Building Custom Images with Dockerfile



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Module Agenda

Getting Started with Dockerfile

Creating a Custom DockerFile

Building a Custom Image

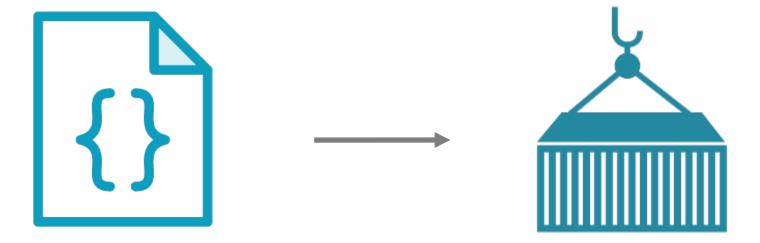
Publishing an Image to Docker Hub



Question



How do you get source code into a container?





Answer



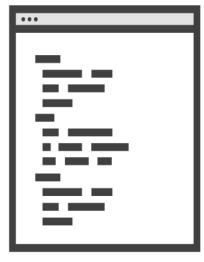
- 1. Create a container volume that points to the source code.
- 2. Add your source code into a custom image that is used to create a container.



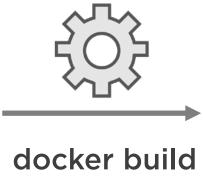
Getting Started with Dockerfile



Dockerfile and Images



Dockerfile



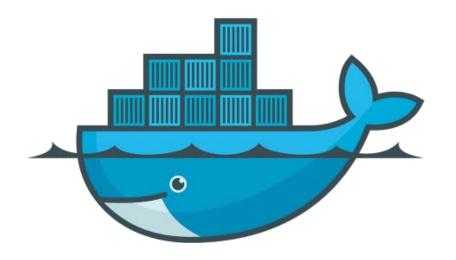
docker ban



Docker Image



Dockerfile Overview



Text file used to build Docker images

Contains build instructions

Instructions create intermediate image that can be cached to speed up future builds

Used with "docker build" command



Key Dockerfile Instructions

FROM MAINTAINER RUN **COPY ENTRYPOINT WORKDIR EXPOSE VOLUME ENV**



Dockerfile Example

FROM node

MAINTAINER Dan Wahlin

COPY . /var/www

WORKDIR /var/www

RUN npm install

EXPOSE 8080

ENTRYPOINT ["node", "server.js"]



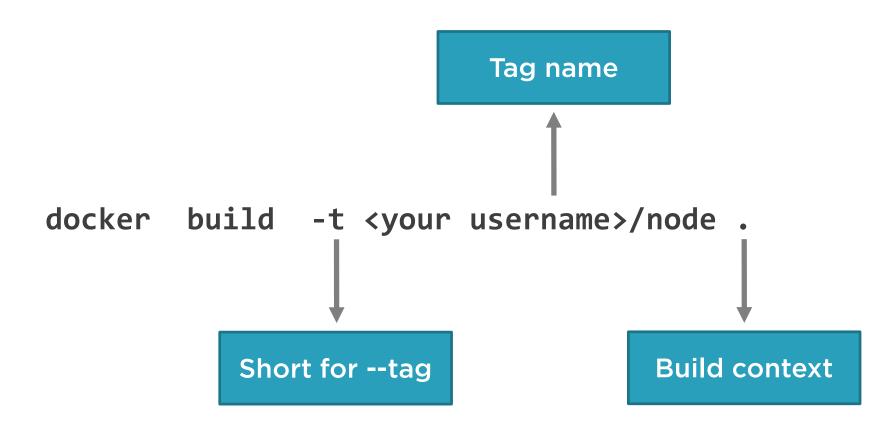
Creating a Custom Node.js Dockerfile



Building a Node.js Image



Building a Custom Image





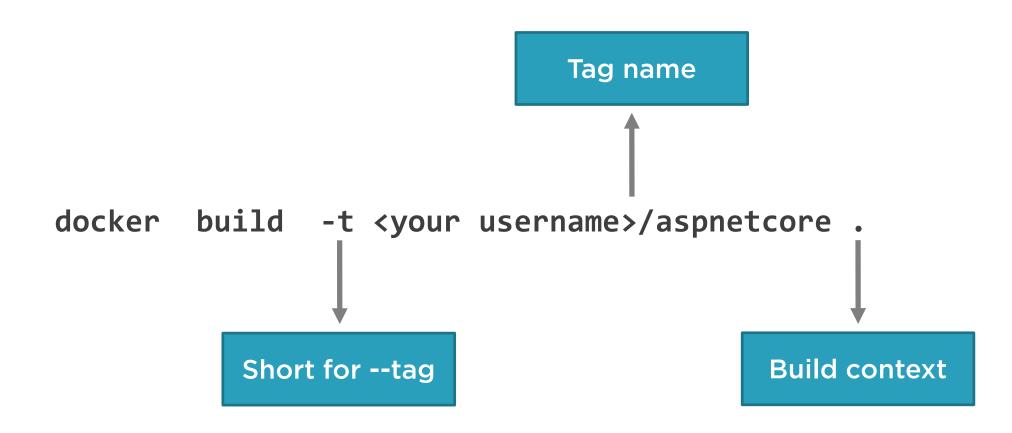
Creating a Custom ASP.NET Core Dockerfile



Building an ASP.NET Core Image



Building a Custom Image



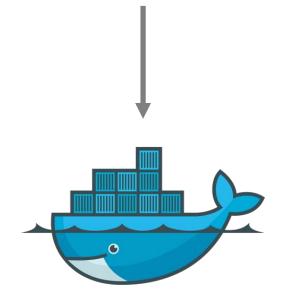


Publishing an Image to Docker Hub



Publishing an Image to Docker Hub

docker push <your username>/node



Docker Registry



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: docker build -t <username>/imageName

Images can be pushed to Docker Hub

