Started on	Monday, 2 June 2025, 5:17 PM
State	Finished
Completed on	Monday, 2 June 2025, 5:24 PM
Time taken	7 mins 10 secs
Marks	13.00/15.00
Grade	**86.67** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What is stored in etcd?

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

Question 2

Complete

Mark 1.00 out of 1.00

Which component is responsible for assigning Pods to nodes?

- ○ a.　kubelet
- ○ b.　kube-proxy
- ○ c.　controller-manager
- ● d.　scheduler

Question 3

Complete

Mark 1.00 out of 1.00

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

- ● a.　HTTPS REST API
- ○ b.　WebSockets
- ○ c.　gRPC
- ○ d.　DNS

Question 4
Complete
Mark 1.00 out of 1.00

Which component verifies authentication and authorization of kubectl commands?

○ a.   kube-proxy

○ b.   controller-manager

◉ c.   kube-apiserver

○ d.   scheduler

Question 5
Complete
Mark 1.00 out of 1.00

What happens if the kube-apiserver becomes unavailable?

○ a.   etcd loses data

○ b.   kubelet stops functioning

◉ c.   New deployments via kubectl will fail

○ d.   Existing Pods are terminated

Question 6
Complete
Mark 1.00 out of 1.00

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

○ a.   etcd

○ b.   scheduler

○ c.   kube-apiserver

◉ d.   controller-manager

Question 7
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.   kube-apiserver

○ c.   etcd

○ d.   controller-manager

Question 8

Complete

Mark 0.00 out of 1.00

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

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

Question 9

Complete

Mark 1.00 out of 1.00

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

- ○ a.   Pod is gone permanently
- ⦿ b.   Controller-manager recreates the Pod
- ○ c.   Scheduler stops scheduling
- ○ d.   API server removes ReplicaSet

Question 10

Complete

Mark 1.00 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.   Node is tainted with tolerations
- ○ c.   Pod is already running
- ○ d.   Pod is in CrashLoopBackOff

Question 11

Complete

Mark 1.00 out of 1.00

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

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

Question 12

Complete

Mark 1.00 out of 1.00

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

- ○ a.   kubelet
- ○ b.   etcd
- ○ c.   controller-manager
- ⦿ d.   kube-apiserver

Question 13

Complete

Mark 1.00 out of 1.00

What is the role of the kube-proxy?

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

Question 14

Complete

Mark 1.00 out of 1.00

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

- ○ a.   Updates etcd
- ○ b.   Modifies the pod spec
- ⦿ c.   Pulls container image and starts the Pod
- ○ d.   Runs admission control

Question 15

Complete

Mark 1.00 out of 1.00

How does kubelet discover which Pods to run?

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