TRAINING CONTENT

Cloud Computing

YOUR NEXT DESTINATION

OF SOFTWARE OUTSOURCING

Lecture Outline

- Docker
- Container
- Containers vs Virtual Machines
- Docker Architecture Diagram
- Docker Installation
- Dockerfile
- Push Image into Registry
- Docker Networking
- Docker Compose
- Docker Compose Example
- Kubernetes Overview

Downloading Docker images

docker pull ImageNAME

Uploading the images in Docker Registry

Create one docker hub account or any other platform (like AWS,Azure,GCP)
Create a repository on Docker Hub [ex: dockertrainig]

Build your image locally:
docker build -t username/repository_name .

Then Login through CLI:
docker login

For push execute below command:
docker push bullet08/docker-push

Go to your docker hub account you can see your uploaded image.

Docker Commands

docker
sudo docker search [keyword]
sudo docker search ubuntu
sudo docker pull [image-name]
sudo docker pull ubuntu
sudo docker imagessudo docker images
sudo docker images
sudo docker run hello-world
sudo docker run -it ubuntu
sudo docker ps
sudo docker ps –a
sudo docker ps –l
sudo docker start [container-ID | container-name]
sudo docker stop [container-ID | container-name]
sudo docker rm [container-ID | container-name]

Run container

Run a container using docker Hub Image:
docker run -it nginx
docker run --publish 80:80 nginx

Run Multiple container using docker Hub Image :
docker run --name MyContainer1 <same image id>
docker run --name MyContainer2 <same image id>
docker run --name MyContainer3 <same image id>

Run and Check ip and ping

Run two busybox container:
sudo docker run -dit --name busybox1 busybox /bin/sh
sudo docker run -dit --name busybox2 busybox /bin/sh

Ping Test one : sudo docker exec busybox2 ping www.google.com
Curl Test: docker run --itd --rm my_nginx nginx
Curl: http://IP it will show nginx default page

Find IP above container:
sudo docker inspect ContainerID | grep -i IPAddress

Check running container:
sudo docker ps

Go inside busybox1:
docker attach busybox1
/ # whoami
/ # hostname –I
/ # ping busybox2's Ip

following command will start an Nginx image and listen to port 80 on the host machine:
sudo docker run --rm -d --network host --name my_nginx nginx

Thank You

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