LinuxFoundation.CKAD.v2026-02-02.q103

□□□□:	CKAD
□□□□:	Linux Foundation Certified Kubernetes Application Developer Exam
□□□:	Linux Foundation
□□ □□ □□□:	103
□□:	v2026-02-02
# □□ □:	131
# □□ □□□:	1030
https://www.krdump.com/LinuxFoundation.CKAD.v2026-02-02.q103.html	

NEW QUESTION: 1
□□ □□□ 'version' □□□ □□□□ □□ □□□ □□□□ □□□□ □□□□□ □□ □□□□ □□□ □□□□□□□ □□□□. □□ □□, □□□ 'VI'□ □□□ □□ □□□ 'VI' □□□ □□□ □ □□□□□□ □□, □□□ 'v?'□ □□□ □□ □□□ 'v?' □□□□ □□□□□□ □□□. □□ □ □□ □□□□ □□□□ □□ Kubernetes□□ Ambassador □□□ □□□□ □□□□□.
Answer:
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□□□(□□□) :
1. □□□□ □□□ □ □□ □□:
- Ambassador □□□ □□□□ Ambassador □□□ □ □□□ □□□□□.
- □□□ https:ngithub.com/datawire/ambassador□□ □□□ □ □□□□.
- '□□' □□□ □□□□ □□ □□ □□□□ □□ Ambassador □□□ □□□□□ □□□ □□□ □□□□.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: ambassador
spec:
  replicas: 1
  selector:
    matchLabels:
      app: ambassador
  template:
    metadata:
      labels:
        app: ambassador
    spec:
      containers:
      - name: ambassador
        image: datawire/ambassador:latest
        ports:
          - containerPort: 8080
        resources:
          limits:
            cpu: 500m
            memory: 512Mi
          requests:
            cpu: 100m
            memory: 128Mi
      imagePullSecrets:
        - name: my-registry-secret
```


2. □□ □□ □□□□ □□ Ambassador □□: - □□□□ '□□' □□□ □□□□ □□□ □□□□ □ Ambassador YAML □□□ □□□□□□□. - □ □□□ □□ □□□ □□ □□□ □□□□□ □□ □□□ □□□□□.

```
---
apiVersion: getambassador.io/v2
kind: Mapping
metadata:
  name: version-mapping
spec:
  prefix: /
  host: ""
  service: service-name
  ambassador_id: default
  headers:
    - name: "Version"
      regex: "^v[1-9]+$"
      add_to_request: true
  labels:
    kubernetes.io/service-name: service-name
---
apiVersion: getambassador.io/v2
kind: Mapping
metadata:
  name: version-mapping-v1
spec:
  prefix: /v1
  host: ""
  service: service-name-v1
  ambassador_id: default
  headers:
    - name: "Version"
      regex: "^v1$"
      add_to_request: true
  labels:
    kubernetes.io/service-name: service-name-v1
---
apiVersion: getambassador.io/v2
kind: Mapping
metadata:
  name: version-mapping-v2
spec:
  prefix: /v2
  host: ""
  service: service-name-v2
  ambassador_id: default
  headers:
    - name: "Version"
      regex: "^v2$"
      add_to_request: true
  labels:
    kubernetes.io/service-name: service-name-v2
```


3. Ambassador □□ □□: - Kubernetes□□ Ambassador □□□ □□□□ □□ ConfigMap □□ Secret□ □□□□□. - □□ □□ □ □□□ Ambassador □□□ □□□□□. 4. □□□ □□□ □

□□□□. - □□□□□□□ □ □□□ □□ □□□ □□□ □□□□ □□□□□. - □ □□□□ Ambassador □□□□ □□□ □□□ □□□ □□□ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: service-name-v1
spec:
  replicas: 1
  selector:
    matchLabels:
      app: service-name-v1
  template:
    metadata:
      labels:
        app: service-name-v1
    spec:
      containers:
      - name: service-name-v1
        image: your-image-v1:latest
        ports:
          - containerPort: 8080
```

5. □□□ □□□: - □□ 'Version' □□□ □□□□ Ambassador □□□□ □□□ □□□□. - □□ □□ □□ □□□ □□□□ □□□□ □□□□□□ □□□□□. bash curl -H 'Version: VI" http://ambassador-service-ip:8080/ curl -H 'Version: v2" http://ambassador-service-ip:8080/ □□ □ □□ 'Version' □□□ □□□□ □□□ □□□ □□□□ □□□ □□□□□□.,

NEW QUESTION: 2

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* □/□ □(key1/value4)□ □□□□ another-secret□□□ □□□ □□□ □□□□□.

