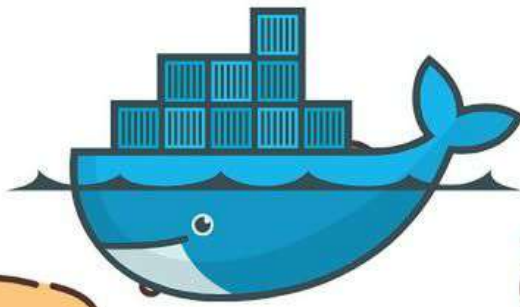


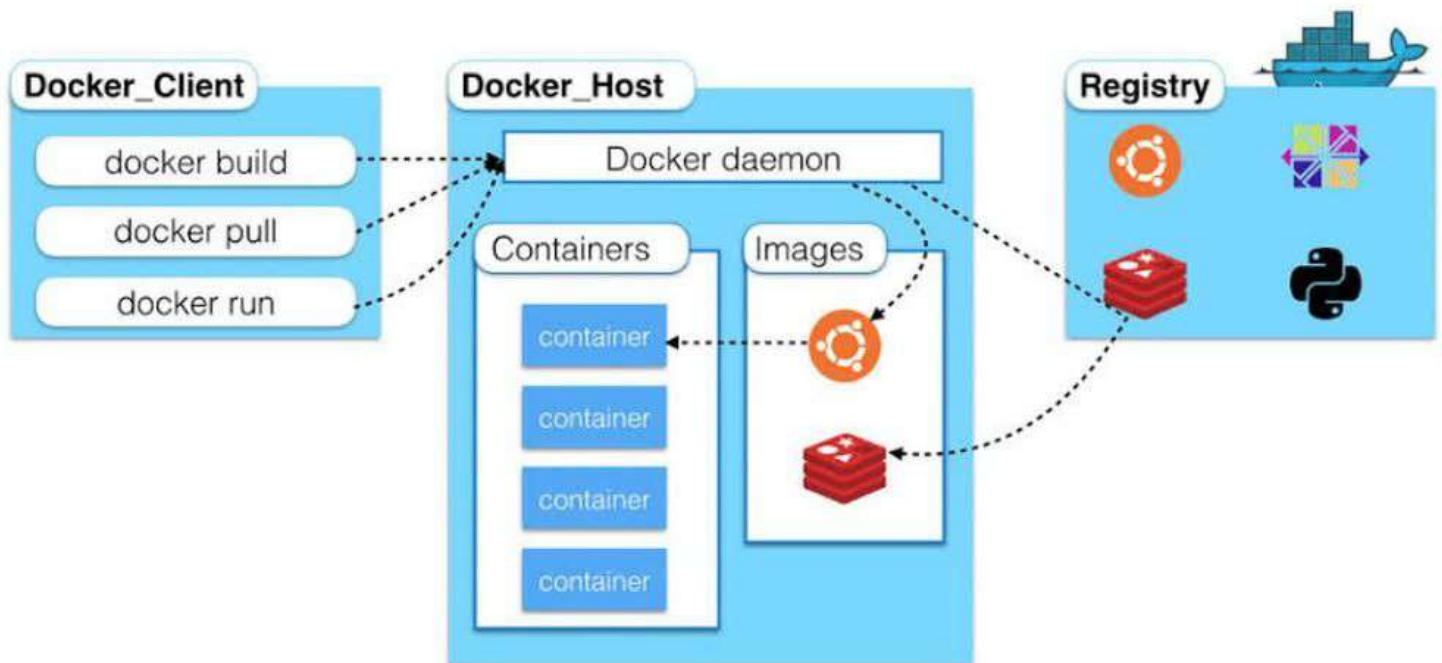


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# DOCKER ARCHITECTURE



## Docker architecture:



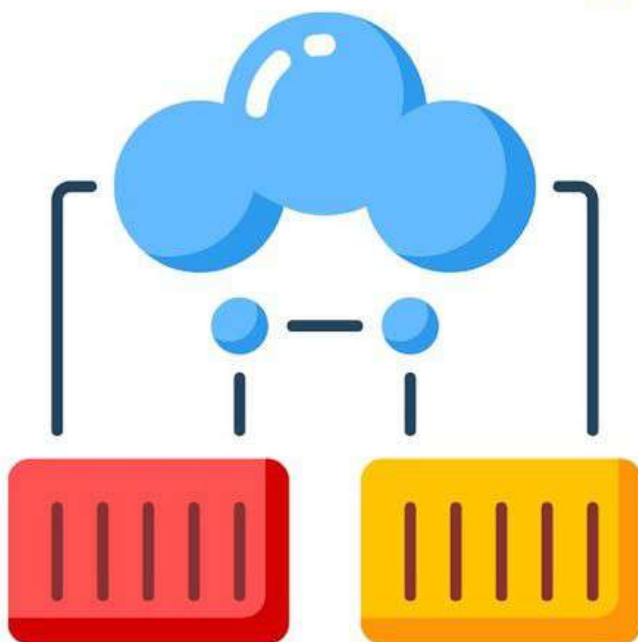
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## What is docker client?

The Docker client is the command line interface for interacting with the underlying Docker Ecosystem.

With the docker client, users can execute their commands to manage their docker containers, images, networks, volumes and other docker objects. It acts as primary interface for developers, administrators to build, deploy and manage the containerized applications efficiently.

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## What is docker host?

A Docker Host is the machine where Docker is installed and running. It provides the environment for Docker Daemon, containers, images, and other Docker components to operate. The host can be a physical server, a virtual machine, or a cloud instance.

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## What is docker deamon?

