Building Images with Docker Compose



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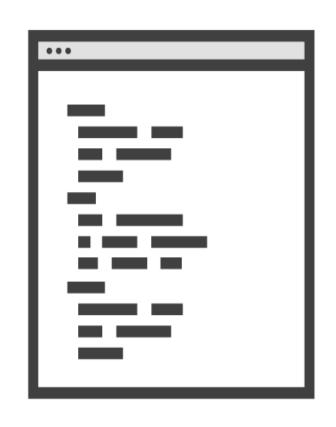
Module Overview



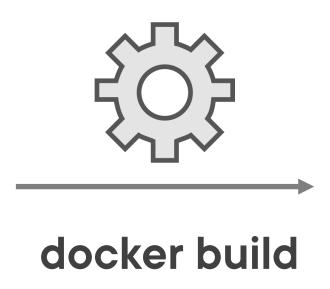
- Build images with Docker Compose
- Add build properties to a service
- Build multiple images
- Push images to a registry

Build Images with Docker Compose

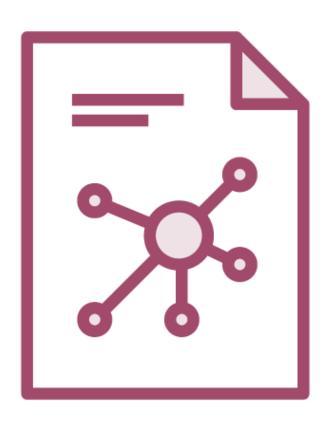
Dockerfile and Images



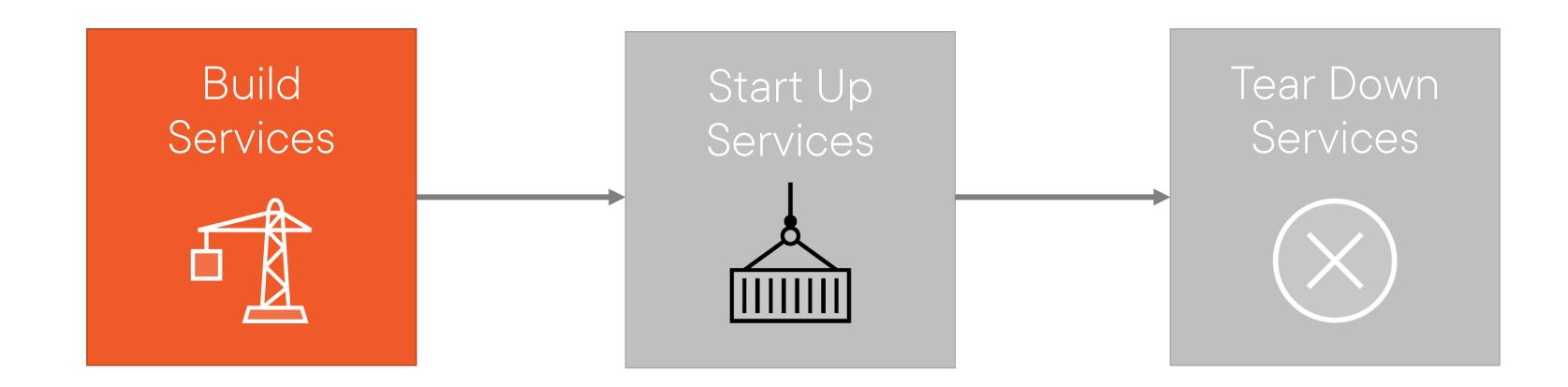
Dockerfile



Docker Image



Docker Compose Workflow



Key Docker Compose Commands



docker-compose build



docker-compose up



docker-compose down

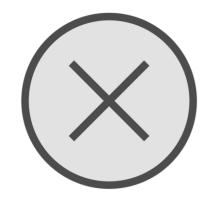
Alternate Docker Compose Commands



docker compose build



docker compose up



docker compose down

Key Docker Compose Build Properties

context args dockerfile image

Using Docker Compose Build Properties

```
services:
node:
  image: nodeapp
  build:
    context: .
    dockerfile: node.dockerfile
    args:
      buildversion: 1
  ports:
    - "3000:3000"
```

◄ Define services

- Name of built image
- Dockerfile will be in same directory as the docker-compose.yml file
- Use node.dockerfile for image build
- Define any args used in the Dockerfile during the build process

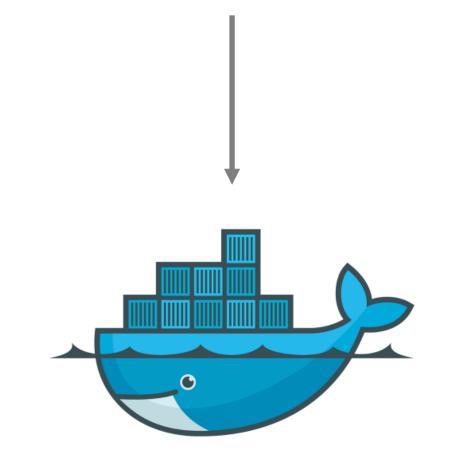
Add Build Properties to a Service

Build Multiple Images

Push Images to a Registry

Deploy an Image to Docker Hub

docker push <user name>/<image name>:<tag>



Docker Hub Registry

Pushing Images with Docker Compose

docker-compose push

Pushing Specific Images with Docker Compose

docker-compose push [service...]

Summary



- Docker Compose can be used to build images
- The *build* property allows you to define the location of the Dockerfile to use
 - context
 - dockerfile
 - args
- Multiple images can be built using Docker Compose
- One or more images can be pushed to a registry using Docker Compose