Class 5

Recap:-

Did set up an addressbook application and we did build, test and create an dapplication deployable file

Today Agenda:-

Assignment review

Docker

1990 - 1995

Physical Machines.

10 physical servers

10 operating systems

Just like your laptop

10 laptop

10 windows

10 apple mac osx

10 IBM system z’s

10 operating systems

10 applications

Very expensive

10000$ hardware

Small app

Not profitable-

Vmware --- Commercial Virtualisation:-

vSphere, ESXi

VirtualBox

Vmware workstation

Vmware ESXi

Openstack

Xen hypervisor

Windows Hyper-V

AWS EC2

Google Cloud Compute

Azure Virtual Machines

1. Interoperability of machines.

VirtualBox<<> vmware workstation<--AWS---

Virtualbox--OVA

Workstation-- VMDK

VSphere--OVA

Openstack--ISO, QCOW,

2. Wastage of resouces

Saves you cost because on the same hardware you run more apps in containers.

Allows you to run the same container anywhere in the world

Container:- Logical grouping of files/packages/binaries running as a independent entity on a kernel

Google -- Kubernetes

<https://kubernetes.io/>

<https://linuxcontainers.org/>

<https://www.docker.com/>

<https://mesosphere.com>

Amazon ECS

Set up docker on a VM in the LAB

Have a look at how docker works

Docker hub

How to commit images

How to pull push images

Docker commands

Docker files

Assignment to be shown on monday

Sign up for Digitalocean account

Do this:- <https://www.digitalocean.com/community/tutorials/how-to-create-a-cluster-of-docker-containers-with-docker-swarm-and-digitalocean-on-ubuntu-16-04>

Installing jenkins on windows

<https://wiki.jenkins-ci.org/display/JENKINS/Installing+Jenkins+as+a+Windows+service>

https://hub.docker.com/explore/?page=3