

Docker

for Containerizing Application



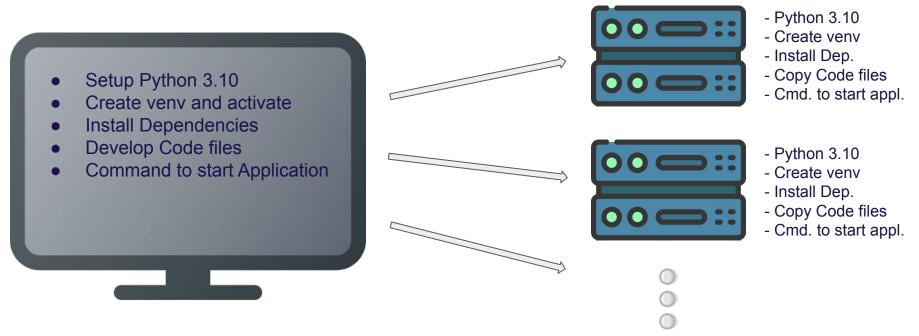
Objectives

- 1. How to Run your Application on a Server? (Challenges in it)
- 2. What is meant by "Containerize your Application"
- 3. How to Containerize Application using "Docker"
- 4. How to create a "Docker Image"?
- 5. Basic Docker Commands
- 6. Demo
 - a. Docker Basics
 - b. Dockerize and push FastAPI Application

How to Run your Application on a Server?



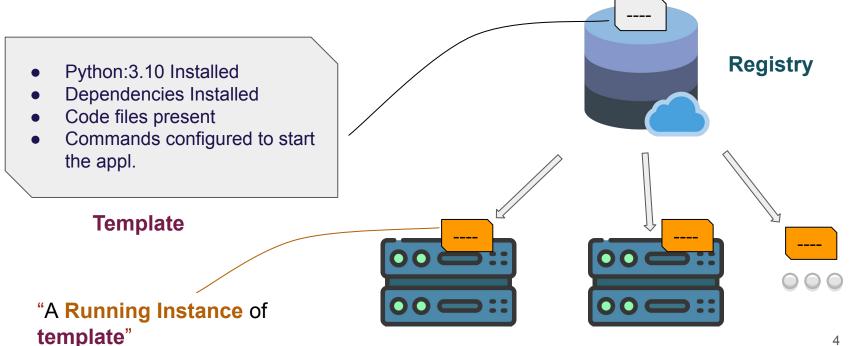
First, Build your application on your system, then take it to server







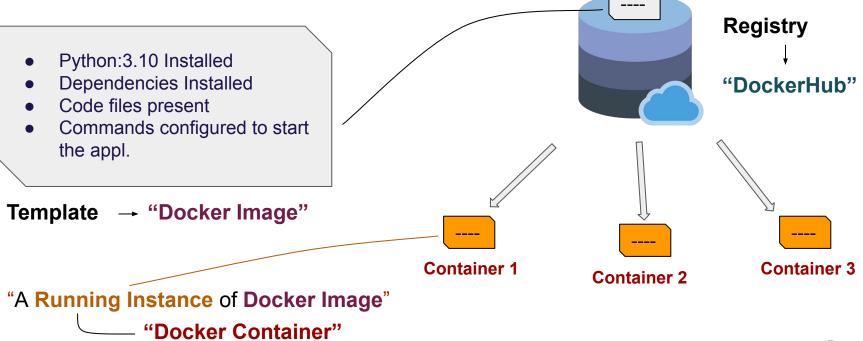
- Once the application is build on your system, create a **template** of it
- Use an instance of that template to run the app anywhere



Containerize Application - "Docker"

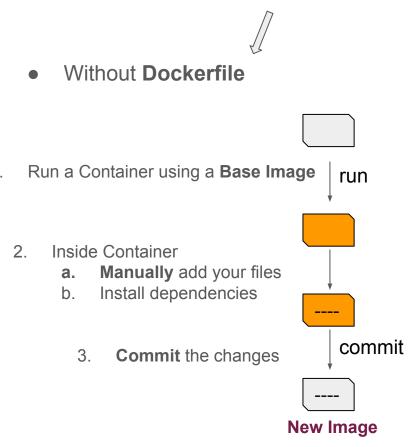


Few terminologies to note:

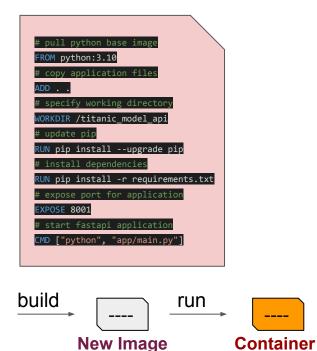




How to create a "Docker Image"?

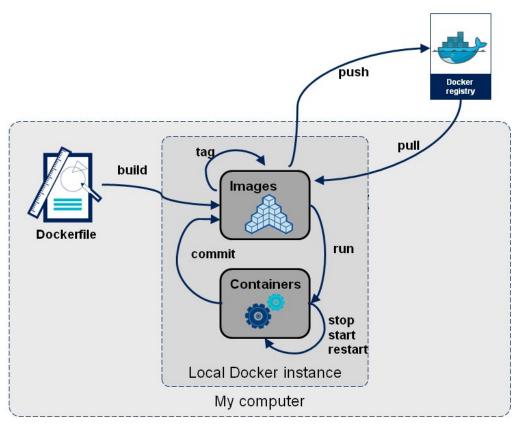


With Dockerfile





Basic Docker Commands



- >> docker build . -t imgName:1 >> docker run --name=myApp imgName:1 >> docker stop myApp >> docker start myApp >> docker restart myApp >> docker commit myApp newImg:1
- >> docker tag newImg:1 username/newImg:2
- >> docker push username/newImg:2
- >> docker pull username/newImg:2



1. Docker Setup and Basics

Demo...



2. Dockerize and push FastAPI Application

Demo...



Thank you!