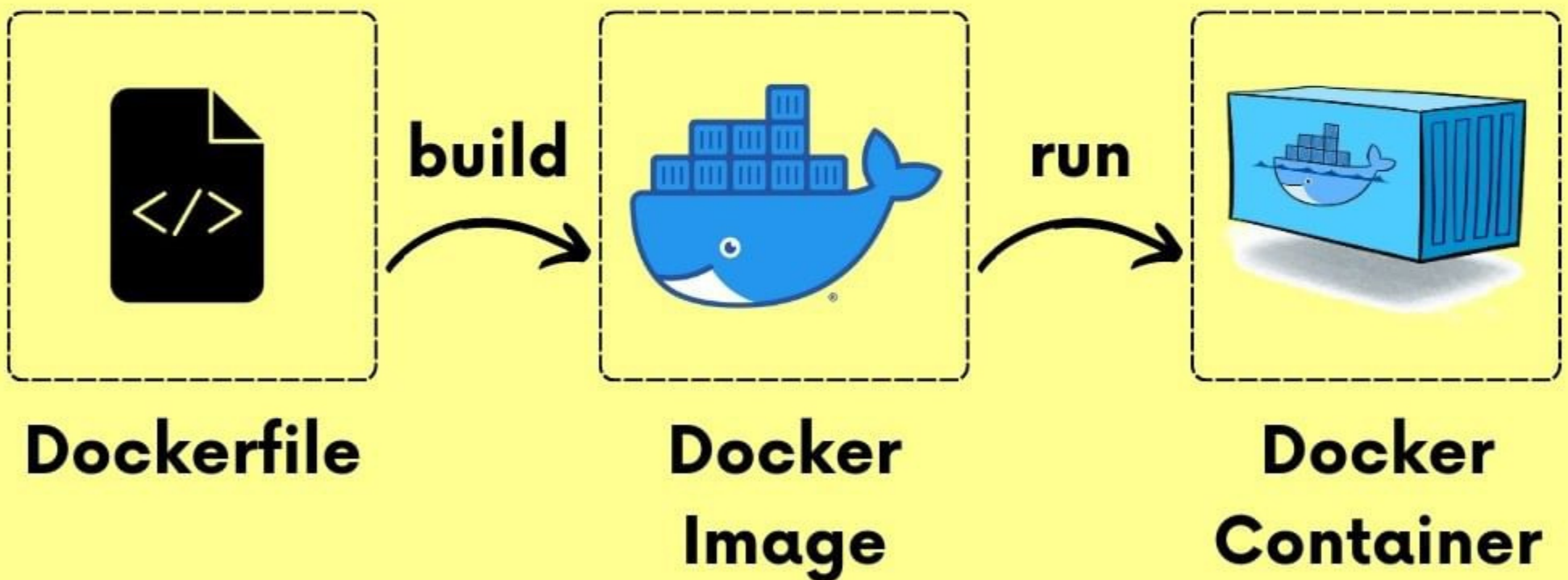
An image is a read-only template with instructions for creating a container.



Concepts

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A Dockerfile is a text document with instructions needed to create an image and run it.

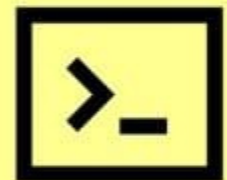


Components

Docker daemon (dockerd) listens for Docker API requests and manages Docker objects such as images, containers, networks, and volumes.



Docker client (docker) is the primary way that many Docker users interact with Docker.

