

School of Computer Science Engineering and Technology

Course- B.Tech.
Course Code –CSET232

Year- 2023
Date- 15-02-2023

Type- Specialization Core-II
Course Name- Design of Cloud
Architectural Solution
Semester- 4th
Batch- 2021



A-Type- Lab Assignment/Tutorial # No. (Week 4, Assignment No. 4)

Lab Objective:

Launch a free tier Amazon Linux 2 AMI (HVM), SSD Volume Type – ami-02892a4ea9bfa2192 in any region. Connect it through the putty or any method which you know the perform the below commands on Linux terminal with its detailed explanations. Take the snapshots of all tasks and create a doc/pdf of your enrolment number_lab06 (Ex: E19CSE045_Lab06) and upload the file on LMS.

1. This lab is a starting as experiencing with docker and container part as we decided in the course content. After this Lab, we will be covering all the stages of DevOps on AWS container or any Open-source tool.
2. In this Lab, Students will be getting Hands on Experience by using some basic commands of docker on EC2 Amazon Linux Machine (Free Tier).
3. Here, the lab instructor will explain the details of the commands.
4. It is expected that every student will perform these Commands as per the learning goal.

CO-Mapping:

Exp. No.	Name	CO1	CO2	CO3
04	DevOps Deployment Stage			

Commands/ Rough Cuts for the Lab:

- yum update -y (Linux Version Upgrade)
- yum install docker -y
- which docker
- which chef
- docker -v
- docker --version
- service docker status

School of Computer Science Engineering and Technology

- docker info
- service docker start
- docker images
- docker ps
- docker ps -a
- hub.docker.com (docker image names are available here)
- docker run -it ubuntu /bin/bash
- ls
- cat /etc/os-release
- exit
- docker images
- docker run -it ubuntu /bin/bash
- docker ps
- docker ps -a
- docker images
- docker run -it centos /bin/bash
- docker images
- docker run -i -t centos /bin/bash (-i -t and -it both work fine)
- cat /etc/os-release
- docker ps -a
- docker pull jenkins (Jenkins image on docker hub is not working temporarily so the command wont work)
- docker run -it jenkins /bin/bash (Jenkins image on docker hub is not working temporarily so the command wont work)
- docker pull ubuntu (Ubuntu image is working so the pull command can be explained using that)
- docker images
- docker pull chef/chefdk
- docker images

School of Computer Science Engineering and Technology

- `docker run -it chef/chefdk /bin/bash`
- `which chef`
- `chef -v`
- `exit`
- `docker search ubuntu` (searching images on docker hub)
- `docker run -it --name dok1 ubuntu /bin/bash`
- `docker start <containername>`
- `docker ps`
- `docker attach <containername>` (to go inside a container)
- `docker stop <containername>`
- `docker rm <containername>`

Please note that the commands are the part of your Mid-Term and End-Term Exam