

# DCA<sup>Q&As</sup>

Docker Certified Associate (DCA) Exam

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#### QUESTION 1

Which of these swarm manager configurations will cause the cluster to be in a lost quorum state?

- A. 4 managers of which 2 are healthy
- B. 1 manager of which 1 is healthy
- C. 3 managers of which 2 are healthy
- D. 5 managers of which 3 are healthy

Correct Answer: A

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#### QUESTION 2

A server is running low on disk space. What command can be used to check the disk usage of images, containers, and volumes for Docker engine?

- A. `docker system df`
- B. `docker system prune`
- C. `docker system free`
- D. `docker system ps`

Correct Answer: A

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#### QUESTION 3

Which networking drivers allow you to enable multi-host network connectivity between containers?

- A. macvlan, ipvlan, and overlay
- B. bridge, user-defined, host
- C. bridge, macvlan, ipvlan, overlay
- D. host, macvlan, overlay, user-defined

Correct Answer: A

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#### QUESTION 4

Will this command ensure that overlay traffic between service tasks is encrypted?

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Solution: docker network create -d overlay --secure

A. Yes

B. No

Correct Answer: B

Using docker network create -d overlay --secure does not ensure that overlay traffic between service tasks is encrypted. The --secure flag is not a valid option for this command and will cause an error. To ensure that overlay traffic between service tasks is encrypted, you need to use --opt encrypted flag instead. This flag enables IPsec encryption at the level of the vxlan overlay driver.

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### QUESTION 5

A company's security policy specifies that development and production containers must run on separate nodes in a given Swarm cluster. Can this be used to schedule containers to meet the security policy requirements?

Solution: environment variables

A. Yes

B. No

Correct Answer: B

Environment variables cannot be used to schedule containers to meet the security policy requirements. Environment variables are key-value pairs that can be passed to containers when they are created or run. Environment variables can be used to configure the behavior of the containerized application or provide runtime information, such as database credentials, API keys, etc. Environment variables do not affect how containers are scheduled on nodes in a swarm mode cluster.

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### QUESTION 6

Seven managers are in a swarm cluster.

Is this how should they be distributed across three datacenters or availability zones?

Solution: 3-3-1

A. Yes

B. No

Correct Answer: B

This is not how they should be distributed across three datacenters or availability zones, because having one manager in one datacenter or availability zone creates a single point of failure and reduces the fault tolerance of the swarm. According to the official documentation, managers should be distributed evenly across datacenters or availability zones to ensure that the swarm can survive the loss of any one datacenter or availability zone.

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### QUESTION 7

Is this the purpose of Docker Content Trust?

Solution: Enable mutual TLS between the Docker client and server.

A. Yes

B. No

Correct Answer: B

Enabling mutual TLS between the Docker client and server is not the purpose of Docker Content Trust. According to the official documentation, the purpose of Docker Content Trust is to verify the integrity and publisher of all data received from a registry over any channel.

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### QUESTION 8

Your organization has a centralized logging solution, such as Splunk.

Will this configure a Docker container to export container logs to the logging solution?

Solution: docker logs

A. Yes

B. No

Correct Answer: B

This does not configure a Docker container to export container logs to the logging Solution: The docker logs command shows information about the logs of a container. It does not export or send the logs to any external destination. To configure a Docker container to export container logs to the logging solution, you need to use the --log-driver and --log-opt flags when creating or running the container. These flags allow you to specify which logging driver and options to use for the container. For example, to use Splunk as the logging driver, you can use --log-driver splunk and provide the Splunk URL, token, and other options using --log-opt.

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### QUESTION 9

A host machine has four CPUs available and two running containers. The sysadmin would like to assign two CPUs to each container. Which of the following commands achieves this?

A. Set the --cpuset-cpu flag to '1,3' on one container and '2,4' on the other container.

B. Set the --cpuset-cpus flag to '5' on both containers

C. Set the --cpuset-cpus flag of the 'dockerd' process to the value 'even-spread'

D. Set the --cpu-quota flag to '1,3' on one container and '2,4' on the other container.

Correct Answer: B

#### QUESTION 10

What service mode is used to deploy a single task of a service to each node?

- A. replicated
- B. spread
- C. universal
- D. distributed
- E. global

Correct Answer: E

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#### QUESTION 11

Does this command display all the pods in the cluster that are labeled as `env: development`? Solution: `kubectl get pods --all-namespaces -label env=development`

- A. Yes
- B. No

Correct Answer: B

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#### QUESTION 12

When seven managers are in a swarm cluster how would they be distributed across three datacenters or availability zones?

- A. 5-1-1
- B. 3-2-2
- C. 3-3-1
- D. 4-2-1

Correct Answer: B

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#### QUESTION 13

Will a DTR security scan detect this?

Solution: private keys copied to the image

- A. Yes
- B. No

Correct Answer: B

A DTR security scan does not detect private keys copied to the image. A DTR security scan is a feature that scans images for known vulnerabilities in the software packages or dependencies that are installed in the image. A DTR security scan does not check for private keys or other sensitive data that may be accidentally or intentionally copied to the image. To avoid copying private keys to the image, you should use Docker secrets or other secure mechanisms to manage your credentials.

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#### QUESTION 14

After creating a new service named `http`, you notice that the new service is not registering as healthy. How do you view the list of historical tasks for that service by using the command line?

- A. `docker inspect http`
- B. `docker service inspect http`
- C. `docker service ps http`
- D. `docker ps http`

Correct Answer: C

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#### QUESTION 15

Will this Linux kernel facility limit a Docker container's access to host resources, such as CPU or memory? Solution: namespaces

- A. Yes
- B. No

Correct Answer: B

Using namespaces does not limit a Docker container's access to host resources, such as CPU or memory. Namespaces are a Linux kernel feature that provide isolation and virtualization of system resources for processes. They can be used to create isolated environments for containers that have their own view of system resources, such as process IDs, user IDs, network interfaces, etc. However, they do not control how much resources a container can use or access.

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