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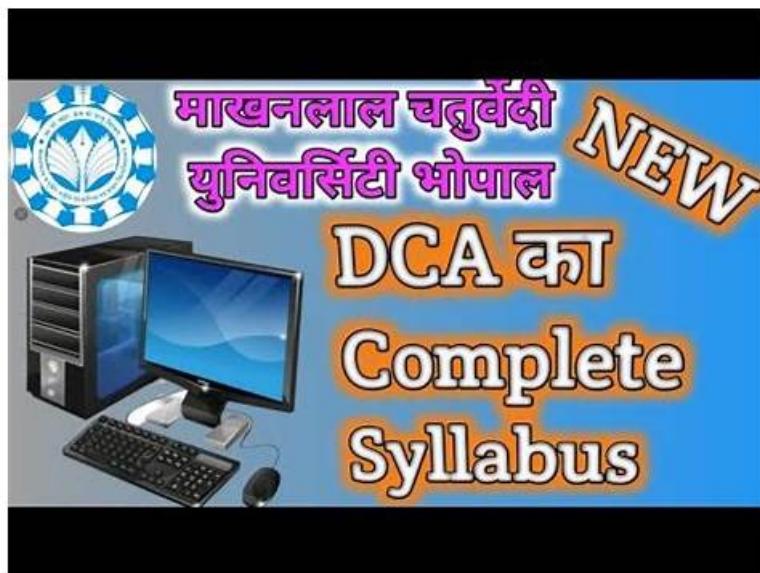
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Docker DCA Exam Syllabus Topics:

Topic	Details
Topic 1	• Installation and Configuration (15%): This section of the exam evaluates the capabilities of cloud infrastructure administrators and addresses Docker engine installation, setup, and configuration across multiple platforms. It includes tasks such as logging driver selection, swarm initialization, error resolution, and user access management. Candidates must demonstrate knowledge of system prerequisites, namespaces, cgroups, and the implementation of secure client-server certificate authentication. It also requires consistent deployment practices for Docker UCP and DTR environments, including backup scheduling and HA configurations.
Topic 2	• Domain 6: Storage and Volumes: This domain measures the practical storage configuration knowledge of DevOps engineers. It includes selecting appropriate storage drivers based on the OS, configuring devicemapper, and comparing object and block storage. Candidates must understand image layering and its implications on the file system, handle volume configuration for persistent storage, and perform system cleanup of unused images. Cross-node storage usage and differentiating roles between UCP workers and managers are also addressed, along with managing external certificates within UCP and DTR environments.
Topic 3	• Image Creation, Management, and Registry: This domain assesses cloud infrastructure administrators and focuses on building, managing, and optimizing Docker images. It involves working with Dockerfiles, tagging, and pruning images, as well as understanding image layering and registry usage. Candidates must demonstrate image creation from files, modifications to reduce layers, and the ability to push, pull, and sign images. Registry configuration and management are also included, with tasks involving authentication, search, deletion, and secure access to stored images.

Topic 4	• Domain 5: Security: This part of the exam focuses on the knowledge of cloud infrastructure administrators and addresses Docker security configurations and practices. It covers image signing, security scans, Docker Content Trust, and default engine protections. Candidates must configure RBAC settings within UCP, integrate identity systems such as LDAP or Active Directory, and manage UCP client bundles. Understanding MTLS, swarm security defaults, and UCP • DTR certificate usage is essential to meet the requirements of this domain.

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Docker Certified Associate (DCA) Exam Sample Questions (Q77-Q82):

NEW QUESTION # 77
The Kubernetes yaml shown below describes a networkPolicy.