* □□□□ □□□ nginx□ □□□□ nginx-secret□□□ □□□ nginx pod□ □□□□, pod □□ □ □□ □□ □□□□ COOL_VARIABLE□ □□□□ □□ □ □ 1□ □□ □□□□ □□ □□□ □□□□□. □□□ □□□□ □□□□□.

Answer:

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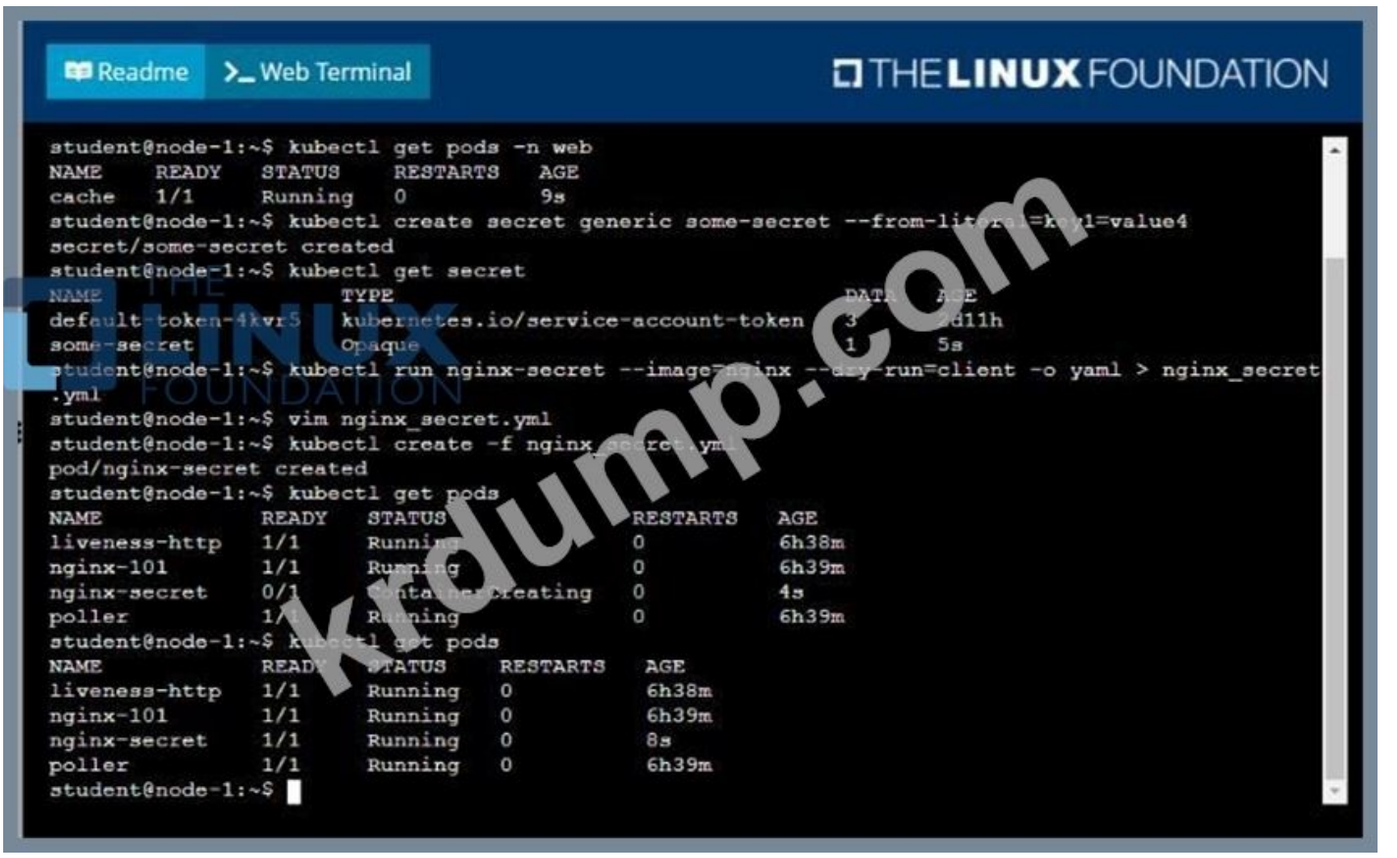
□□□:


