Cloud Computing

Assignment-Week 10
TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10   Total mark: 10 X 1 = 10

QUESTION 1:

Post-copy and Pre-copy migration approaches are followed in :

   a. Live Migration process
   b. Non-live Migration process
   c. Hybrid Migration process
   d. None of these

Correct Answer: a

Detailed Solution: Both Post-copy and Pre-copy are approaches for the live migration process.

QUESTION 2:

Private Docker registry is a service that stores Docker images.

a. True
b. False

Correct Answer: a
Detailed Solution: Private Docker registry is a service that stores Docker images.
Moreover, Docker on the host machine is split into two parts- a daemon with RESTful API and a client who talks with the daemon.

QUESTION 3:
What is(are) the key advantage(s) of Docker?

   a. Facilitating microservices
   b. Modeling networks.
   c. Packaging software
   d.   None of these

Correct Answer: a,b,c

Detailed Solution: Facilitating microservices, packaging software, and modeling networks for initiating multiple isolated containers on a single machine, are the key advantages of Docker.

QUESTION 4:

Which of the following statement is most appropriate about Docker ?

a. Docker is a platform that allows to build and run but not ship apps.

b. Docker is a platform that allows to build and ship but but not to run apps.

c. Docker is a platform that allows to build, ship and, run apps.

d. Docker is a platform that only allows to ship and run but not to build apps.

Correct Answer: c

Detailed Solution: Docker is a platform that allows to build, ship and, run any app anywhere.

QUESTION 5:

A Kubernetes cluster consists of set of worker machines , called _____ .

    a. Pods
    b. Nodes
    c. Control plane
    d. Centers

Correct Answer: b

Detailed Solution: A Kubernetes cluster consists of set of worker machines , called nodes.

QUESTION 6:

Docker builds are more reproducible and and replicable than traditional software building methods.

    a. True
    b. False

Correct Answer: a

Detailed Solution: Docker builds are more reproducible and and replicable than traditional software building methods. This makes implementing CD much easier.

QUESTION 7:

Containers are similar to VMs but they have unrelaxed isolation properties to share the operating system among the applications.

a. True
b. False

Correct Answer: b

Detailed Solution: Containers are similar to VMs but they have relaxed isolation properties to share operating system among the applications. Therefore, containers are considered lightweight.

QUESTION 8:

In Docker utility, _____ is a collection of filesystem layers and some metadata that, if taken together, can be spun up as Docker containers.

a. Operating System
b. Microservice
c. Virtual Machine
d. Image

Correct Answer: d

Detailed Solution: In Docker utility, an image is a collection of filesystem layers and some metadata which if taken together, they can be spun up as Docker containers.

QUESTION 9:

With VM memory size of 1024 GB and the transmission rate to be 16 MB/sec
What is the total migration time ? Choose the closest correct option.

a. 32 hours
b. 18 hours
c. 26 hours
d. 24 hours

Correct Answer: b

Detailed Solution: Total Migration time = VM memory size/ transmission rate =(1024x2^30)/(16x2^20)=65536 secs= 18 hours.

QUESTION 10:

Choose the most appropriate option.

Statement 1: Container is a lightweight virtualization technique.

Statement 2: Container contains the code and all its dependencies.

    a. Only statement 1 is true
    b. Only statement 2 is true
    c. Both statement 1 and 2 are true
    d. Bothe the statements are false

Correct Answer: c

Detailed Solution: Container is a lightweight virtualization technique. Container contains the code and all its dependecies so the applications run quickly.