

Started on	Thursday, 20 February 2025, 5:27 PM
State	Finished
Completed on	Thursday, 20 February 2025, 5:34 PM
Time taken	6 mins 39 secs
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

How do Worker Nodes communicate with the Kubernetes Control Plane?

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

Question 2

Correct

Mark 1.00 out of 1.00

What is the function of etcd in Kubernetes?

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

Question 3

Correct

Mark 1.00 out of 1.00

What is a Kubernetes Pod?

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

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

Question 5

Correct

Mark 1.00 out of 1.00

What does Kube Proxy do in Kubernetes?

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

Question 6

Correct

Mark 1.00 out of 1.00

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

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

Question 7

Correct

Mark 1.00 out of 1.00

What is the function of the Kubernetes API Server?

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

Question 8

Correct

Mark 1.00 out of 1.00

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

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

Question 9

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 10

Correct

Mark 1.00 out of 1.00

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

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