

## CKA<sup>Q&As</sup>

Certified Kubernetes Administrator (CKA) Program





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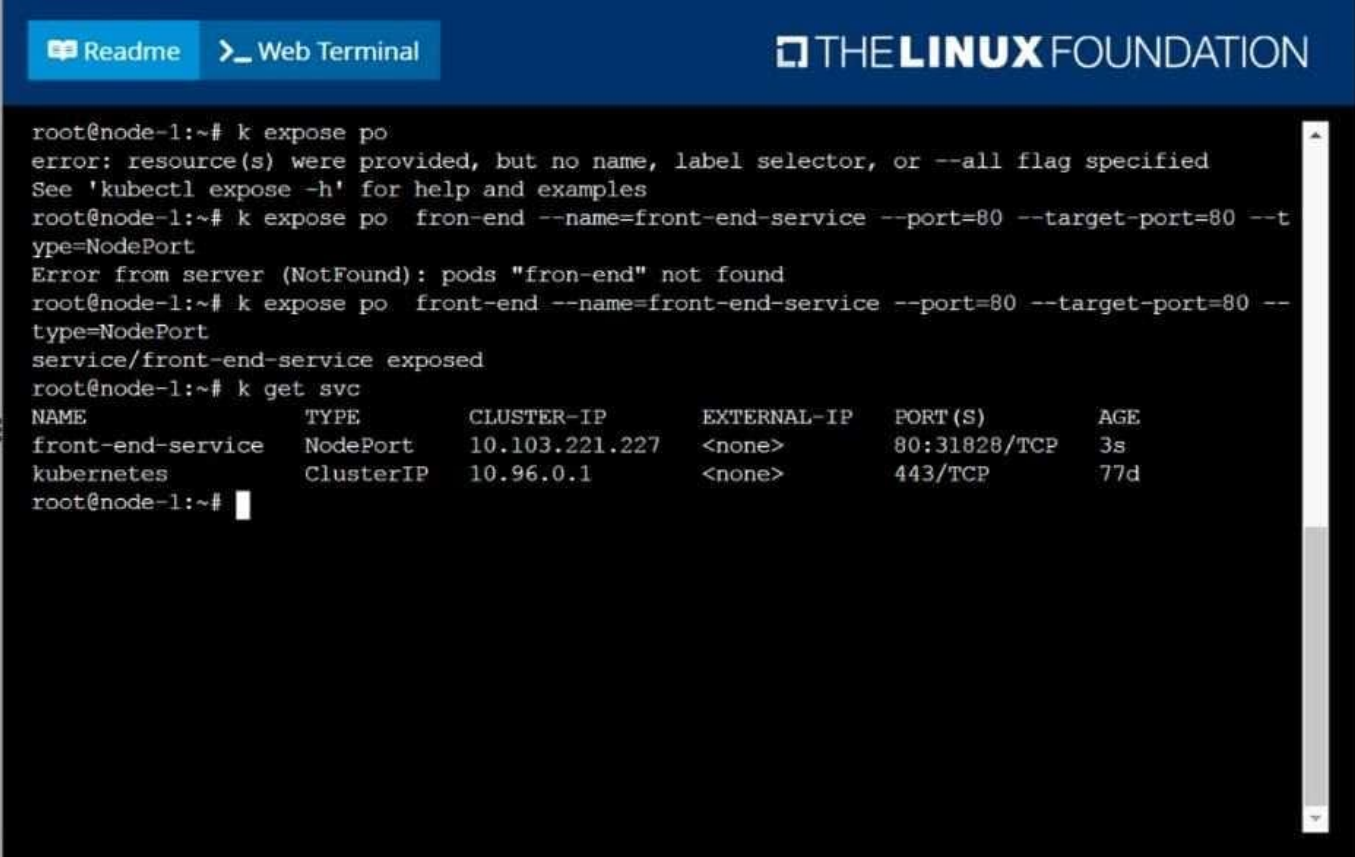
**QUESTION 1**

## SIMULATION

Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

Correct Answer: Check the answer in explanation.

Solution



```
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po fron-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME                TYPE                CLUSTER-IP          EXTERNAL-IP          PORT(S)              AGE
front-end-service   NodePort            10.103.221.227     <none>                80:31828/TCP         3s
kubernetes           ClusterIP           10.96.0.1           <none>                443/TCP              77d
root@node-1:~#
```

**QUESTION 2**

List the nginx pod with custom columns POD\_NAME and POD\_STATUS

Correct Answer: Check the answer in explanation.

