

Introduction to Containers and Docker

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Overview

- Container Image
- Container
- Container Registry
- Dockerfile
- Container Data Management (Bind Mounts and Volumes)

Terminology and Definitions

- **Container Image:** A snapshot of an application and its packages.
- **Container:** A running instance of an image.
- **Container Registry:** Service to store and share container images.
- **Docker:** Container Engine that aids in delivering software packages as containers.
- **Dockerfile:** Text document. Contains all the instructions needed to build an image.

Container Data Management

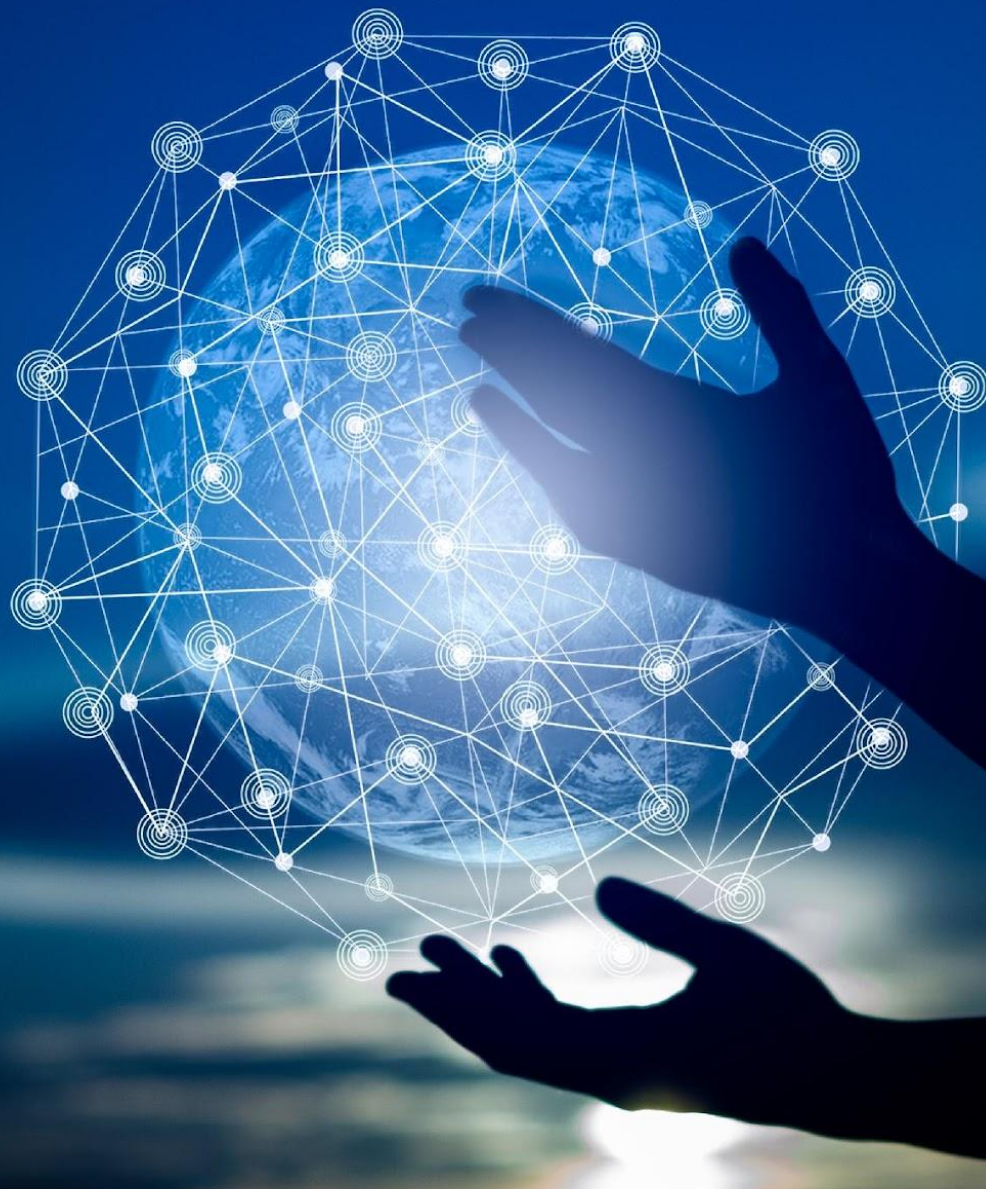


Terminology and Definitions

→ Volumes

→ Bind Mounts

Demo



Demo

- AWS Networking and Compute resources
- Deployment of an HTML application on an EC2 machine
- Containerization of the application
- Redeployment of the application using containers

Demo



Demo

- Deploy the Containerized version of ArangoDB without data persistence.
- Enable data persistence using Docker volumes.
- Build the backend service using a Dockerfile.
- Deploy the containerized version of the backend service.
- Perform API requests to validate the deployment.

Thank You