student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value1
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME TYPE DATA AGE
default-token-4kvr5 kubernetes.io/service-account-token 3 2d11h
some-secret Opaque 1 5s
student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret
.yml
student@node-1:~$ vim nginx_secret.yml
Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
creationTimestamp: null
labels:
run: nginx-secret
name: nginx-secret
spec:
containers:
- image: nginx
name: nginx-secret
resources: {}
dnsPolicy: ClusterFirst
restartPolicy: Always
status: {}
"nginx_secret.yml" 15L, 253C
1,1
All


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-secret
name: nginx-secret
spec:
containers:
- image: nginx
name: nginx-secret
env:
- name: COOL_VARIABLE
valueFrom:
secretKeyRef:
name: some-secret
key: key1
-- INSERT --
16,20
All



NEW QUESTION: 3

□□□ □□□ □□ Python □□□□□ □□□□ Kubernetes □□□ □□□□. □□□□□ □□ □□ □ 30□□ □□□, □□ □ □□□ □□ 3□□□ □□□□□ □□□. □□, □□□ □□ 45□ □□□ □□□□□ □□□□ □□□. □□□ □□□ □□□□ □□ YAML □□□ □□□□□.

Answer:

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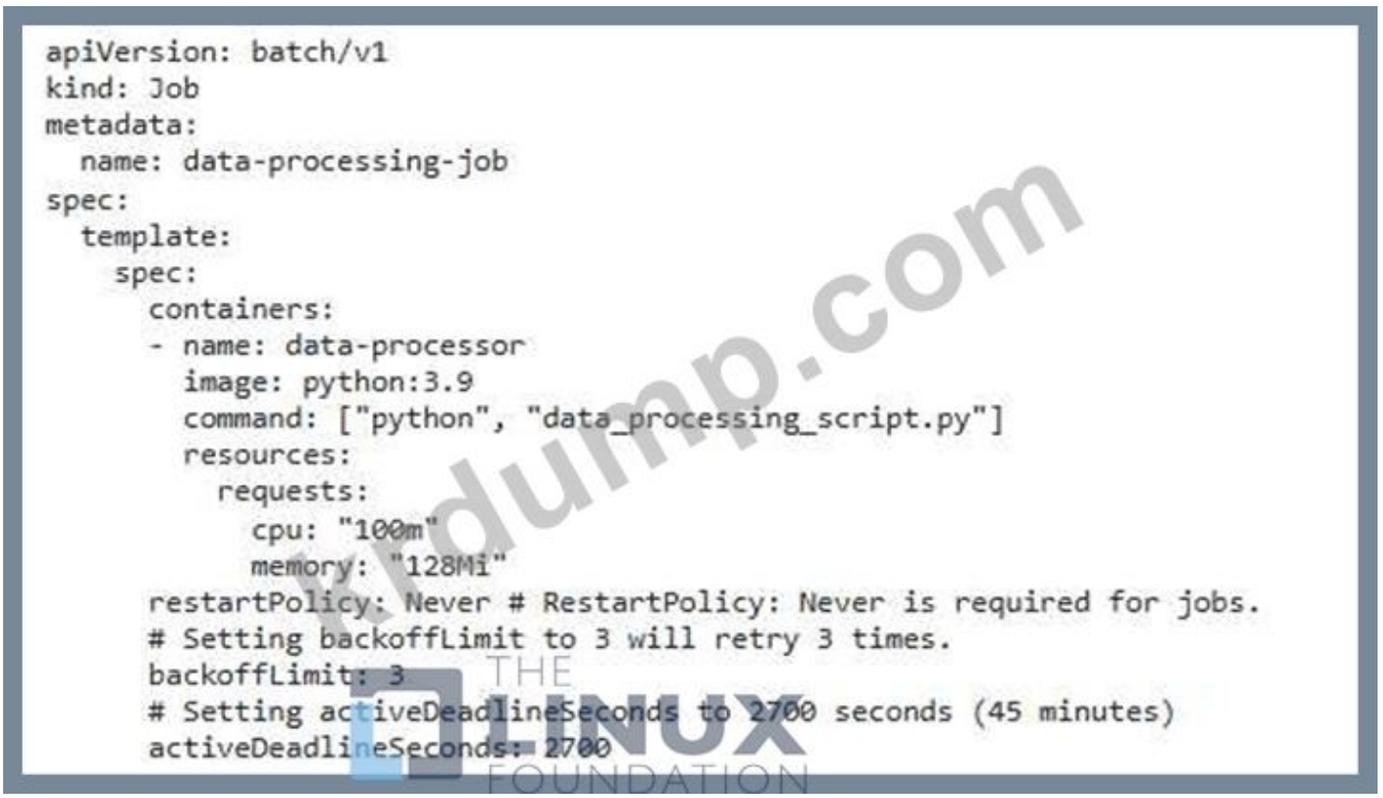
□□:

