Started on	Monday, 2 June 2025, 5:17 PM
State	Finished
Completed on	Monday, 2 June 2025, 5:20 PM
Time taken	3 mins
Marks	10.00/15.00
Grade	**66.67** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

Which of the following components operate on a watch-reconcile-update loop?

- ○ a.   etcd
- ◉ b.   controller-manager
- ○ c.   kube-apiserver
- ○ d.   scheduler

Question 2

Complete

Mark 1.00 out of 1.00

What is stored in etcd?

- ○ a.   Running processes
- ○ b.   Container images
- ○ c.   Only logs
- ◉ d.   Desired and observed state of all objects in the cluster

Question 3

Complete

Mark 0.00 out of 1.00

Which of the following would lead the scheduler to not schedule a Pod on a node?

- ○ a.   Pod has nodeSelector not matching any node
- ○ b.   Pod is already running
- ◉ c.   Pod is in CrashLoopBackOff
- ○ d.   Node is tainted with tolerations

Question 4

Complete

Mark 1.00 out of 1.00

How does kubelet discover which Pods to run?

- ○ a. Listens to controller-manager
- ● b. Watches kube-apiserver
- ○ c. Watches kube-proxy
- ○ d. Polls etcd

Question 5

Complete

Mark 0.00 out of 1.00

When a Deployment is created, who creates the ReplicaSet and Pods?

- ● a. kube-apiserver
- ○ b. etcd
- ○ c. scheduler
- ○ d. controller-manager

Question 6

Complete

Mark 1.00 out of 1.00

What is the role of the kube-proxy?

- ○ a. Launching containers
- ● b. Managing network rules and forwarding traffic
- ○ c. Scheduling Pods
- ○ d. Encrypting etcd

Question 7

Complete

Mark 1.00 out of 1.00

Which component writes and persists the desired state of a Pod?

- ○ a. scheduler
- ○ b. kubelet
- ○ c. kube-apiserver
- ● d. etcd

Question 8

Complete

Mark 1.00 out of 1.00

What happens if the kube-apiserver becomes unavailable?

○ a.   Existing Pods are terminated

◉ b.   New deployments via kubectl will fail

○ c.   kubelet stops functioning

○ d.   etcd loses data

Question 9

Complete

Mark 0.00 out of 1.00

In the Pod creation lifecycle, which component updates the Pod's spec.nodeName field?

○ a.   scheduler

○ b.   controller-manager

○ c.   etcd

◉ d.   kube-apiserver

Question 10

Complete

Mark 1.00 out of 1.00

If a user deletes a Pod that is part of a Deployment, what happens?

○ a.   API server removes ReplicaSet

○ b.   Scheduler stops scheduling

○ c.   Pod is gone permanently

◉ d.   Controller-manager recreates the Pod

Question 11

Complete

Mark 1.00 out of 1.00

What does kubelet do when it detects a new Pod object scheduled to its node?

◉ a.   Pulls container image and starts the Pod

○ b.   Updates etcd

○ c.   Runs admission control

○ d.   Modifies the pod spec

Question 12

Complete

Mark 0.00 out of 1.00

Which component is responsible for assigning Pods to nodes?

○ a. kubelet

○ b. kube-proxy

○ c. controller-manager

○ d. scheduler

Question 13

Complete

Mark 1.00 out of 1.00

What type of requests does kubectl generate to the API server?

○ a. DNS

○ b. gRPC

◉ c. HTTPS REST API

○ d. WebSockets

Question 14

Complete

Mark 0.00 out of 1.00

Which Kubernetes component is solely responsible for all REST API interactions within the cluster?

○ a. kube-apiserver

◉ b. kubelet

○ c. etcd

○ d. controller-manager

Question 15

Complete

Mark 1.00 out of 1.00

Which component verifies authentication and authorization of kubectl commands?

○ a. controller-manager

○ b. scheduler

○ c. kube-proxy

◉ d. kube-apiserver