

Docker-compose.yml and DockerFile

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Docker Compose YAML (docker-compose.yml)

- **Orchestrates multiple containers:** Defines and configures multiple Docker containers for a multi-container application.
- **Manages relationships:** Sets up dependencies and links between containers.
- **Defines networks:** Creates custom networks for containers to communicate.
- **Volumes:** Mounts host directories into containers for data persistence.
- **Environment variables:** Sets environment variables for containers.
- **Service configuration:** Configures services (containers) with their images, ports, volumes, and dependencies.

Dockerfile

- **Builds a single container image:** Defines the steps to build a Docker image.
- **Base image:** Specifies the base image to start from (e.g., Ubuntu, Alpine).
- **Instructions:** Contains instructions like:
 - FROM: Sets the base image.
 - RUN: Executes commands to install packages or configure the environment.
 - COPY: Copies files from the host to the image.
 - WORKDIR: Sets the working directory inside the image.
 - CMD or ENTRYPOINT: Sets the command to run when the container starts.

Comands for Docker-compose.yml and DockerFile

- **docker-compose up:** Starts and runs the containers defined in the Docker Compose file.
 - **-d:** Runs the containers in detached mode (background).
 - **--build:** Builds the images before starting the containers.
 - **--force-recreate:** Recreates the containers, even if they already exist.
- **docker-compose stop:** Stops the running containers.
- **docker-compose down:** Stops and removes the containers, networks, and volumes.
- **docker-compose rm:** Removes stopped containers.
- **docker-compose ps:** Lists the containers defined in the Compose file.
- **docker exec-it <name> bash:** Now you're in an interactive Bash session where you can develop directly within