

Started on	Thursday, 20 February 2025, 5:27 PM
State	Finished
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Time taken	3 mins 38 secs
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a core component of the Kubernetes Master Node?

- ☐ a. Controller Manager
- ☐ b. etcd
- ☒ c. Kubelet ✓
- ☐ d. API Server

Question 2

Correct

Mark 1.00 out of 1.00

What is the primary purpose of Kubernetes?

- ☐ a. Managing databases
- ☒ b. Automating the deployment, scaling, and management of containerized applications ✓
- ☐ c. Providing a programming language for cloud applications
- ☐ d. Replacing virtual machines

Question 3

Correct

Mark 1.00 out of 1.00

What is the function of the Kubernetes API Server?

- ☐ a. It balances network traffic
- ☐ b. It runs application workloads
- ☒ c. It provides an interface for managing the cluster ✓
- ☐ d. It stores the cluster state persistently

Question 4

Correct

Mark 1.00 out of 1.00

Which component ensures that the desired state of the cluster matches the actual state?

- ☐ a. Kube Proxy
- ☐ b. Kubelet
- ☐ c. API Server
- ☒ d. Controller Manager ✓

Question 5

Correct

Mark 1.00 out of 1.00

Which of the following best describes the role of the Kubelet?

- ☒ a. It ensures that containers are running on a node and reports status to the control plane ✓
- ☐ b. It stores cluster configuration data
- ☐ c. It schedules workloads to different nodes
- ☐ d. It runs on the master node to manage API requests

Question 6

Correct

Mark 1.00 out of 1.00

What component of Kubernetes is responsible for scheduling Pods on nodes?

- ☐ a. Controller Manager
- ☒ b. Kubernetes Scheduler ✓
- ☐ c. API Server
- ☐ d. Kubelet

Question 7

Correct

Mark 1.00 out of 1.00

What is the function of etcd in Kubernetes?

- ☐ a. It balances network traffic
- ☐ b. It schedules workloads across nodes
- ☒ c. It acts as the primary database for cluster state information ✓
- ☐ d. It runs application containers

Question 8

Correct

Mark 1.00 out of 1.00

What is a Kubernetes Pod?

- ☐ a. A database service in Kubernetes
- ☒ b. A collection of containers that share network and storage resources ✓
- ☐ c. A security mechanism for running containers
- ☐ d. A virtual machine in Kubernetes

Question 9

Correct

Mark 1.00 out of 1.00

How do Worker Nodes communicate with the Kubernetes Control Plane?

- ☐ a. Through SSH connections
- ☒ b. Using REST API calls via the API Server ✓
- ☐ c. By writing logs to disk
- ☐ d. Through etcd directly

Question 10

Correct

Mark 1.00 out of 1.00

What does Kube Proxy do in Kubernetes?

- ☐ a. It stores all cluster information
- ☒ b. It manages networking rules and service discovery ✓
- ☐ c. It schedules Pods on nodes
- ☐ d. It provides persistent storage for Pods