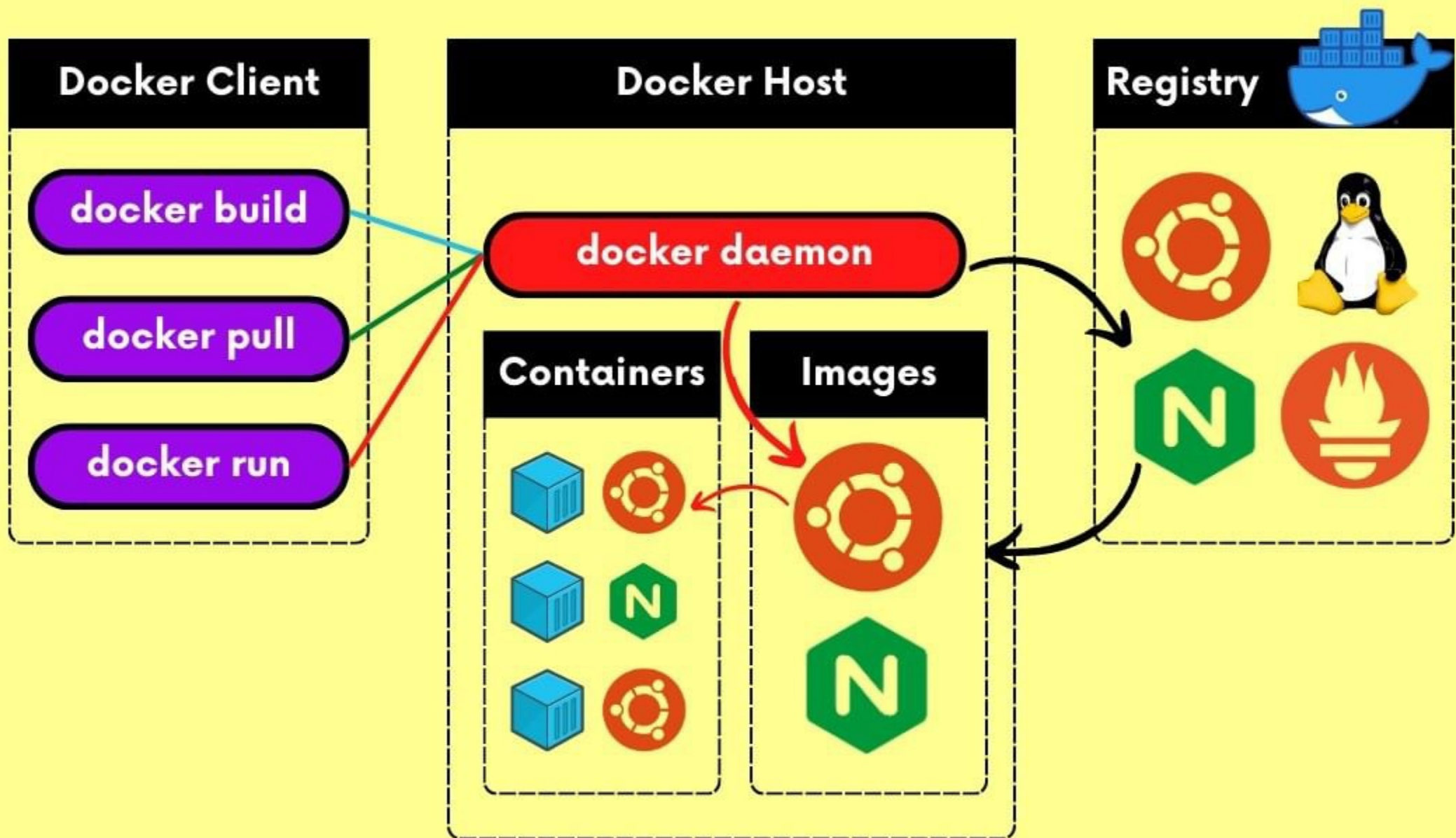


A Docker registry stores Docker images. Docker Hub is a public registry that anyone can use.



Components

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Workflow

- 1. Client issues a build command to the Docker Host.**
- 2. Docker daemon running on Docker Host builds an image based on the client's inputs.**
- 3. Docker daemon either creates a new image or pulls an existing image from the Docker registry.**
- 4. Docker daemon creates an instance of a Docker image.**
- 5. Docker client issues run command. It triggers the creation of a container which then executes.**

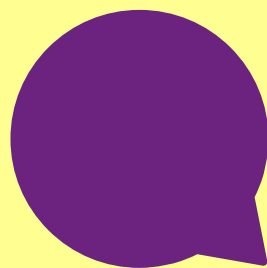
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