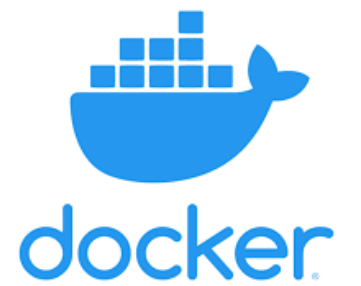
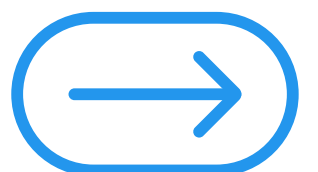


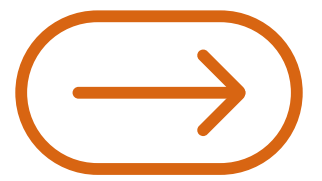
Day 30/50



Docker Images VS Docker Containers

“ Understand what runs, and what it runs from.”





WHAT IS A DOCKER IMAGE?

- **A blueprint for a container**
- **Immutable snapshot of app code + dependencies**
- **Built from a Dockerfile**
- **Can be stored in registries (like Docker Hub)**



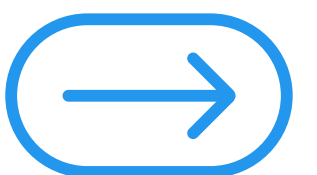
Think of it as:

- **A packaged app waiting to run.**

WHAT IS A DOCKER CONTAINER?

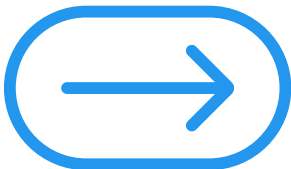
- A running instance of a Docker image
- Uses the image as its base
- Isolated from the host system
- Lightweight and portable

 Think of it as:
The live app created from the image.



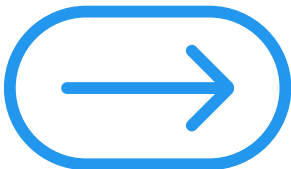
VISUAL ANALOGY

Term	Analogy
Dockerfile	Recipe
Image	Prepared meal (not served)
Container	Served dish (ready to eat)



KEY DIFFERENCES

Feature	Docker Image	Docker Container
State	Static (read-only)	Dynamic (running state)
Execution	Not executable	Executable
Location	Stored in registry	Runs on host machine
Lifecycle	Created once	Starts/stops/restarts



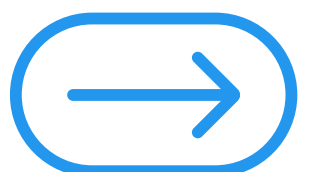
BASIC DOCKER COMMANDS



```
docker build -t my-app .      # Create image
docker images                 # List images
docker run my-app             # Start container
docker ps                    # List containers
docker stop <container-id>    # Stop container
```



**One file to build a reproducible,
portable app.**



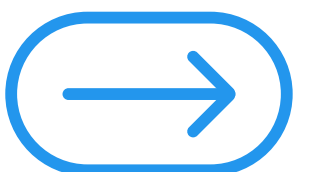
REAL-WORLD USE CASE

 You build a Docker image of your web app

 You run multiple containers from that image in dev, staging, and prod

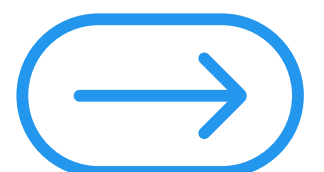
 You update the Dockerfile → rebuild the image → redeploy containers

 Fast, repeatable deployments every time.



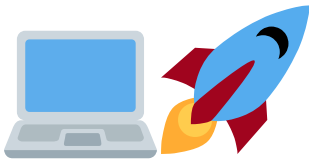
DOCKER MASTERY STARTS WITH UNDERSTANDING IMAGES VS CONTAINERS.

This isn't just terminology – it's how
modern infrastructure runs.



Join the ride as we break down
DevOps, one day at a time!

FOLLOW ME

Let's build, break, and learn –
together. 

RAGHAVENDER CHARI