Solution

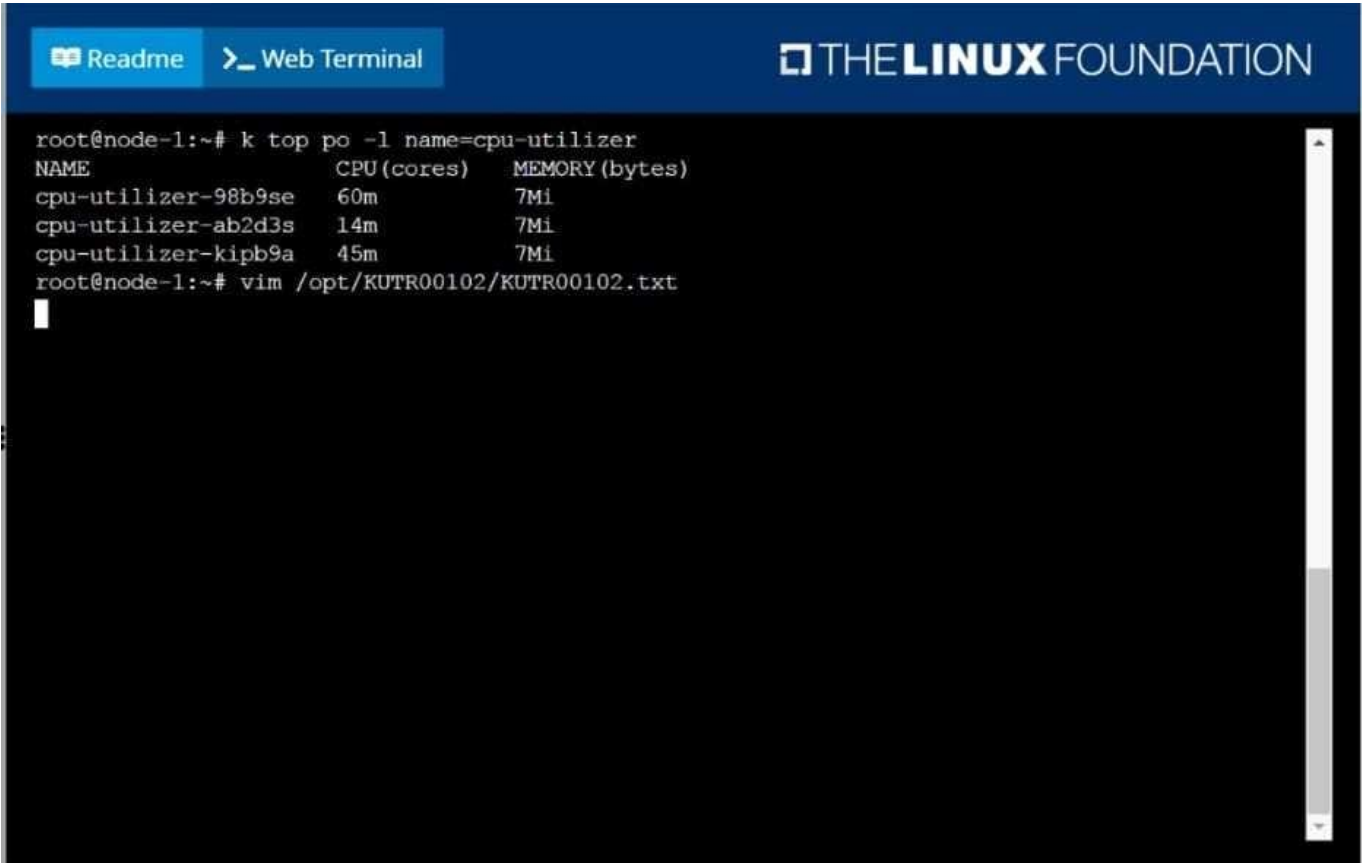
```
kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"
```

**QUESTION 3**

## SIMULATION

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/KUTR00102/KUTR00102.txt (which already exists).