The Docker Daemon is a background process that manages Docker containers, images, networks, and volumes. It listens for Docker API requests from the Docker client and executes them, such as creating or stopping containers. It also handles communication with Docker registries to pull or push images, and manages the overall lifecycle of Docker objects.



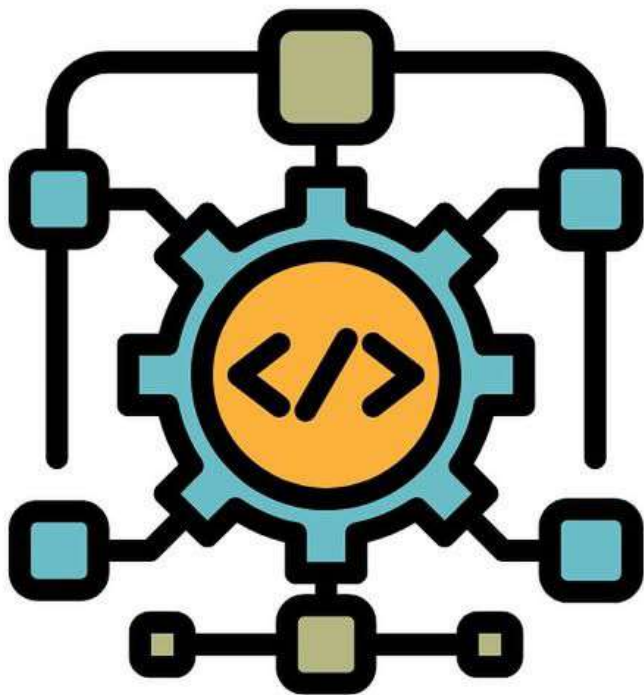
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## **What is docker images?**

Docker Images are lightweight, read-only templates that contain the application and its dependencies. They are used to create Docker containers.

## **What is docker containers?**

Docker Containers are like small, isolated packages that run applications. They include everything the app needs (code, libraries) and run the same way on any system, making them efficient and easy to move between environments.



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## What is docker registry?

A Docker Registry is a storage system for Docker images. It allows users to upload (push) and download (pull) images. Docker Hub is the default public registry, but private registries can also be set up for internal use.

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