14.24Jul.Implement Docker based Greeting App nday, July 24, 2023 2:17 PM

JApplication Development fundo. 2 Inside Application 3 Working with Java Application Coxe Core. 4] How to Build & Deploy Application CI/CD 5] Web Server & Database Server. Git hab - VCS DevOps & Agile (CI/CD) 514 Maven Test Web & DB Server's CD-Ansible CI/CD Container - Docker. Ansible Docker

Without Docker(Virtualization) > Greeting Application

- - o Programming Language: Python
 - Web Framework:Dependencies:
- Flask build-essential, python-dev, requirements.txt
 - o Execute Tool:

With Docker

- ➤ Install Docker (root)
 ➤ Revise Docker Architecture
- - Images
 - Docker Command
- Deploy Greeting Application
 Using Command

 - Using Dockerfile
 Using YAML

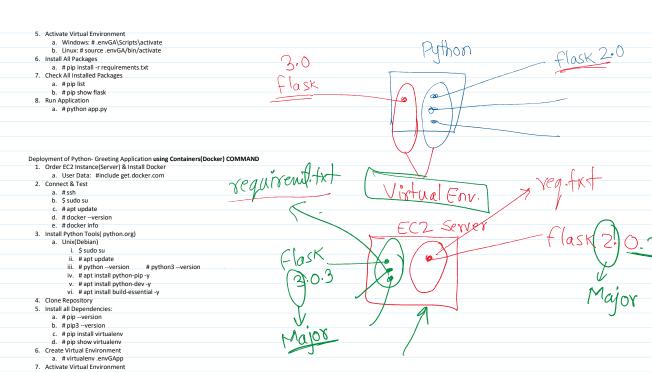
Deployment of Python- Greeting Application using Logical Server(Virtualization) 1. Install Python Tools(python.org)

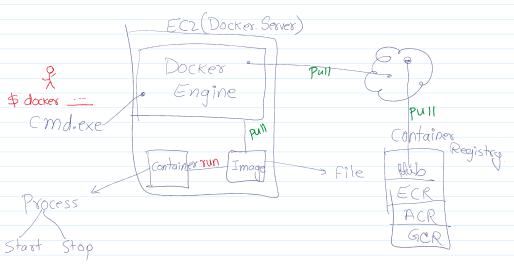
- - a. Windows:
 - i. Wizard b. Unix(Debian)
- b. Unix(Debian)

 i. \$ sudo su
 ii. # apt update
 iii. # python --version # pyti
 iv. # apt install python-pip y
 v. # apt install python-dev y
 vi. # apt install build-essential y

 2. Clone Repository
 3. Install all Dependencies:
 a. # pip --version
 b. # pip3 --version
 c. # pip in install virtualeny
 - # python3 --version

- c. # pip install virtualenv d. # pip show virtualenv 4. Create Virtual Environment a. # virtualenv .envGApp



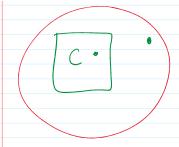


docker pull <imageName>
docker image Is
docker images
docker rmi <image-id>
docker run image-name
docker run image-name COMMAND
docker run -it image-name sh
docker run -it image-name sh
docker ps -a #Display all running Containers
docker ps -a #Display all Stopped Containers
apt install python3-pip-y
apt install python-dev

a. Windows: #.envGA\Scripts\activateb. Linux: # source .envGA/bin/activate

Clone Greeting App
 Install All Packages
 a. # pip install -r requirements.txt
 Check All Installed Packages

a. # pip list
b. # pip show flask
11. Run Application
a. # python app.py



pull Ubuntu:latest

apt update -y

apt install python3 -y

apt install python3-pip -y

From EC2 COPY YOUR APP --> CONTAINER/app
> # mkdir /app
> # cd /app
> # COPY

pip install -r requirements.txt

