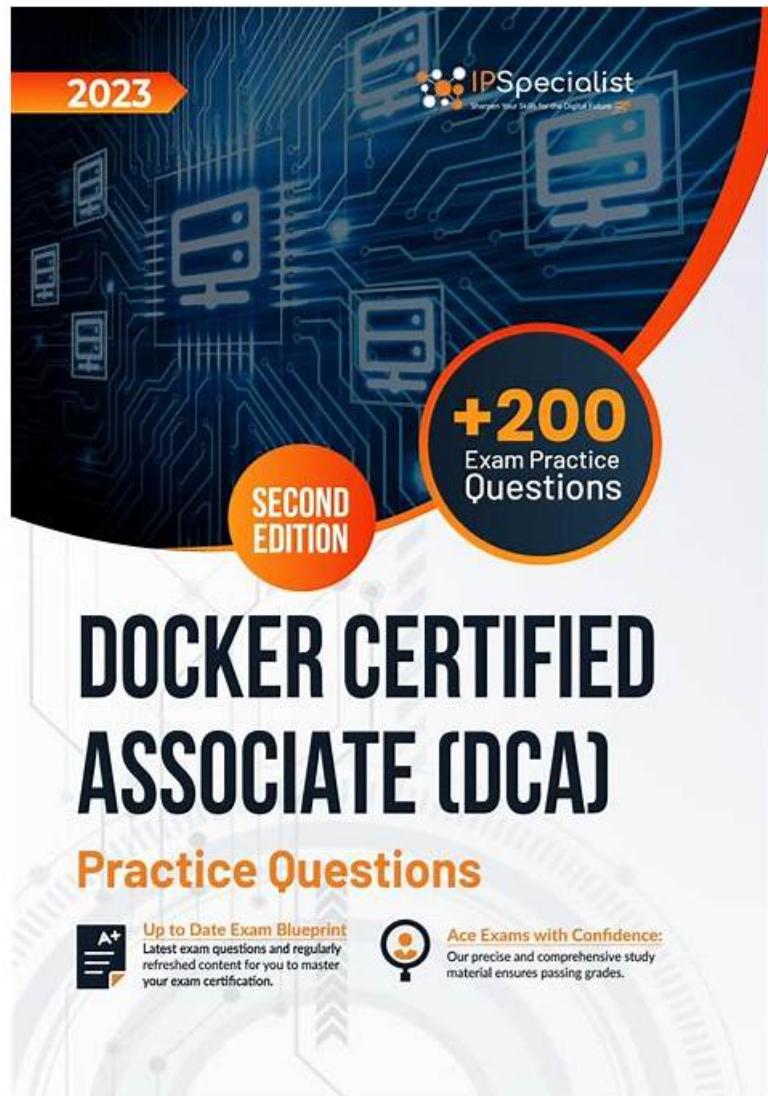


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Docker Certified Associate (DCA) Exam Sample Questions (Q57-Q62):

NEW QUESTION # 57

Will this configuration achieve fault tolerance for managers in a swarm?

Solution: only two managers, one active and one passive.

- A. No
- B. Yes

Answer: A

Explanation:

= The configuration will not achieve fault tolerance for managers in a swarm, because it does not have enough managers to form a quorum. A quorum is the minimum number of managers that must be available to agree on values and maintain the consistent state of the swarm. The quorum is calculated as $(N/2)+1$, where N is the number of managers in the swarm. For example, a swarm with 3 managers has a quorum of 2, and a swarm with 5 managers has a quorum of 3. Having only two managers, one active and one passive, means that the quorum is also 2. Therefore, if one manager fails or becomes unavailable, the swarm will lose the quorum and will not be able to process any requests or schedule any tasks. To achieve fault tolerance, a swarm should have an odd number of managers, at least 3, and no more than 7. This way, the swarm can tolerate the loss of up to $(N-1)/2$ managers and still maintain the quorum and the cluster state. References:

- * Administer and maintain a swarm of Docker Engines
- * Raft consensus in swarm mode
- * How nodes work

NEW QUESTION # 58

Is this a type of Linux kernel namespace that provides container isolation?

Solution: Network

- A. Yes
- B. No

Answer: A

Explanation:

Network is a type of Linux kernel namespace that provides container isolation. Network namespaces isolate the system resources associated with networking, such as network interfaces, IP addresses, routing tables, firewall rules, etc. Each network namespace has its own virtual network stack, and processes in different network namespaces can communicate through virtual network devices or tunnels¹. Network namespaces are used by Docker to create isolated networks for containers, and allow users to customize the network configuration and connectivity of each container². Reference:

network_namespaces(7) - Linux manual page

Docker network overview | Docker Documentation

NEW QUESTION # 59

What is the difference between a resource limit and a resource reservation when scheduling services?

- A. A resource limit and a resource reservation can be used interchangeably.
- B. A resource limit is used to find a host with adequate resources for scheduling a hard limit for your service, while a reservation is hard limit for your service.
- C. A resource limit is hard limit for your service, while a reservation is used to find a host with adequate resources for scheduling. Correct
- D. A resource limit is a soft limit for your service, while a reservation is hard limit and the docker engine will do its best to keep your service at the limit.

Answer: A

NEW QUESTION # 60

An application image runs in multiple environments, with each environment using different certificates and ports.

Is this a way to provision configuration to containers at runtime?

Solution: Provision a Docker config object for each environment.

- A. Yes
- B. No

Answer: A

NEW QUESTION # 61

Can this set of commands identify the published port(s) for a container?

Solution: 'docker network inspect', 'docker port'

- A. Yes
- B. No

Answer: A

Explanation:

Yes, the docker port command can be used to identify the published ports for a running container. It shows the mapping between the host ports and the container's exposed ports. The docker network inspect command can also provide information about the network settings of the container, including port mappings. However, it's important to note that docker network inspect requires the network's name or ID as an argument, not the container's. Therefore, to get the network details of a specific container, you would first need to identify the network the container is connected to. These commands, when used appropriately, can help you identify the published ports for a container.

NEW QUESTION # 62

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