

Question 1 of 7

What is the requested capacity of the mariadb PV?

4Gi

```
linux@ip-10-102-9-65:~$ kubectl apply -f deployment.yaml
deployment.apps/mariadb-deployment created
storageclass.storage.k8s.io/local-storage created
persistentvolume/mariadb-pv created
persistentvolumeclaim/mariadb-pvc created
linux@ip-10-102-9-65:~$
linux@ip-10-102-9-65:~$ kubectl get pv mariadb-pv
NAME      CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM          STORAGECLASS  REASON  AGE
mariadb-pv 4Gi       RWO           Retain          Bound   default/mariadb-pvc  local-storage             17s
linux@ip-10-102-9-65:~$
```

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What is the storageclass name of the mariadb PVC?

local-storage

```
linux@ip-10-102-9-65:~$ kubectl get pvc mariadb-pvc
NAME      STATUS  VOLUME      CAPACITY  ACCESS MODES  STORAGECLASS  AGE
mariadb-pvc Bound   mariadb-pv   4Gi       RWO           local-storage  2m12s
linux@ip-10-102-9-65:~$
```

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What is the path of the PV on the host?

/mnt/mariadb

```
linux@ip-10-102-9-65:~$ kubectl describe pv mariadb-pv
Name:          mariadb-pv
Labels:        type=local
Annotations:    pv.kubernetes.io/bound-by-controller: yes
Finalizers:    [kubernetes.io/pv-protection]
StorageClass:  local-storage
Status:        Bound
Claim:         default/mariadb-pvc
Reclaim Policy: Retain
Access Modes:  RWO
VolumeMode:    Filesystem
Capacity:      4Gi
Node Affinity: <none>
Message:
Source:
  Type:          HostPath (bare host directory volume)
  Path:          /mnt/mariadb
  HostPathType:
Events:         <none>
linux@ip-10-102-9-65:~$
```

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In the directory from question three, how many sub-directories are there?

3

```
linux@ip-10-102-9-65:~$ ls -l /mnt/mariadb/ | grep drw
drwx--S--- 2 systemd-coredump linux    4096 Feb 11  2021 immersivelabs
drwx--S--- 2 systemd-coredump linux    4096 Feb 11  2021 mysql
drwx--S--- 2 systemd-coredump linux    4096 Feb 11  2021 performance_schema
```

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After completing the third task, what are the last six characters of the token value for #19 inside the 'Kubernetes' table?

56cd4e

```
linux@ip-10-102-9-65:~$ kubectl get po
NAME                                READY   STATUS    RESTARTS   AGE
mariadb-deployment-775544594-695pm 1/1     Running   0           12m
linux@ip-10-102-9-65:~$ kubectl exec mariadb-deployment-775544594-695pm -- mysql -uroot -e "use immersivelabs; select * from kubernetes limit 20;"
id      token
1       223a77b2-1b8d-4508-8c41-c7735a58d85c
2       d96db078-64b9-42b0-aade-025b78786a06
3       8167f2a9-0939-49e1-bfb4-b4a4281f5b90
4       c634008e-28b5-451c-afbd-9f2ca77fe437
5       42aad524-94b3-487b-977a-bd2eccc251b
6       66fd3afe-67fc-404e-9f2c-a4607c29585d
7       3b0a18aa-837e-4c80-bab2-6c7befd54dfc
8       a26bdcbf-fbc6-4b9e-9b7d-092ba29931d9
9       1a93bba6-5e4f-4a20-a366-bd78412d25a3
10      592e6ed7-b1fe-41ac-9c46-e89ee8cfce7
11      0d62111d-8eca-42ec-a6f1-6381f5abf17d
12      8f83f0dd-df7a-4889-b261-d472129918c1
13      8d51f54f-3be5-46ac-8ee7-dabb6af3f371
14      408c6ec6-3475-4a77-b6ca-40d8d8375ebf
15      3c0f2941-0e33-4d0c-8e02-645308fe4df3
16      5e58011d-6e16-4ede-b589-5a0b8ebfb59d
17      5b099721-6fe0-429d-b29c-516e09a9da43
18      b6028548-51e7-4bc4-991c-b98572b83743
19      a541019e-976f-4ebd-9c36-e5ddb756cd4e
20      00e0a6ab-8942-4ab3-9ba4-73be0c2da08a
linux@ip-10-102-9-65:~$
```

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What is the token value for #20 after pod deletion?

83d78e

```
linux@ip-10-102-9-65:~$ kubectl delete po mariadb-deployment-775544594-695pm
pod "mariadb-deployment-775544594-695pm" deleted
linux@ip-10-102-9-65:~$ kubectl get po
NAME                                READY   STATUS    RESTARTS   AGE
mariadb-deployment-775544594-z2248 1/1     Running   0           18s
linux@ip-10-102-9-65:~$ kubectl exec mariadb-deployment-775544594-z2248 -- mysql -uroot -e "use immersivelabs; select * from kubernetes limit 20;"
id      token
1       223a77b2-1b8d-4508-8c41-c7735a58d85c
2       d96db078-64b9-42b0-aade-025b78786a06
3       8167f2a9-0939-49e1-bfb4-b4a4281f5b90
4       c634008e-28b5-451c-afbd-9f2ca77fe437
5       42aad524-94b3-487b-977a-bd2eccc251b
6       66fd3afe-67fc-404e-9f2c-a4607c29585d
7       3b0a18aa-837e-4c80-bab2-6c7befd54dfc
8       a26bdcbf-fbc6-4b9e-9b7d-092ba29931d9
9       1a93bba6-5e4f-4a20-a366-bd78412d25a3
10      592e6ed7-b1fe-41ac-9c46-e89ee8cfce7
11      0d62111d-8eca-42ec-a6f1-6381f5abf17d
12      8f83f0dd-df7a-4889-b261-d472129918c1
13      8d51f54f-3be5-46ac-8ee7-dabb6af3f371
14      408c6ec6-3475-4a77-b6ca-40d8d8375ebf
15      3c0f2941-0e33-4d0c-8e02-645308fe4df3
16      5e58011d-6e16-4ede-b589-5a0b8ebfb59d
17      5b099721-6fe0-429d-b29c-516e09a9da43
18      b6028548-51e7-4bc4-991c-b98572b83743
19      a541019e-976f-4ebd-9c36-e5ddb756cd4e
20      83d78e
linux@ip-10-102-9-65:~$
```

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After completing the final two tasks, what is the error code returned for a database query?

1049

```
linux@ip-10-102-9-65:~$ sudo rm -rf /mnt/mariadb/
linux@ip-10-102-9-65:~$ kubectl exec mariadb-deployment-775544594-z2248 -- mysql -uroot -e "use immersivelabs; select * from kubernetes limit 20;"
ERROR 1049 (42000) at line 1: Unknown database 'immersivelabs'
command terminated with exit code 1
linux@ip-10-102-9-65:~$
```