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Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

In a Docker-based workflow, what is the role of Docker Hub?

- a. To increase the computational resources available to containers
- b. To serve as a registry for Docker images 
- c. To provide virtual machine management tools
- d. To monitor container performance

Your answer is correct.

The correct answer is: To serve as a registry for Docker images

Question 2

Correct

Mark 1.00 out of 1.00

What is Docker primarily used for?

- a. Managing containers to develop, ship, and run applications 
- b. Virtual machine management
- c. Monitoring network traffic
- d. Increasing the security of web applications

Your answer is correct.

The correct answer is: Managing containers to develop, ship, and run applications

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following is true about containers?

- a. Containers are less portable than virtual machines.
- b. Containers share the host system's kernel. 
- c. Each container has its own kernel.
- d. They virtualize the operating system only.

Your answer is correct.

The correct answer is: Containers share the host system's kernel.

Question 4

Correct

Mark 1.00 out of 1.00

How does Docker improve the deployment of applications?

- a. By centralizing applications on a single server
- b. By eliminating the need for servers
- c. By containerizing applications, ensuring consistency across environments 
- d. By increasing the number of virtual machines

Your answer is correct.

The correct answer is: By containerizing applications, ensuring consistency across environments

Question 5

Correct

Mark 1.00 out of 1.00

What is the main advantage of using edge computing in data processing?

- a. Reduced latency and bandwidth usage 
- b. Increased data security
- c. Cheaper than cloud computing
- d. Easier to manage

Your answer is correct.

The correct answer is: Reduced latency and bandwidth usage

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following is a common use case for edge computing?

- a. High-speed gaming
- b. Long-term data storage
- c. Real-time data processing 
- d. Data warehousing

Your answer is correct.

The correct answer is: Real-time data processing

Question 7

Correct

Mark 1.00 out of 1.00

What is the primary benefit of containers over virtual machines in terms of startup time?

- a. Containers require manual start-up procedures.
- b. Containers start up faster because they do not require an OS boot. 
- c. Containers use more resources, which speeds up startup.
- d. Virtual machines start up faster as they do not require installing dependencies.

Your answer is correct.

The correct answer is: Containers start up faster because they do not require an OS boot.

Question 8

Correct

Mark 1.00 out of 1.00

What distinguishes edge computing from cloud computing?

- a. Edge computing exclusively uses Windows servers.
- b. Cloud computing is used only in data centers.
- c. Cloud computing is faster and more reliable.
- d. Edge computing processes data closer to where it is generated. 

Your answer is correct.

The correct answer is: Edge computing processes data closer to where it is generated.

Question 9

Correct

Mark 1.00 out of 1.00

What does the Dockerfile specify?

- a. The commands to compile the application's source code
- b. The network settings for Docker containers
- c. The initial configuration settings of the host operating system
- d. The instructions for building the Docker image 

Your answer is correct.

The correct answer is: The instructions for building the Docker image

Question 10

Correct

Mark 1.00 out of 1.00

Which technology is NOT directly involved in containerization?

- a. Virtual Box 
- b. Kubernetes
- c. Docker
- d. LXC

Your answer is correct.

The correct answer is: Virtual Box