Kubernetes Quiz

Total points   9/10

The respondent's email () was recorded on submission of this form.

✓ **What command is used to view the logs of a pod in Kubernetes?**   1/1

○ kubectl get logs <pod-name>

⦿ kubectl logs <pod-name>   ✓

○ kubectl describe logs <pod-name>

○ kubectl show logs <pod-name>

✓ **What is the purpose of a Kubernetes ConfigMap?**   1/1

○ To store persistent data

⦿ To manage application configurations in key-value pairs   ✓

○ To store secrets securely

○ To manage cluster nodes

✓ How do you update the image of a running pod in a Kubernetes   1/1
deployment?

○ kubectl set image pod/<pod-name> <container-name>=<new-image>

◉ kubectl set image deployment/<deployment-name> <container-name>=<new-   ✓
image>

○ kubectl update image deployment/<deployment-name> <container-name>=<new-
image>

○ kubectl upgrade image deployment/<deployment-name> <container-name>=<new-
image>

✓ What is the difference between a Kubernetes Service of type ClusterIP and   1/1
NodePort?

◉ ClusterIP exposes the service on a specific IP within the cluster; NodePort   ✓
exposes the service on a port on each node.

○ ClusterIP exposes the service externally; NodePort exposes the service internally

○ ClusterIP provides load balancing; NodePort does not

○ ClusterIP is for stateful applications; NodePort is for stateless applications

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✓ Which component in Kubernetes is responsible for maintaining the desired   1/1
state of objects?

○ Kubelet

◉ Controller Manager   ✓

○ Scheduler

○ API Server

✓   How do you scale a deployment named "web-app" to 5 replicas using   1/1
     kubectl?

   ⦿ kubectl scale deployment web-app --replicas=5   ✓

   ○ kubectl set replicas deployment web-app 5

   ○ kubectl resize deployment web-app --replicas=5

   ○ kubectl update deployment web-app --replicas=5

✓   What does the kubectl rollout undo command do?   1/1

   ○ It deletes a deployment

   ○ It updates a deployment to a new version

   ⦿ It undoes the last rollout of a deployment   ✓

   ○ It scales down a deployment

✓   What type of Kubernetes resource is used to automatically create and   1/1
     manage multiple replicas of a pod?

   ○ Service

   ○ ConfigMap

   ⦿ Deployment   ✓

   ○ PersistentVolume

✓ **Which command would you use to display detailed information about a node named "node-1"?**   1/1

○ kubectl get node node-1

◉ kubectl describe node node-1   ✓

○ kubectl show node node-1

○ kubectl info node node-1

✗ **What Kubernetes object would you use to define a set of pods running a specific container image with specific labels?**   0/1

○ Job

○ ReplicaSet

◉ StatefulSet   ✗

○ CronJob

Correct answer

◉ ReplicaSet

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