□□□(□□□) :

1. Job YAML □□□ □□□□.



```
apiVersion: batch/v1
kind: Job
metadata:
  name: data-processing-job
spec:
  template:
    spec:
      containers:
      - name: data-processor
        image: python:3.9
        command: ["python", "data_processing_script.py"]
        resources:
          requests:
            cpu: "100m"
            memory: "128Mi"
      restartPolicy: Never # RestartPolicy: Never is required for jobs.
      # Setting backoffLimit to 3 will retry 3 times.
      backoffLimit: 3
      # Setting activeDeadlineSeconds to 2700 seconds (45 minutes)
      activeDeadlineSeconds: 2700
```


2. Job YAML □□□ □□□□□.bash kubectl apply -f data-processing-job.yaml 3. Job□ □□□ □□□□.bash kubectl get jobs -w □□□ □□ Job□ □□ □□□ □□□ □□(□□ □□)□ □□ □ Job□ □□□ □□□□□.4. Job□ Pod□ □□□□□.bash kubectl get pods -l job-name-data-processing-job 'kubectl logs' □□□ □□□□ Job□□ □□□ POd□ □□□ □□□□ □□□□ □□□ □□□ □ □□□□.- 'backoffLimit: 3': □□ □ Job□ □□ 3□□□ □□□□ □ □□□ □ □□□□.- 'activeDeadlineSeconds: 2700': Job□ □□□□ □□ □□(2700□, 45□)□ □□□□ □. Job□ □ □□ □□□ □□□□ □□□□ □□□□□. - 'restartPolicy: Never: Job□□ □□□ Pod□ □□□□ □□□□□ □□□ □□□. - 'command: ["python", "data_processing_script.py'T: □□□□ □□□□ □□□ □□□ □□□□□. - 'resources-requests': CPU □ □□□□ □□□□ □□□□□ □□ □□□ □□ □□□ □□□□□. - 'resources-limits: □□□□□ □□ □□□ □□ □ □□□□ □ □□□ □ □□□□. □ □□□ □□□ □□ □□□□□ □□□□□ □□□□□. □ □□□ □□ 3□□□ □□□□□, □ □□□ □□□ □□ □□□ □□□□□. Job□ □□□□□ □ □□□ □□□ 45□ □□ □□□□□.

NEW QUESTION: 4

PostgreSQL □□□□□□□ □□□□ Bookstore □□□□□□□ □□□□ 'bookstore-deployment'□□ □□□ □□□□. □ □□□□ 3□□ □□□□ □□□□. □□□□□□ □□□ □ □□□ □□□□□. □ □□□□□□□ □□□ □□ □□□ □□ □□□□ □□□□ □□□ □□ □ □□□□. Pod□ CPU □□□□ □□ □□□ □□ 2□□□ 5□ □□□ □□ □□□□ □□□ □ □□□ □□□. □ □□□ □□ □□ □□ □□□□□ □□□.

