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QUESTION 1

Create a busybox pod and add "sleep 3600" command

Correct Answer: Check the answer in explanation.

Solution

kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"

QUESTION 2

SIMULATION For this item, you will have to ssh to the nodes ik8s-master-0 and ik8s-node-0 and complete all tasks on these nodes. Ensure that you return to the base node (hostname: node-1) when you have completed this item. Context

As an administrator of a small development team, you have been asked to set up a Kubernetes cluster to test the viability of a new application.

Task

You must use kubeadm to perform this task. Any kubeadm invocations will require the use of the -- ignore-preflight-errors=all option.

Configure the node ik8s-master-O as a master node. .

Join the node ik8s-node-o to the cluster.

Correct Answer: Check the answer in explanation.

Solution

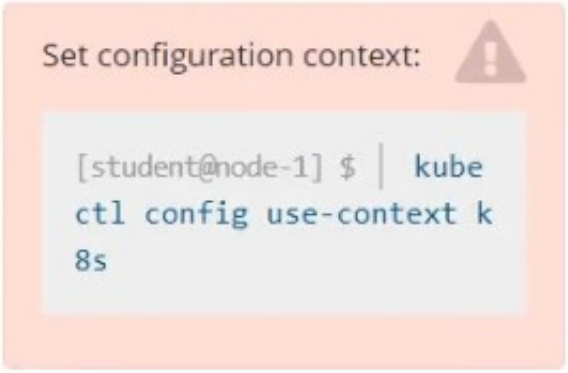
You must use the kubeadm configuration file located at /etc/kubeadm.conf when initializing your cluster.

You may use any CNI plugin to complete this task, but if you don\\'t have your favourite CNI plugin\\'s manifest URL at hand, Calico is one popular option:

https://docs.projectcalico.org/v3.14/manifests/calico.yaml Docker is already installed on both nodes and apt has been configured so that you can install the required tools.

QUESTION 3

SIMULATION



Task

Reconfigure the existing deployment front-end and add a port specification named http exposing port 80/tcp of the existing container nginx. Create a new service named front-end-svc exposing the container port http.

Configure the new service to also expose the individual Pods via a NodePort on the nodes on which they are scheduled.

Correct Answer: Check the answer in explanation.

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl get deployments.apps
NAME           READY   UP-TO-DATE   AVAILABLE   AGE
front-end      2/2     2            2           5h57m
presentation   2/2     2            2           5h56m
student@node-1:~$ kubectl edit deployments.apps front-end
```

```
# Please edit the object below. Lines beginning with a '#' will be ignored,
# and an empty file will abort the edit. If an error occurs while saving this file will be
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
    kubectl.kubernetes.io/last-applied-configuration: |
      {"apiVersion":"apps/v1","kind":"Deployment","metadata":{"annotations":{},"name":"front-end","namespace":"default"},"s
pec":{"replicas":2,"selector":{"matchLabels":{"app":"front-end"}},"template":{"metadata":{"labels":{"app":"front-end"}},"sp
ec":{"containers":[{"image":"nginx:1.14.2","name":"nginx"}]}}}}
  creationTimestamp: "2022-04-25T09:24:15Z"
  generation: 1
  name: front-end
  namespace: default
  resourceVersion: "3939"
  uid: 1db4fd19-6a6e-4639-a39e-25f836be0017
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: front-end
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: front-end
    spec:
      containers:
      - image: nginx:1.14.2
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          name: http
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
      dnsPolicy: ClusterFirst
      restartPolicy: Always
      schedulerName: default-scheduler
      securityContext: {}
      terminationGracePeriodSeconds: 30
status:
  availableReplicas: 2
:wq
```

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl get deployments.apps
NAME           READY   UP-TO-DATE   AVAILABLE   AGE
front-end      2/2     2            2           5h57m
presentation   2/2     2            2           5h56m
student@node-1:~$ kubectl edit deployments.apps front-end
deployment.apps/front-end edited
student@node-1:~$ kubectl expose deployment front-end --name=front-end-svc --port=80 --type=NodePort --protocol=TCP
service/front-end-svc exposed
student@node-1:~$ kubectl describe svc front-end-svc
Name:                     front-end-svc
Namespace:                default
Labels:                   <none>
Annotations:              <none>
Selector:                 app=front-end
Type:                     NodePort
IP Family Policy:         SingleStack
IP Families:              IPv4
IP:                       10.107.66.230
IPs:                      10.107.66.230
Port:                     <unset>  80/TCP
TargetPort:               80/TCP
NodePort:                 <unset>  30392/TCP
Endpoints:                10.244.1.9:80,10.244.2.8:80
Session Affinity:         None
External Traffic Policy:  Cluster
Events:                   <none>
student@node-1:~$
```

QUESTION 4

List all the pods sorted by name

Correct Answer: Check the answer in explanation.

kubect1 get pods --sort-by=.metadata.name

QUESTION 5

SIMULATION List "nginx-dev" and "nginx-prod" pod and delete those pods

Correct Answer: Check the answer in explanation.

kubect1 get pods -o wide

kubectl delete po "nginx-dev"kubectl delete po "nginx-prod"