**Sample Questions:**

1. Which of the following commands will automatically create a volume when a container is started
2. Docker container run –name nginx –volumes=/app nginx
3. Docker container run—name nginx –v myvol:/app nginx
4. Production ready device- mapper configuration for the docker engine.
5. Create a volume group in device mapper
6. Nothing, device –mapper comes
7. Direct-lvm
8. What command can be used to login to the docker repository “docker-registry.example.com” using user “john”?
9. docker login --username=john --server-url docker-registry.example.com
10. docker login --username=john docker-registry.example.com
11. docker login -u john -h docker-registry.example.com
12. None of the above.
13. Which of the following will list all the service processes currently running in a swarm cluster?
14. docker service ps
15. docker swarm service --list
16. docker ps –a
17. docker swarm --service-list
18. C1, c2 in default bridge network, c3,c4 use defined bridge network. Which are all the statement true to communicate each other?
19. C1 and c2 with hostname & c1 and c3 with IP address
20. C1 and c2 with ip address & c2 and c3 with hostname
21. Annie facing some issues in her swarm cluster, After leaving the particular node from swarm, how will you verify that node is successfully removed?
22. docker node ls
23. docker node --show-members
24. docker swarm node show
25. None of the above
26. Created a service( nginx) with replicas=1, A tries to issue command docker service scale nginx=3. B tries to issue command docker service update –replicas 3 nginx.what will be the result. Choose the correct one.
27. Both operation will get fail.
28. A operation will get success but B operation will get fail
29. Both Operation will get success
30. How to build an image with multiple tag syntax
31. Docker build –t name1:tag1 –t name2:tage2 .
32. Docker build –t name1:tag1, name2:tag2 .
33. Docker build –name name1, name2 –tag tag1, tag2 .
34. Which environment variable must be set on the host to instruct docker to ONLY download Docker trusted images?
35. DOCKER\_CONTENT\_TRUST=1
36. DOCKER\_TRUSTED\_CONTENT=1
37. DOCKER\_SIGNED\_IMAGE=1
38. DOCKER\_IMAGE\_TRUST=1
39. There is some issue in running docker. What could be your first step to troubleshoot

Checking logs restarting daemon

1. Configuration path for Storage driver/Logging Driver?

/etc/docker/daemon.json

1. Questions on Soft limit and hard limit

Like memory reservation(SL) and total memory(HL)

Docker can enforce hard memory limits, which allow the container to use no more than a given amount of user or system memory, or soft limits, which allow the container to use as much memory as it needs

1. Containers running on different host and how will you connect with each other through networking concept?

Overlay – using docker network connect

1. Questions on Docker CLI commands. (3 to 4 Question).

Creating service swarm etc

1. Add and copy difference

Add-files, url ,tar etc

Copy-only for files

1. CMD and entrypoint difference

CMD-Override

Entrypoint- overrides only if we use –entrypoint flag

1. In Bridge network, how will you connect the container to outside the world.

Ip forwarding

1. Running the container c1 with v1 volume. How can I run the container c2 with same v1 volume?

--volumes-from

1. Pick the correct namespace which are disable by defaults?

User

1. Namespace

Isolate

1. Control groups

Limits memory cpu etc

1. How can I run the container with interactive mode which is already running state?

Docker exec -it

1. How will you rotate the secured key. Select the correct one?

--rotate flag

1. Which command will restore the ‘drain’ task applied to a node so that it can be scheduled again for services?
2. docker swarm –node=[NODE ID] –set-active
3. docker node update –availabilty active [NODE ID]
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5. which command will rollback the previous version of the service called “myapp”
6. docker service rollback myapp
7. docker service update –rollback myapp
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9. List the command to view the disk space used by deamon
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14. Which command will list the service running in the swarm?
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* Which of the following commands will automatically create a volume when a container is started

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* Which of the following will list all the service processes currently running in a swarm cluster?

1. docker service ps
2. docker swarm service --list
3. docker ps –a
4. docker swarm --service-list

* remove a node from swarm, how will you verify the removal **from same node?**

1. docker node ls
2. docker node --show-members
3. docker swarm node show
4. docker info

* Created a service( nginx) with replicas=1, A tries to issue command docker service scale nginx=3. B tries to issue command docker service update –replicas 3 nginx.what will be the result. Choose the correct one.

1. Both operation will get fail.
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* Which environment variable must be set on the host to instruct docker to ONLY download Docker trusted images?

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* Theoretical difference between limit memory and reserve memory flags

Hard and soft limit

* And one scenario based on limit and reserve flag

Same ques

* You have 4 CPU and 2 Containers, 1st container should get 2 cpu and 2nd should get 2 cpu, achieve this using cpuset flag

Refer https://www.cloudsigma.com/manage-docker-resources-with-cgroups/

* How to feed in secrets file while creating a service ?

