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QUESTION 1

List the nginx pod with custom columns POD_NAME and POD_STATUS

Correct Answer: Check the answer in explanation.

Solution

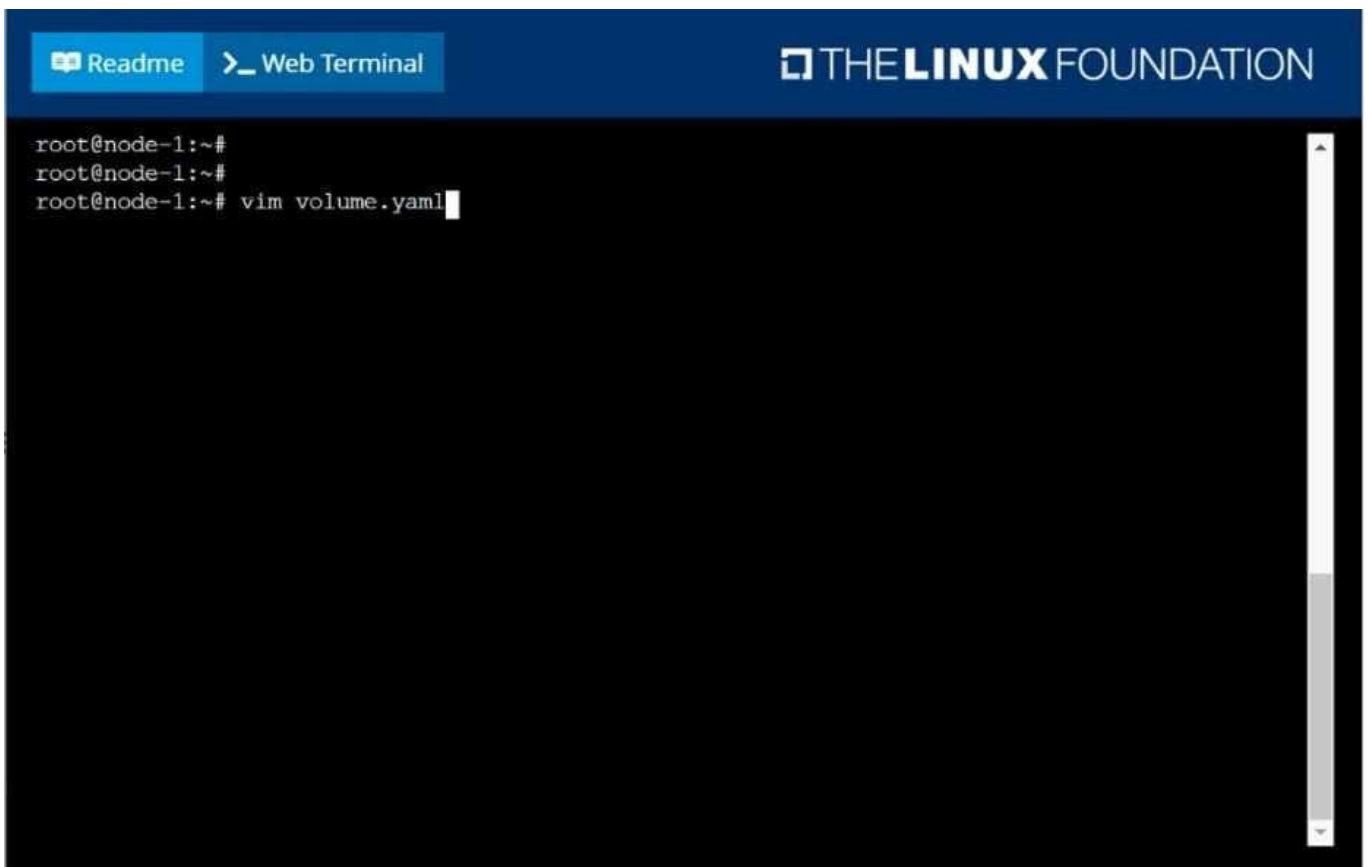
```
kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"
```

QUESTION 2

SIMULATION

Create a pod as follows: Name: non-persistent-redis container Image: redis Volume with name: cache-control Mount path: /data/redis The pod should launch in the staging namespace and the volume must not be persistent.

Correct Answer: Check the answer in explanation.



```
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apiVersion: v1
kind: Pod
metadata:
  name: non-persistent-redis
  namespace: staging
spec:
  containers:
  - name: redis
    image: redis
    volumeMounts:
    - name: cache-control
      mountPath: /data/redis
  volumes:
  - name: cache-control
    emptyDir: {}
~
~
~
~
~
~
~
~
~
:w
```

```
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root@node-1:~#
root@node-1:~#
root@node-1:~# vim volume.yaml
root@node-1:~# k create -f volume.yaml
pod/non-persistent-redis created
root@node-1:~# k get po -n staging
NAME                READY   STATUS    RESTARTS   AGE
non-persistent-redis 1/1     Running   0           6s
root@node-1:~#
```

QUESTION 3

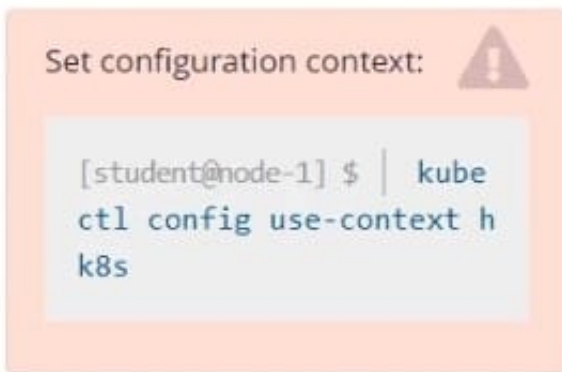
Get IP address of the pod - "nginx-dev"

Correct Answer: Check the answer in explanation.

Kubect1 get po -o wide Using JsonPath kubect1 get pods -o=jsonpath='{range .items[*]}{.metadata.name}{"\t"}{.status.podIP}{"\n"}{end}'

QUESTION 4

CORRECT TEXT



Task

Create a persistent volume with name app-data , of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data .

Correct Answer:

```
#vi pv.yaml apiVersion: v1 kind: PersistentVolume metadata: name: app-config spec: capacity: storage: 1Gi accessModes:
```

```
-ReadOnlyMany hostPath: path: /srv/app-config # kubectl create -f pv.yaml
```

QUESTION 5

CORRECT TEXT



Task

From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00401/KUTR00401.txt (which already exists).

Correct Answer: Check the answer in explanation.

```
kubectl top -l name=cpu-user -A echo '\pod name\' >> /opt/KUT00401/KUT00401.txt
```

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