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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