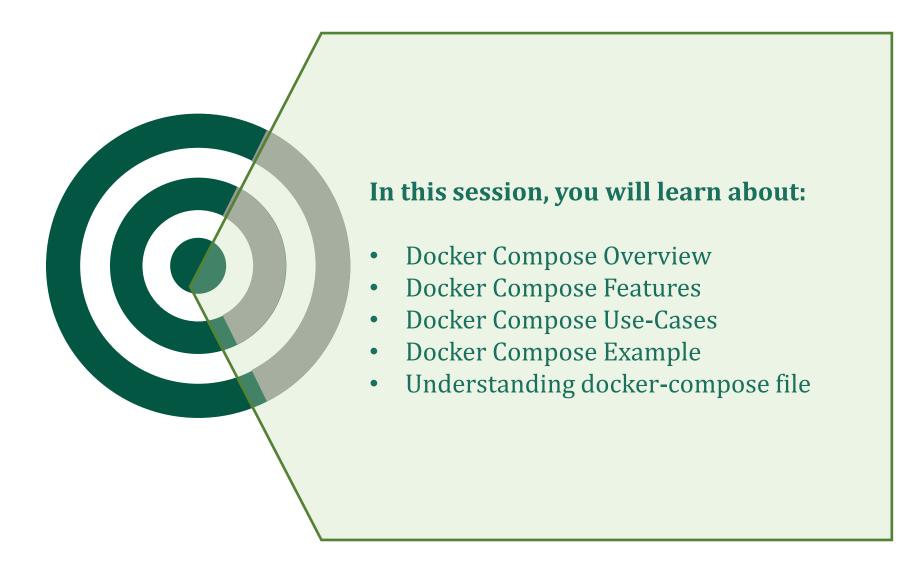
Docker Compose

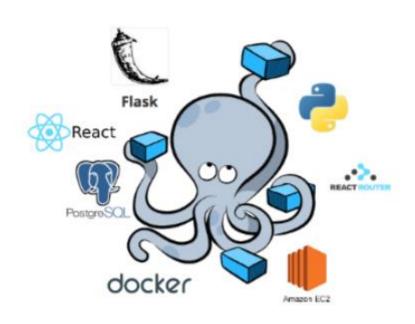
Agenda



Docker Compose Overview

- Compose is a tool for defining and running multi-container Docker applications.
- Uses YAML file to configure application's services.
- Single command creates and starts all the services from the configuration.
- Compose works in all environments: production, staging, development, testing, as well as CI workflows.
- Using Compose is basically a three-step process:
 - Define your app's environment with a **Dockerfile** so it can be reproduced anywhere.
 - Define the services that make up your app in **docker-compose.yml** so they can be run together in an isolated environment.
 - Run docker-compose up and Compose starts and runs your entire app.

Docker Compose Overview



Features

- Multiple isolated environments on a single host
- Preserve volume data when containers are created
- Only recreate containers that have changed
- Variables and moving a composition between environments

Common use cases

- Development environments
- Automated testing environments
- Single host deployments

Example - docker-compose.yml

```
services:
web:
build: .
ports:
    - "5000:5000"
volumes:
    - .:/code
redis:
    image: redis
```

Useful Commands

docker-compose up

docker-compose ps

docker-compose logs

docker-compose scale

Lab- Docker Compose