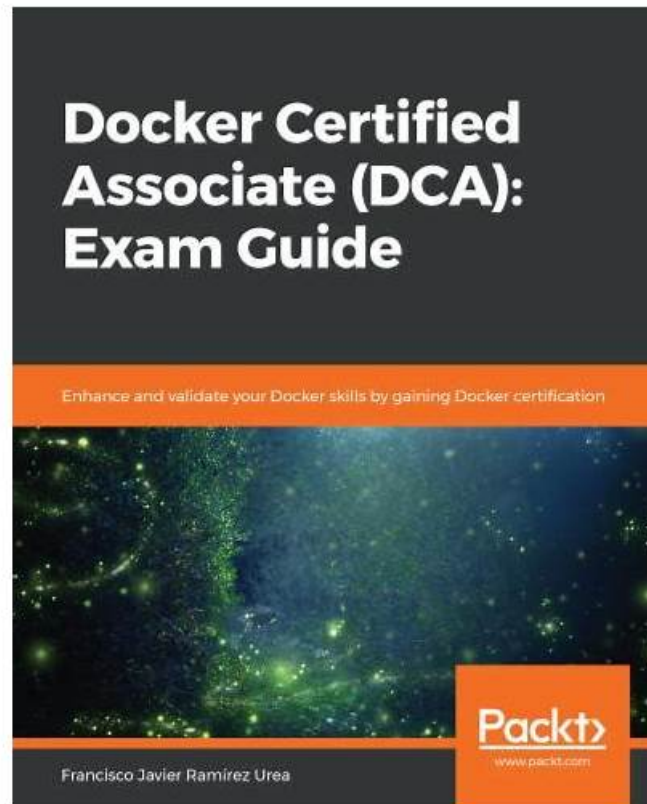


DCA Exam Discount Voucher, DCA Certified



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The DCA Certification Exam is designed for IT professionals, developers, and system administrators who work with Docker. Candidates who pass the exam demonstrate their ability to use Docker to build, ship, and run applications in containers. DCA exam covers a range of topics, including Docker basics, Dockerfile and image creation, container orchestration with Docker Swarm, and Docker networking and security.

Docker DCA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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.

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The DCA certification is an internationally recognized credential that demonstrates an individual's proficiency in Docker technology. It is a valuable certification for developers, system administrators, and IT professionals who want to enhance their skills in containerization and Docker technology. The DCA Certification validates the candidate's ability to design, build, deploy, and manage Docker containers and applications.

Docker Certified Associate (DCA) Exam Sample Questions (Q45-Q50):

NEW QUESTION # 45

You add a new user to the engineering organization in DTR.

Will this action grant them read/write access to the engineering/api repository?

Solution. Mirror the engineering/api repository to one of the user's own private repositories.

- A. No
- B. Yes

Answer: A

Explanation:

Explanation

Mirroring the engineering/api repository to one of the user's own private repositories does not grant them read/write access to the engineering/api repository. Mirroring is a feature that allows you to automatically replicate images from one repository to another, either within the same DTR or across different DTRs.

Mirroring does not change the permissions or access levels of the source or destination repositories. It only copies the images and tags from one repository to another. To grant a user read/write access to the engineering/api repository, you need to add them as a collaborator with read/write role on that repository, or add them to a team that has read/write role on that repository. References:

<https://docs.docker.com/ee/dtr/user/manage-images/mirror-repository-images/>,

<https://docs.docker.com/ee/dtr/user/manage-repositories/set-repository-permissions/>

NEW QUESTION # 46

Will this Linux kernel facility limit a Docker container's access to host resources, such as CPU or memory?

Solution: seccomp

- A. No
- B. Yes

Answer: B

Explanation:

= Seccomp is a Linux kernel feature that allows you to restrict the actions available within the container. By using a seccomp profile, you can limit the system calls that a container can make, thus enhancing its security and isolation. Docker has a default seccomp profile that blocks some potentially dangerous system calls, such as mount, reboot, or ptrace. You can also pass a custom seccomp profile for a container using the `--security-opt` option. Seccomp can limit a container's access to host resources, such as CPU or memory, by blocking or filtering system calls that affect those resources, such as `setpriority`, `sched_setaffinity`, or `mlock`. References:

* Seccomp security profiles for Docker

* Hardening Docker Container Using Seccomp Security Profile

NEW QUESTION # 47

From a DevOps process standpoint, it is best practice to keep changes to an application in version control.

Which of the following will allow changes to a docker Image to be stored in a version control system?

- A. A dockerfile
- B. A docker-compose.yml file
- C. docker save
- D. docker commit

Answer: D

NEW QUESTION # 48

Will a DTR security scan detect this?

Solution. private keys copied to the image

- A. No
- B. Yes

Answer: B

Explanation:

= A DTR security scan will detect private keys copied to the image. DTR security scan is a feature of Docker Trusted Registry (DTR) that scans images to detect any security vulnerability¹. DTR security scan uses the open source tool SecretScanner² to find unprotected secrets in container images or file systems. SecretScanner can match the contents of images against a database of approximately 140 secret types, including private keys³. Therefore, if an image contains private keys, DTR security scan will report them as potential secrets and alert the user to remove them from the image. References:

* Scan images for vulnerabilities | Docker Docs

* GitHub - deepfence/SecretScanner: :unlock: Find secrets and passwords ...

* SecretScanner/deepfence_secret_scanner.py at main deepfence/SecretScanner

NEW QUESTION # 49

A server is running low on disk space. What command can be used to check the disk usage of images, containers, and volumes for Docker engine?

- A. 'docker system prune'
- B. 'docker system free'
- C. 'docker system ps'
- D. 'docker system df'

Answer: D

NEW QUESTION # 50

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