Building Custom Images with Dockerfile

Module Agenda

Getting Started with Dock
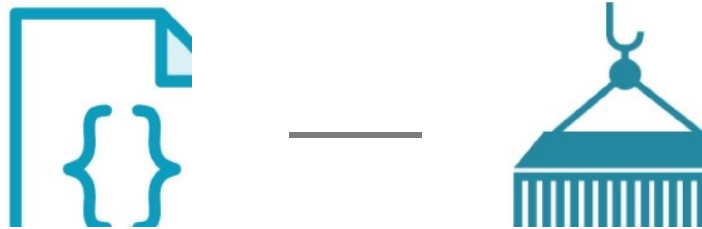
Creating a Custom Docke

Publishing an Image to Docker Hub

Question
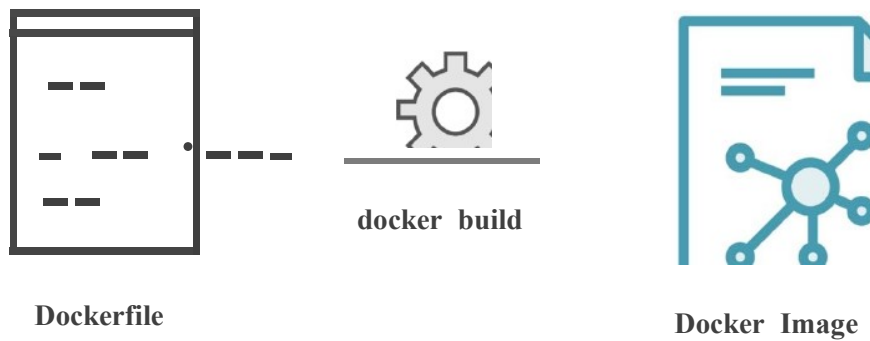
How do you get source code into a container?

Answer

1. Create a container volume that points to the source code.

2. Add your source code into a custom image that is used to create a container.

Getting Started with Dockerfile

Dockerfile and Images

Dockerfile

docker build

Docker Image

Dockerfile Overview

Text file used to build Docker images

Contains build instructions

Instructions create intermediate image that can be cached to speedup future builds

Used with "docker build" command

Key Dockerfile Instructions

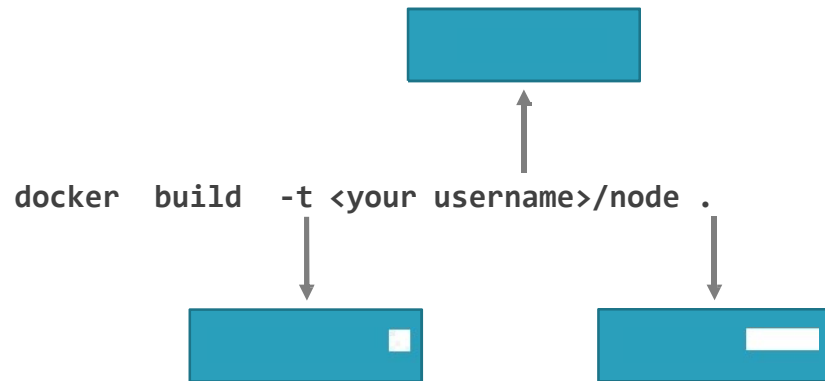|		
FROM	MAINTAINER	RUN
COPY	ENTRYPOINT	WORKDIR
EXPOSE	ENV	VOLUME

Dockerfile Example

```
FROM             node
MAINTAINER       Ben  Xavlin
COPY             .  /var/www
WORKDIR          /var/www
RUN              npm install
EXPOSE           8080
ENTRYPOINT       ["node",  "server.js"]
```

Creating a Custom Node.js Dockerfile

docker build -t <your username>/node .

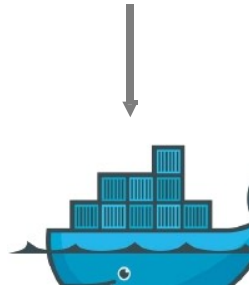Creating a Custom
ASP.NET **Core Dockerfile**

docker build -t <your username>/aspnetcore .

Publishing an Image to Docker Hub

```
docker  push  <your username>/node
```

Summary

Dockerfile is a simple text file with instructions that is used to create an Image

Each Dockerfile starts with a FROM instruction

Custom images are built using: dockerbuild -t <username>/imageName

Images can be pushed to Docker Hub