Answer:

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1. □□□ Pod □□ □□□(HPA)□ □□□□.
- 'kubectl create hpa' □□□ □□□□ 'bookstore-hpa'□□ HPA□ □□□□□.
- 'minReplicas'□ 2□, 'maxReplic.as'□ 5□ □□□□ □□□ □□□ □□□ □□□□□.
- 'targetCPlJLJtilizationPercentage'□ 70□□ □□□□ □□□ □□ CPU □□□□ 70%□ □□ □ □□□ □□ □□□□□.
- 'bookstore-deployment' □□□ □□□□ □□□□ □□□□□.

```
apiVersion: autoscaling/v2beta2
kind: HorizontalPodAutoscaler
metadata:
  name: bookstore-hpa
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: bookstore-deployment
  minReplicas: 2
  maxReplicas: 5
  metrics:
  - type: Resource
    resource:
      name: cpu
      targetAverageUtilization: 70
```

2. HPA □□: - 'kubectl apply -f bookstore-hpa.yamr'□ □□□□ HPA□ □□□□□. 3. HPA □□: - 'kubectl get hpa bookstore-hpa'□ □□□□ HPA □□□ □□□□□. 4. □□□ □□ □□: - □□ □□□□□□□ □□□ □□ HPA □□□ □□□□□□. - 'kL1bectl get deployments bookstore-deployment'□ □□□□ 'bookstore-deployment'□ □□□ □□ □□□□□□□. □□□ □□ CPL □□□□ □□ □□□□ □□□□ □□ □□□ □ □□□□. 5. □□ □□□□ □□□ □□: - □□ □□□□ □□ □□ □ □□□ □□□ □□ HPA □□□□ 'targetCPLJlJtilizationPercentage', 'minReplicas' □ 'maxReplicaS'□ □□□ □□□ □ □□□□.

NEW QUESTION: 5
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□

kdsn00101 □□□□□□□ □□ □□□ kdsn00101-deployment□□ □□□ □□□□□. □□□ □□ □□□□□.

* □□□ □□□ □□ Pod□ □□□□ □□ Pod □□□ □□□□□□ func=webFrontEnd □/□ □ □□□ □□□□□.

* □□□ 4□ □□

□□□□, kdsn00l01 □□□□□□□ □□□ □□□□ □□□□ □□□□□.

* TCP □□ 8080□□ □□□□ □□□□□.

*□ kdsn00l01-deployment □□□ □□ □□□ □□□ □□□□□.

* NodePort □□□□□.

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Answer:

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NEW QUESTION: 6

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* □/□ □(key1/value4)□ □□□□ another-secret□□□ □□□ □□□ □□□□□.

* □□□□ □□□ nginx□ □□□□ nginx-secret□□□ □□□ nginx pod□ □□□□, pod □□ □ □□ □□ □□□□ COOL_VARIABLE□ □□□□ □□ □ □ 1□ □□ □□□□ □□ □□□ □□□□□.

