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**CLOUD DEVOPS (EPAM) 2023-2024 EVEN SEMESTER QUIZ1**

<b>Started on</b>	Wednesday, 27 March 2024, 7:30 AM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 27 March 2024, 7:34 AM
<b>Time taken</b>	4 mins 24 secs
<b>Grade</b>	9.00 out of 10.00 (90%)

**Question 1** Correct Mark 1.00 out of 1.00

What is a Kubernetes daemonset?

- ☐ a. A way to monitor Kubernetes containers
- ☐ b. A way to manage Kubernetes hosts
- ☒ c. A way to ensure that a single copy of a pod is running on every node in a Kubernetes cluster ✓
- ☐ d. A way to manage Docker images

The correct answer is: A way to ensure that a single copy of a pod is running on every node in a Kubernetes cluster

**Question 2** Correct Mark 1.00 out of 1.00

How does Docker differ from traditional virtualization?

- ☐ a. Docker containers have more overhead than traditional virtual machines
- ☐ b. Docker containers use a hypervisor to run multiple operating systems on a single host
- ☒ c. Docker containers share the host's operating system kernel, while traditional virtualization requires a separate kernel for each virtual machine ✓
- ☐ d. Docker containers are slower than traditional virtual machines

The correct answer is: Docker containers share the host's operating system kernel, while traditional virtualization requires a separate kernel for each virtual machine

**Question 3** Correct Mark 1.00 out of 1.00

How do you create a new Docker container from an existing image?

- ☐ a. Use the docker create command
- ☐ b. Use the docker start command
- ☐ c. Use the docker build command
- ☒ d. Use the docker run command ✓

The correct answer is: Use the docker run command

**Question 4** Correct Mark 1.00 out of 1.00

What is a Docker registry?

- ☐ a. A way to monitor Docker hosts
- ☐ b. A tool for managing Docker containers
- ☐ c. A service for running Docker applications
- ☒ d. A repository for storing Docker images ✓

The correct answer is: A repository for storing Docker images

**Question 5** Correct Mark 1.00 out of 1.00

What is a Kubernetes config map?

- ☐ a. A way to manage Kubernetes nodes
- ☐ b. A way to manage Docker images
- ☐ c. A way to manage Docker containers
- ☒ d. A way to store configuration data separately from the container image ✓

The correct answer is: A way to store configuration data separately from the container image

**Question 6** Correct Mark 1.00 out of 1.00

What is a Dockerfile?

- ☐ a. A file containing instructions for how to configure a Docker host
- ☐ b. A file containing instructions for how to deploy a Docker container
- ☐ c. A file containing instructions for how to run a Docker application
- ☒ d. A file containing instructions for how to build a Docker image ✓

The correct answer is: A file containing instructions for how to build a Docker image

**Question 7** Correct Mark 1.00 out of 1.00

What is a Kubernetes horizontal pod autoscaler?

- ☐ a. A way to manage Kubernetes hosts
- ☐ b. A way to monitor Kubernetes containers
- ☐ c. A way to manage Docker images
- ☒ d. A way to automatically scale the number of pods based on CPU utilization ✓

The correct answer is: A way to automatically scale the number of pods based on CPU utilization

**Question 8** Correct Mark 1.00 out of 1.00

What is a Docker container?

- ☐ a. A read-only template for creating containers
- ☐ b. A database table
- ☒ c. A runnable instance of an image with its own isolated environment ✓
- ☐ d. A virtual machine

The correct answer is: A runnable instance of an image with its own isolated environment

**Question 9** Incorrect Mark 0.00 out of 1.00

How is Docker different from virtualization?

- ☐ a. All of the above
- ☐ b. Docker containers share the same operating system as the host, while virtual machines have their own operating system
- ☒ c. Docker containers are more lightweight and efficient than virtual machines ✗
- ☐ d. Docker containers start up and shut down faster than virtual machines

The correct answer is: All of the above

**Question 10** Correct Mark 1.00 out of 1.00

What is a Docker image?

- ☒ a. A snapshot of a container's filesystem and configuration ✓
- ☐ b. A virtual machine disk image
- ☐ c. A file containing instructions for how to deploy an application
- ☐ d. A file containing instructions for how to build a container

The correct answer is: A snapshot of a container's filesystem and configuration

◀ 12. Implementation of CI/CD

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