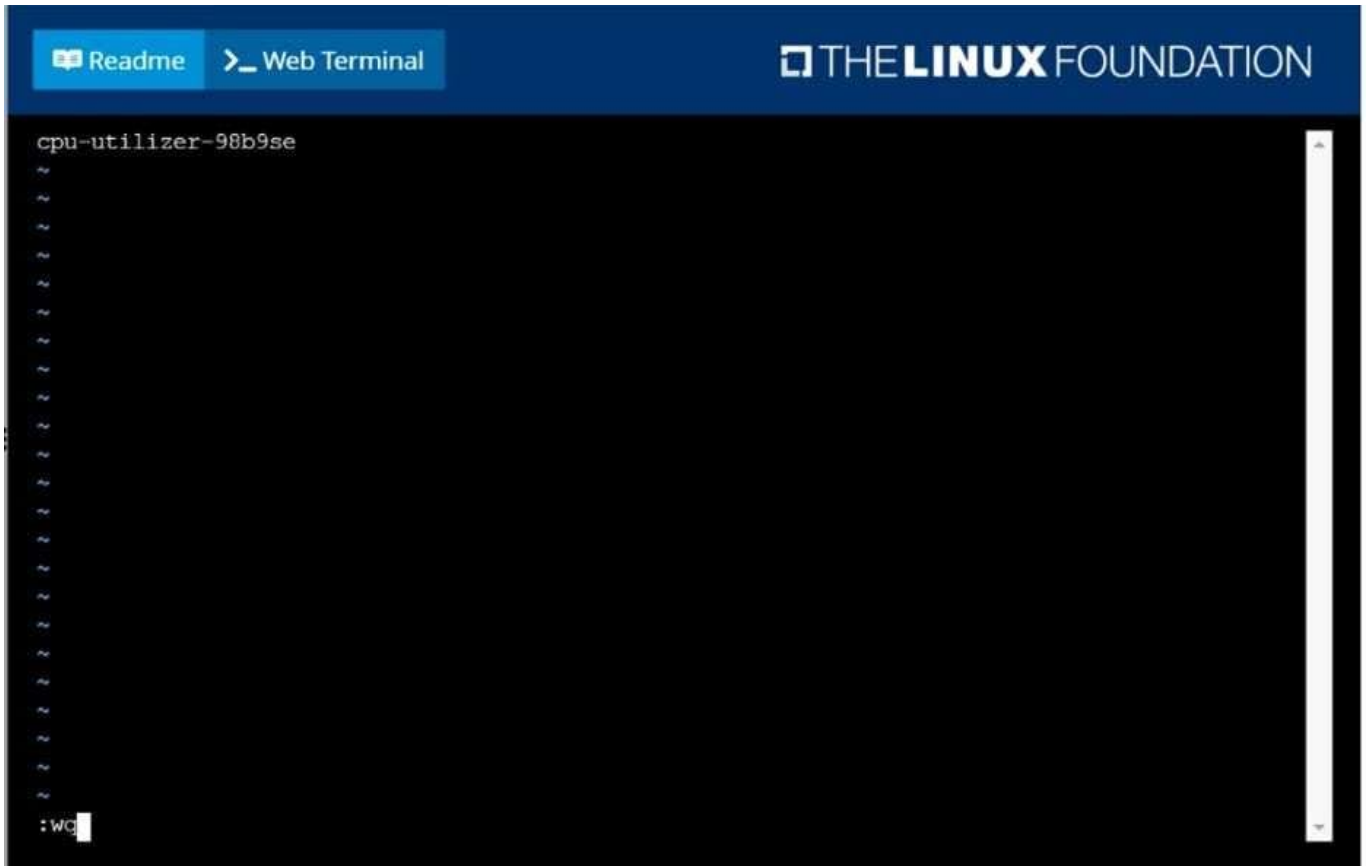
Correct Answer: Check the answer in explanation.



The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active. In the top right corner, the logo for 'THE LINUX FOUNDATION' is visible. The terminal output shows the following commands and results:

```
root@node-1:~# k top po -l name=cpu-utilizer
NAME                CPU(cores)  MEMORY(bytes)
cpu-utilizer-98b9se  60m         7Mi
cpu-utilizer-ab2d3s  14m         7Mi
cpu-utilizer-kipb9a  45m         7Mi
root@node-1:~# vim /opt/KUTR00102/KUTR00102.txt
```

The vim editor is open, showing a blank file with a cursor at the beginning of the first line.



## QUESTION 4

CORRECT TEXT



Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

1.

Deployment

2.

StatefulSet

3.

DaemonSet

Create a new ServiceAccount named cicd-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cicd-token, limited to the namespace app-team1.

Correct Answer: Check the answer in explanation.

Task should be complete on node k8s -1 master, 2 worker for this connect use command [student@node-1] > ssh k8s  
kubectl create clusterrole deployment-clusterrole --verb=create -- resource=deployments,statefulsets,daemonsets  
kubectl create serviceaccount cicd-token --namespace=app-team1 kubectl create rolebinding deployment-clusterrole  
--clusterrole=deployment-clusterrole -- serviceaccount=default:cicd-token --namespace=app-team1

---

## QUESTION 5

List all the pods showing name and namespace with a json path expression

Correct Answer: Check the answer in explanation.

Solution

```
kubectl get pods -o=jsonpath="{.items[*][\metadata.name\, \metadata.namespace\]}"
```

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