--secret flag

* Difference between ADD and COPY

repeated

* When to use ADD and when to use COPY?

repeated

* Whether ENTRYPOINT can be overridden or not ?

Override only using –entrypoint flag

* While running a DTR backup what and all will be included in the backup?

Refer https://docs.docker.com/datacenter/dtr/2.3/guides/admin/backups-and-disaster-recovery/

* Different modes of service discovery (vip & dnsrr )
* CLI command testing the understanding of **docker system events** command
* What default mode a service runs , replicated or global ?
* Which is used for resource isolation, namespace or cgroups or others?
* devicemapper production mode, loop-lvm or direct-lvm ?

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repeat

1. Configuration path for Storage driver/Logging Driver?

repeat

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In Bridge network, how will you connect the container to outside the world. repeat

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Control groups repeat

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2. Which of the following commands will allow you to get the token needed for a ‘worker’ node to join an exixting cluster?

a) docker swarm get-tokens worker

b) docker swarm join-token worker

c) docker swarm token-retrievel –worker

d) All the above

3.Which of the following command will allow you to scale the number of replicas in your swarm to 10?

a) docker service scale [SERVICE NAME]=10

b) docker service replicas=10

c) docker scale swarm --nodes=10

d) docker swarm nodes=10

4. What is the minimum number of managers nodes required for HA setup ?

a) 1 node

b) 2 nodes

c) 3 nodes

d) 4 nodes

5. What is the service that automatically starts serving all UCP components,including the UCP web UI and data stores used by UCP?

1. Ucp-daemon
2. Docker-engine
3. Ucp-agent
4. Docker-ucp

6. Which command-line flag will enable the user to create a new container mount from a specific volume?

1. –volume
2. –volumes-from
3. –mount-from
4. –mounted-in

7. Which one of the following option in LDAP authentication ensures that the only LDAP accounts,that exixt in UCP are those that have had a user login to UCP?

a)post-login User Provisioning

b) User-Defined User Provisioning

c) Auto User Provisioning

d) Just-In-Time User Provisioning

8. Which of the following commands will display information regarding the amount of disk space used by the docker daemon?

a) df –filter docker

b) docker system df

c) docker disk usage

d) docker get diskusage

9. Which command can be use to list the published ports of a container?

docker ps, docker port

10. What are the types of service deployments

Replicated & Global

11. What command can be used to use same image in different host?

Docker save and push to registry

12. How do you prevent image tags from being overwritten on Docker Trusted Registry

immutable

13. Created a service( nginx) with replicas=1, A tries to issue command docker service scale nginx=3. B tries to issue command docker service update –replicas 3 nginx.what will be the result. repeat

14. You have 4 CPU and 2 Containers, 1st container should get 2 cpu and 2nd should get 2 cpu,which command can be used?

a)—cpuset-cpu (1,3 2,4)

b)—cpuset-mems(1,3 2,4) repeat

15. Different modes of service discovery

VIP ,DNSRR

16.Configuration of device mapper in production -directlvm

17.What are the components present in Client bundle ?

A **client bundle** contains a private and public key pair that authorizes your requests in UCP

18.usage of add & copy repeat

19.question on docker secret refer secret docs

20. 3 questions on daemon.json file configuration refer default config file

21.questions on dockerd refer dockerd docs

22.diff b/w reserve memory and memory limit repeat

23.What happen if DTR is in read only mode - only pull images

24. 3 questions on docker commands related to orchestration repeat

25.After performing docker swarm leave cmd how will you check node has left the swarm or not repeat

26.You have created overlay network and 3 container. How will you connect the container to the host? Docker network connect

27. During Backup operation DTR backups which data? repeat

28. Question on Namespace and Controlgroups repeat

•Default disabled namespace-user

•Docker versioning-dockerfile

•Secret update password

•How secret given- inline stdin and file

•Limit resources-control group

•How to set 4 cpu for 2 containers

•Soft limit -memory reservation.hard limit-memory,-- limit memory, limit reservation, memory swap.

•How to transfer images between containers

•How to see service history task service logs

•How to see containers activity container logs

•Production workload- directlvm

•Garbage collection-remove unused image layer.

•Dtr backup-metadata image, configuration

•Add copy difference

•Docker info-system information

•Docker container logs

•Tagging-immutable

•Two different environments ,deploy image how to do configure env -using different config file and docker file or same config file,or separate environments ku env pass in command or config file

•inspect -format Architecture and os details

•restart unless stopped and another flag on restart.

•docker content trust=1

•if  content trust is enabled,your image become official and other options

•where to get repo URL for installation-docker store

•ucp client bundle

•if want to prevent work for manager what we have to give nodestatus==worker or any

•7 managers ,how to share to three container 3-2-2 like this

•quorem 4 managers ,2 healthy-ans

                 5 managers,3 healthy

                 1managers,1 healthy

                 3 managers,2 healthy

•ignore tls verify

•endpoint mode related

•cmd, entry point override

•workdir /a b c -output