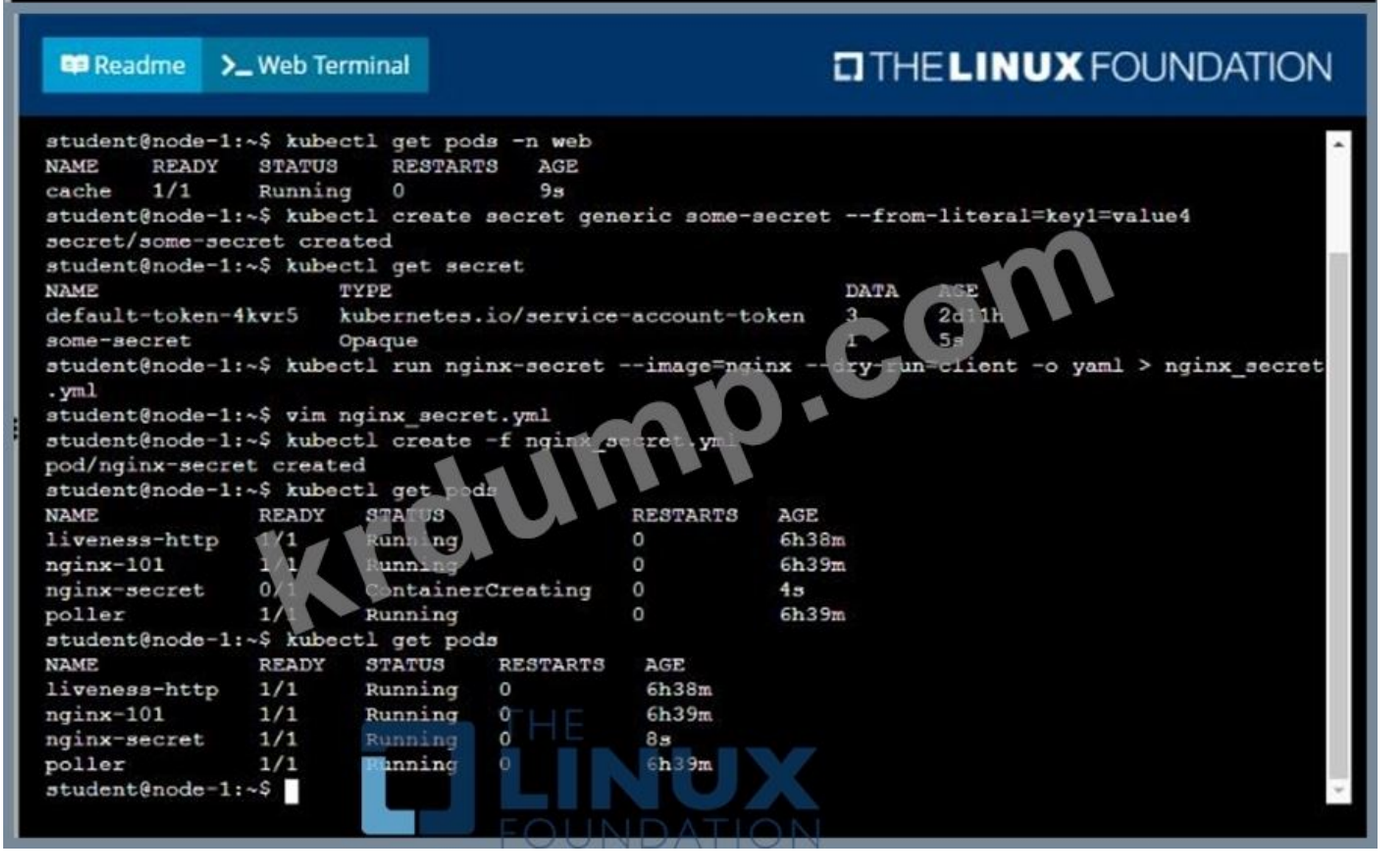
Answer:

□□□:

```
student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME                  TYPE                                  DATA   AGE
default-token-4kvr5   kubernetes.io/service-account-token   3      2d11h
some-secret           Opaque                                1      5s
student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret
.yml
student@node-1:~$ vim nginx_secret.yml
```

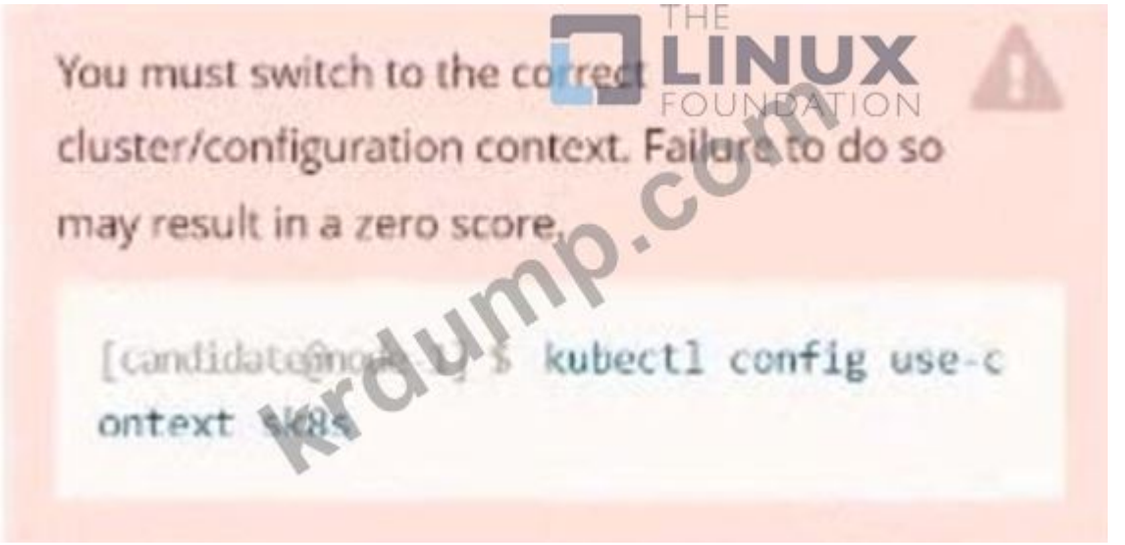
Readme | Web Terminal — THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-secret
  name: nginx-secret
spec:
  containers:
  - image: nginx
    name: nginx-secret
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
~
"nginx_secret.yml" 15L, 253C                                  1,1           All
```



NEW QUESTION: 7

□□



□:

ckad00018 □□□□□□□□ Pod ckad00018-newpod□ □□□□□□ Pod□ Pod □ □ DB□□ □□□□ □□□ □□ □ □□□ NetworkPolicy□ □□□□□.

Answer:

□□□:

