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Docker Certified Associate (DCA) certification exam is intended for IT professionals who are interested in building, managing, and deploying Docker applications. DCA Exam is ideal for developers, system administrators, DevOps engineers, and other IT professionals who want to demonstrate their expertise in Docker technologies. Docker Certified Associate (DCA) Exam certification exam is vendor-neutral, which means that it is not tied to any specific Docker product or service. Instead, it focuses on the core concepts and principles of Docker technologies, making it a valuable certification for anyone interested in learning Docker.

Docker Certified Associate (DCA) Exam Sample Questions (Q96-Q101):

NEW QUESTION # 96

The Kubernetes yaml shown below describes a clusterIP service.

```
...
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 any pod with the label app: nginx on port 8080 will be forwarded to port 80 in that pod.

- A. Yes
- B. No

Answer: B

Explanation:

The statement is incorrect because it does not mention the service name or the clusterIP address. Traffic sent to the IP of any pod with the label app: nginx on port 8080 will not be forwarded to port 80 in that pod, unless the traffic is coming from another pod within the same cluster that knows the pod IP. To access the service from outside the cluster, the traffic must be sent to the clusterIP address of the service, which is assigned by Kubernetes, and the port 8080 of the service, which is defined in the yaml file. The service will then forward the traffic to one of the selected pods on port 80.

To summarize, the correct statement should be:

Traffic sent to the clusterIP address of the service dca on port 8080 will be forwarded to port 80 in one of the pods with the label app: nginx.

NEW QUESTION # 97

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

Answer: B

Explanation:

Explanation

= The command kubectl get pods --all-namespaces -label env=development is not valid because it has a syntax error. The correct syntax for listing pods with a specific label is kubectl get pods --all-namespaces

--selector label=value or kubectl get pods --all-namespaces -l label=value. The error in the command is:

* The option flag for specifying the label selector is --selector or -l, not -label. For example, -label env=development should be --selector env=development or -l env=development.

The correct command for listing all the pods in the cluster that are labeled as env: development is:

kubectl get pods --all-namespaces --selector env=development

This command will display the name, status, restarts, and age of the pods that have the label env: development in all namespaces.

References: : Labels | Kube by Example : kubectl Cheat Sheet | Kubernetes

NEW QUESTION # 98

Does this describe the role of Control Groups (cgroups) when used with a Docker container?

Solution: role-based access control to clustered resources

- A. Yes
- B. No

Answer: B

Explanation:

= The role of Control Groups (cgroups) when used with a Docker container is not role-based access control to clustered resources. Cgroups are a feature of the Linux kernel that allow you to limit, manage, and isolate resource usage of collections of processes running on a system¹. Resources are CPU time, system memory, network bandwidth, or combinations of these resources, and so on². Cgroups allow Docker Engine to share available hardware resources to containers and optionally enforce limits and constraints³. Cgroups can help avoid "noisy neighbor" issues and improve the performance and security of containers⁴. Role-based access control (RBAC) is a different concept that refers to controlling access to resources based on the roles of individual users within an organization⁵.

Lab: Control Groups (cgroups) | dockerlabs : Container security fundamentals part 4: Cgroups | Datadog Security Labs : Docker Namespace Vs Cgroup. Namespace and Cgroup | by MrDevSecOps - Medium : Role-based access control - Wikipedia : Control groups (cgroups) - Learn Docker - Fundamentals of Docker 18.x ...

NEW QUESTION # 99

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. Yes
- B. No

Answer: B

Explanation:

Explanation

The command `docker run -v /data:/mydata -mode readonly ubuntu` will not mount the host's /data1 directory to the ubuntu container in read-only mode. The command has several errors that prevent it from working correctly. First, the host directory should be /data1 instead of /data, as specified in the question. Second, the option flag should be --mode instead of -mode, and it should be placed before the image name. Third, the mode value should be ro instead of readonly, as per the Docker documentation¹. The correct command should be `docker run -v /data1:/mydata --mode ro ubuntu`, which will mount the host's /data1 directory as a read-only volume at /mydata inside the container¹. References:

* docker run | Docker Docs

NEW QUESTION # 100

Two development teams in your organization use Kubernetes and want to deploy their applications while ensuring that Kubernetes-specific resources, such as secrets, are grouped together for each application.

Is this a way to accomplish this?

Solution: Add all the resources to the default namespace.

- A. Yes
- B. No

Answer: B

Explanation:

Explanation

This is not a way to accomplish this, because adding all the resources to the default namespace is not a good practice for isolating applications in Kubernetes. According to the official documentation, namespaces are used to group resources into logical units that correspond to different projects, teams, or environments. Using namespaces can help avoid naming collisions and enforce resource quotas and access policies.

References: <https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/>

NEW QUESTION # 101

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