Mirantis DCA

Mirantis DCA Certification Questions & Answers

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DCA

Docker Certified Associate

55 Questions Exam – 70% Cut Score – Duration of 90 minutes

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Discover More about the DCA Certification

Are you interested in passing the Mirantis DCA exam? First discover, who benefits from the DCA certification. The DCA is suitable for a candidate if he wants to learn about DevOps. Passing the DCA exam earns you the Docker Certified Associate title.

While preparing for the DCA exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The DCA PDF contains some of the most valuable preparation tips and the details and instant access to useful **DCA study materials just at one click.**

Mirantis DCA DCA Certification Details:

Exam Name	Docker Certified Associate (DCA)
Exam Code	DCA
Exam Price	$195 USD
Duration	90 minutes
Number of Questions	55
Passing Score	Pass / Fail (Approx 70%)
Recommended Training / Books	**Study Guide**
Schedule Exam	**Docker**
Sample Questions	**Mirantis DCA Sample Questions**
Recommended Practice	**Docker Certified Associate Practice Test**

DCA Syllabus:

Section	Objectives	Weight
Orchestration	- Complete the setup of a swarm mode cluster, with managers and worker nodes - Describe and demonstrate how to extend the instructions to run individual containers into running services under swarm. - Describe the importance of quorum in a swarm cluster. - Describe the difference between running a container and running a service. - Interpret the output of “docker inspect” commands. - Convert an application deployment into a stack file using a YAML compose file with "docker stack	**25%**

Section	Objectives	Weight
	deploy" - Manipulate a running stack of services. - Describe and demonstrate orchestration activities. - Increase the number of replicas. - Add networks, publish ports. - Mount volumes. - Describe and demonstrate how to run replicated and global services. - Apply node labels to demonstrate placement of tasks. - Describe and demonstrate how to use templates with “docker service create”. - Identify the steps needed to troubleshoot a service not deploying. - Describe how a Dockerized application communicates with legacy systems. - Describe how to deploy containerized workloads as Kubernetes pods and deployments. - Describe how to provide configuration to Kubernetes pods using configMaps and secrets.	
Image Creation, Management, and Registry	- Describe the use of Dockerfile. - Describe options, such as add, copy, volumes, expose, entry point. - Identify and display the main parts of a Dockerfile. - Describe and demonstrate how to create an efficient image via a Dockerfile. - Describe and demonstrate how to use CLI commands to manage images, such as list, delete, prune, rmi. - Describe and demonstrate how to inspect images and report specific attributes using filter and format. - Describe and demonstrate how to tag an image. - Describe and demonstrate how to apply a file to create a Docker image. - Describe and demonstrate how to display layers of a Docker image - Describe and demonstrate how to modify an image to a single layer. - Describe and demonstrate registry functions. - Deploy a registry. - Log into a registry. - Utilize search in a registry. - Push an image to a registry. - Sign an image in a registry. - Pull and delete images from a registry.	**20%**
Installation and Configuration	- Describe sizing requirements for installation. - Describe and demonstrate the setup of repo, selection of a storage driver, and installation of	**15%**

Section	Objectives	Weight
	the Docker engine on multiple platforms. - Describe and demonstrate configuration of logging drivers (splunk, journald, etc.). - Describe and demonstrate how to set up swarm, configure managers, add nodes, and setup the backup schedule. - Describe and demonstrate how to create and manage user and teams. - Describe and demonstrate how to configure the Docker daemon to start on boot. - Describe and demonstrate how to use certificate-based client-server authentication to ensure a Docker daemon has the rights to access images on a registry. - Describe the use of namespaces, cgroups, and certificate configuration. - Describe and interpret errors to troubleshoot installation issues without assistance. - Describe and demonstrate the steps to deploy the Docker engine, UCP, and DTR on AWS and on-premises in an HA configuration. - Describe and demonstrate how to configure backups for UCP and DTR.	
Networking	- Describe the Container Network Model and how it interfaces with the Docker engine and network and IPAM drivers. - Describe the different types and use cases for the built-in network drivers. - Describe the types of traffic that flow between the Docker engine, registry and UCP controllers. - Describe and demonstrate how to create a Docker bridge network for developers to use for their containers. - Describe and demonstrate how to publish a port so that an application is accessible externally. - Identify which IP and port a container is externally accessible on. - Compare and contrast “host” and “ingress” publishing modes. - Describe and demonstrate how to configure Docker to use external DNS. - Describe and demonstrate how to use Docker to load balance HTTP/HTTPs traffic to an application (Configure L7 load balancing with Docker EE). - Understand and describe the types of traffic that flow between the Docker engine, registry, and UCP controllers. - Describe and demonstrate how to deploy a service on a Docker overlay network. - Describe and demonstrate how to troubleshoot container and engine logs to resolve connectivity	**15%**