Will the networkPolicy BLOCK this traffic?
Solution: a request issued from a pod bearing the tier: backend label, to a pod bearing the tier: frontend label

- A. Yes
- B. No

Answer: A

Explanation:
Explanation
The networkPolicy will block this traffic because it only allows ingress traffic from pods that have the tier: api label. Pods that have the tier: backend label do not match this selector and are therefore denied access to pods that have the tier: frontend label.
References:
https://kubernetes.io/docs/concepts/services-networking/network-policies/#the-networkpolicy-resource

NEW QUESTION # 78
The Kubernetes yaml shown below describes a clusterIP service.

```yaml
apiVersion: v1
kind: Service
metadata:
  name: dca
spec:
  type: clusterIP
  selector:
    app: nginx
  ports:
  - port: 8080
    targetPort: 80
  - port: 4443
    targetPort: 443
...
```

Is this a correct statement about how this service routes requests?

Solution: Traffic sent to the IP of this service on port 80 will be routed to port 8080 in a random pod with the label app: nginx.

- A. No
- B. Yes

Answer: A

Explanation:

The statement is not entirely correct. In Kubernetes, a service of typeClusterIProutes traffic sent to its IP address to the pods selected by its label selector1.However, the port to which the traffic is routed in the pod is determined by thetargetPortspecified in the service definition1.IftargetPortis not specified, it defaults to being the same as theportfield1. In the providedYAML snippet, there is notargetPortspecified for port 80, so we cannot confirm that the traffic will be routed to port 8080 in the pod.Therefore, without additional information about the pod configuration, we cannot verify the provided solution statement1.

NEW QUESTION # 79

You configure a local Docker engine to enforce content trust by setting the environment variable DOCKER_CONTENT_TRUST=1.
If myorg/myimage: 1.0 is unsigned, does Docker block this command?
Solution: docker image import <tarball> myorg/myimage:1.0

- A. Yes
- B. No

Answer: A

Explanation:

Docker Content Trust (DCT) is a feature that allows users to verify the integrity and publisher of container images they pull or deploy from a registry server, signed on a Notary server1. DCT is enabled by setting the environment variable DOCKER_CONTENT_TRUST=1 on the Docker client. When DCT is enabled, the Docker client will only pull, run, or build images that have valid signatures for a specific tag2. However, DCT does not apply to the docker image import command, which allows users to import an image or a tarball with a repository and tag from a file or STDIN3. Therefore, if myorg/myimage:1.0 is unsigned, Docker will not block the docker image import <tarball> myorg/myimage:1.0 command, even if DCT is enabled. This is because the docker image import command does not interact with a registry or a Notary server, and thus does not perform any signature verification. However, this also means that the imported image will not have any trust data associated with it, and it will not be possible to push it to a registry with DCT enabled, unless it is signed with a valid key. References:
* Content trust in Docker
* Automation with content trust
* [docker image import]
* [Content trust and image tags]

NEW QUESTION # 80

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

Solution: an instance of the Docker engine participating in the swarm

- A. Yes
- B. No

Answer: A

Explanation:
In the context of a swarm mode cluster, an instance of the Docker engine participating in the swarm is indeed a node1. A node can be either a manager or a worker, depending on the role assigned by the swarm manager2. A manager node handles the orchestration and management of the swarm, while a worker node executes the tasks assigned by the manager2. A node can join or leave a swarm at any time, and the swarm manager will reconcile the desired state of the cluster accordingly1. Reference:
1: Swarm mode overview | Docker Docs
2: Manage nodes in a swarm | Docker Docs

NEW QUESTION # 81

Are these conditions sufficient for Kubernetes to dynamically provision a persistentVolume, assuming there are no limitations on the amount and type of available external storage?
Solution: A default storageClass is specified, and subsequently a persistentVolumeClaim is created.

- A. Yes
- B. No

Answer: A

Explanation:
Explanation
These conditions are sufficient for Kubernetes to dynamically provision a persistentVolume, because a default storageClass provides the information needed to create a persistentVolume that matches the persistentVolumeClaim. According to the official documentation, if no storageClass is specified or requested, then the default one is used.
References: https://kubernetes.io/docs/concepts/storage/dynamic-provisioning/#defaulting-behavior

NEW QUESTION # 82

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