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Docker Certified Associate (DCA) certification exam covers a broad range of topics related to Docker technologies and tools. DCA exam evaluates your understanding of Docker architecture, installation, configuration, and administration. Additionally, it assesses your skills in container orchestration using Docker Swarm and Kubernetes, Docker networking, storage, security, and troubleshooting. The DCA Certification Exam is a practical and hands-on exam that requires you to demonstrate your proficiency in Docker technologies and tools.

Docker Certified Associate (DCA) Exam Sample Questions (Q32-Q37):

NEW QUESTION # 32

Will this command mount the host's '/data1' directory to the ubuntu container in read-only mode?

Solution. 'docker run -v /data:/mydata -mode readonly ubuntu'

- A. No
- B. Yes

Answer: A

Explanation:

Explanation

This command does not mount the host's /data directory to the ubuntu container in read-only mode. The -v or --volume flag mounts a host directory or a named volume to a container. The syntax for mounting a host directory is -v <host-path>:<container-path>[:<options>]. The options can be ro for read-only mode, rw for read-write mode, z or Z for SELinux labels, etc. In this command, -mode readonly is not a valid option and will cause an error. To mount the host's /data directory to the ubuntu container in read-only mode, you need to use -v /data:/mydata:ro instead. References: <https://docs.docker.com/storage/bind-mounts/>, <https://docs.docker.com/engine/reference/run/#volume-shared-file-systems>

NEW QUESTION # 33

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

Explanation:

Explanation

= Provisioning a Docker config object for each environment is a way to provision configuration to containers at runtime. Docker configs allow services to adapt their behaviour without the need to rebuild a Docker image.

Services can only access configs when explicitly granted by a configs attribute within the services top-level element. As with volumes, configs are mounted as files into a service's container's filesystem¹. Docker configs are supported on both Linux and Windows services². References: Docker Documentation, Configs top-level element

NEW QUESTION # 34

In the context of a swarm mode cluster, does this describe a node?

Solution. an instance of the Docker CLI connected to the swarm

- A. No
- B. Yes

Answer: A

Explanation:

Explanation

An instance of the Docker CLI connected to the swarm does not describe a node in the context of a swarm mode cluster. A node is a physical or virtual machine that runs the Docker Engine and participates in the swarm. A node can have one of two roles: manager or worker. Manager nodes maintain the cluster state and orchestrate tasks. Worker nodes execute tasks assigned by manager nodes. An instance of the Docker CLI connected to the swarm is a client that can interact with the swarm using commands such as docker service, docker node, docker stack, etc. A client can connect to any manager node in the swarm using the --host or -H flag. References: <https://docs.docker.com/engine/swarm/key-concepts/#nodes-and-services>, <https://docs.docker.com/engine/swarm/swarm-tutorial/#use-docker-for-mac-or-docker-for-windows>

NEW QUESTION # 35

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: node taints

- A. Yes
- B. No

Answer: A

Explanation:

Node taints are a way to mark nodes in a Swarm cluster so that they can repel or attract certain containers based on their tolerations. By applying node taints to the nodes that are designated for development or production, the company can ensure that only the containers that have the matching tolerations can be scheduled on those nodes. This way, the security policy requirements can be met. Node taints are expressed as key=value:effect, where the effect can be NoSchedule, PreferNoSchedule, or NoExecute.

For example, to taint a node for development only, one can run:

```
kubectl taint nodes node1 env=dev:NoSchedule
```

This means that no container will be able to schedule onto node1 unless it has a toleration for the taint env=dev:NoSchedule. To add a toleration to a container, one can specify it in the PodSpec. For example:

tolerations:

```
- key: "env"
```

```
operator: "Equal"
```

```
value: "dev"
```

```
effect: "NoSchedule"
```

This toleration matches the taint on node1 and allows the container to be scheduled on it. Reference:

Taints and Tolerations | Kubernetes

Update the taints on one or more nodes in Kubernetes

A Complete Guide to Kubernetes Taints & Tolerations

NEW QUESTION # 36

A user's attempts to set the system time from inside a Docker container are unsuccessful.

Could this be blocking this operation?

Solution: SELinux

- A. No
- B. Yes

Answer: A

Explanation:

Explanation

SELinux is not blocking this operation. SELinux is a security module that enforces mandatory access control policies on Linux systems. SELinux can restrict the actions of processes and users based on their security contexts and labels. However, SELinux does not prevent a user from setting the system time from inside a Docker container. The reason why a user's attempts to set the system time from inside a Docker container are unsuccessful is because Docker containers share the same kernel and clock as the host by default. Therefore, changing the system time inside a container requires privileged access to the host kernel, which is not allowed by default for security reasons. To allow a user to set the system time from inside a Docker container, you need to run the container with the --privileged flag or the --cap-add SYS_TIME flag. References:

<https://docs.docker.com/engine/security/selinux/>,

<https://docs.docker.com/engine/reference/run/#runtime-privilege-and-linux-capabilities>

NEW QUESTION # 37

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