Section	Objectives	Weight
	issues between containers. - Describe how to route traffic to Kubernetes pods using ClusterIP and NodePort services. - Describe the Kubertnetes' container network model.	
Security	- Describe security administration and tasks. - Describe the process of signing an image. - Describe default engine security. - Describe swarm default security. - Describe MTLS. - Describe identity roles. - Compare and contrast UCP workers and managers. - Describe the process to use external certificates with UCP and DTR. - Describe and demonstrate that an image passes a security scan. - Describe and demonstrate how to enable Docker Content Trust. - Describe and demonstrate how to configure RBAC with UCP. - Describe and demonstrate how to integrate UCP with LDAP/AD. - Describe and demonstrate how to create UCP client bundles.	**15%**
Storage and Volumes	- Identify the correct graph drivers to uses with various operating systems. - Describe and demonstrate how to configure devicemapper. - Compare and contrast object and block storage and when they should be used. - Describe how an application is composed of layers and where these layers reside on the filesystem. - Describe the use of volumes are used with Docker for persistent storage. - Identify the steps to take to clean up unused images on a filesystem and DTR. - Describe and demonstrate how storage can be used across cluster nodes. - Describe how to provision persistent storage to a Kubernetes pod using persistentVolumes. - Describe the relationship between container storage interface drivers, storageClass, persistentVolumeClaim and volume objects in Kubernetes.	**10%**

Broaden Your Knowledge with Mirantis DCA Sample Questions:

Question: 1

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

a) 5 managers of which 3 are healthy
b) 3 managers of which 2 are healthy
c) 1 managers of which 1 are healthy
d) 4 managers of which 2 are healthy

Answer: d

Question: 2

You have been asked to back up the swarm state on a Linux installation.By default where do Docker manager nodes store the swarm state and manager logs?

a) /var/lib/docker/swarm
b) /var/run/docker/swarm
c) /etc/docker/swarm
d) /run/docker/swarm

Answer: a

Question: 3

Where does the docker daemon persist all docker related data on host machine?

a) /var/lib/docker-ce
b) /var/lib/docker
c) none
d) /etc/docker

Answer: b

Question: 4

Docker image consists of _____ layers each of which represents a Dockerfile instruction. The layers are stacked and each one is a delta of the changes from the previous layer.

a) Movable
b) write only
c) read and write
d) read only

Answer: d

Question: 5

How does UCP provide authorized client certificate?

a) As a Client Bundle (zip file)
b) As a QR code
c) As pop-up dialog box (zip file download link)
d) None of the above

Answer: a

Question: 6

A node has 10 cores and 4 GB of memory available for scheduling Kubernetes workloads. Under the following specification, what is the maximum number of pods that can be scheduled on this host?

```
apiVersion: v1
kind: Pod
metadata:
name: busybox3
spec:
containers:
- name: dca
image: busybox
resources:
limits:
memory: "500M"
cpu: "2"
requests:
memory: "250M"
cpu: "1"
```

a) 4
b) 16
c) 10
d) 8

Answer: c

Question: 7

When querying the configuration of a running container called ‘myweb’, which command would display the container’s IP address?

a) Docker run inspect myweb |grep IP
b) Docker inspect myweb | grep IP
c) Docker myweb inspect |grewp IP
d) All of the above

Answer: b

Question: 8

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

What port on pods matching this service's selector will receive traffic sent to the service on port 8080?

a) 80/udp
b) 80/tcp
c) 8080/udp
d) 8080/tcp

Answer: b

Question: 9

Bob wants to update the secret being used by one of his service. What is the correct sequence of actions to be performed by him?

a) Update the existing secret using docker secret update
b) Update the existing secret , restart all the services using this secret
c) Create a new secret, update the service to use this new secret , delete the old secret
d) Create a new secret, create a new service with this new secret, delete old secret and old service

Answer: c

Question: 10

A developer is trying to push an image to the registry (dtr.example.com). The push fails with the error "denied: requested access to the resource is denied".

What should you verify the user has completed?

a) docker push <username>/<image:tag> dtr.example.com
b) docker registry login -u username -p <password> dtr.example.com
c) docker login -u <username> -p <password> dtr.example.com
d) docker images login -u <username> -p <password> dtr.example.com

Answer: c

Avail the Study Guide to Pass Mirantis DCA DCA Exam:

- Find out about the DCA syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the **DCA syllabus**, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the DCA training. Joining the Mirantis provided training for DCA exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the **DCA sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. DCA practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

- Passing the DCA exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

Here Is the Trusted Practice Test for the DCA Certification

VMExam.Com is here with all the necessary details regarding the DCA exam. We provide authentic practice tests for the DCA exam. What do you gain from these practice tests? You get to experience the real exam-like questions made by industry experts and get a scope to improve your performance in the actual exam. Rely on VMExam.Com for rigorous, unlimited two-month attempts on the **DCA practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the Docker Certified Associate.

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