```
candidate@node-1:~$ kubectl config use-context nk8s
Switched to context "nk8s".
candidate@node-1:~$ kubectl  describe  netpol -n ckad00018
File  Edit  View  Terminal  Tabs  Help
Name:         all-access
Namespace:    ckad00018
Created on:   2022-09-24 04:27:37 +0000 UTC
Labels:       <none>
Annotations:  <none>
Spec:
  PodSelector:     all-access=true
  Allowing ingress traffic:
    To Port: <any> (traffic allowed to all ports)
    From: <any> (traffic not restricted by source)
  Allowing egress traffic:
    To Port: <any> (traffic allowed to all ports)
    To: <any> (traffic not restricted by destination)
  Policy Types: Ingress, Egress

Name:         default-deny
Namespace:    ckad00018
Created on:   2022-09-24 04:27:37 +0000 UTC
Labels:       <none>
Annotations:  <none>
Spec:
  PodSelector:     <none> (Allowing the specific traffic to all pods in this namespace)
  Allowing ingress traffic:
    <none> (Selected pods are isolated for ingress connectivity)
  Not affecting egress traffic
  Policy Types: Ingress
candidate@node-1:~$ kubectl  label  pod ckad00018-newpod -n ckad00018   web-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl  label  pod ckad00018-newpod -n ckad00018   db-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$
```

NEW QUESTION: 8

□□ □□ □□□□ CPU□ □□□ □□ □□□ □□□□ □□□□□□□ □□□□ □□□□. □ □□□□□□□□ □□□□ □□□□ □□□□ □□□□□ □□ □□□□□ □□□ □□□ □□ □ ResourceQuota□ □□□ □□□□ □□□?

Answer:

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I). ResourceQuota□ □□□□□.

- □□□□□□□ □□□ □□□□□□□ 'resource-limit'□□□ □□□ ResourceQuota □□□ □ □□□.

- CPU□ □□□□ □□ □□ □□ □□□ □□□□ □□□□□□□ □□□ □□□ □□□□□.

- □□ □ □□□□ □□ □□ □□□□ □□ □□□ □□□ □□ □□□□.

```
apiVersion: v1
kind: ResourceQuota
metadata:
  name: resource-limit
spec:
  limits:
    requests.cpu: "2" # Set the maximum CPU request for the application
    requests.memory: "4Gi" # Set the maximum memory request for the application
    pods: "5" # Set the maximum number of Pods allowed for the application
```

2. ResourceQuota□ □□□□□. - 'kubectl apply -f resource-limit.yaml'□ □□□□ ResourceQuota □□□ □□□□□. 3. □□□ □□□ □□□□□□. - □□□ □□□ □□ □□□ □ □□ □□□□ □□□□□□□ □□□□ □□□ □□□. - ResourceQuota□ □□□□□□ □ □□□ □□□ □□□□□.

NEW QUESTION: 9

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□□ □□□□ □□□□ ConfigMap□ □□□□ Pod□□ ConfigMap□ □□□□ □□□ □□□□ □.

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* □/□ □□ □□□□ another-config□□ ConfigMap□ □□□□: key4/value3

* nginx □□□□ □□□□ □□ □□□□□ □□□□ nginx-configmap□□□ □□□ □□□ □□ □□ □□ □□□ □□ /also/a/path □□□□ □□□ □□□ □□□□□□. □□□ □□□□ □□ □□□.

Answer:

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```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME             DATA   AGE
another-config   1      5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
```

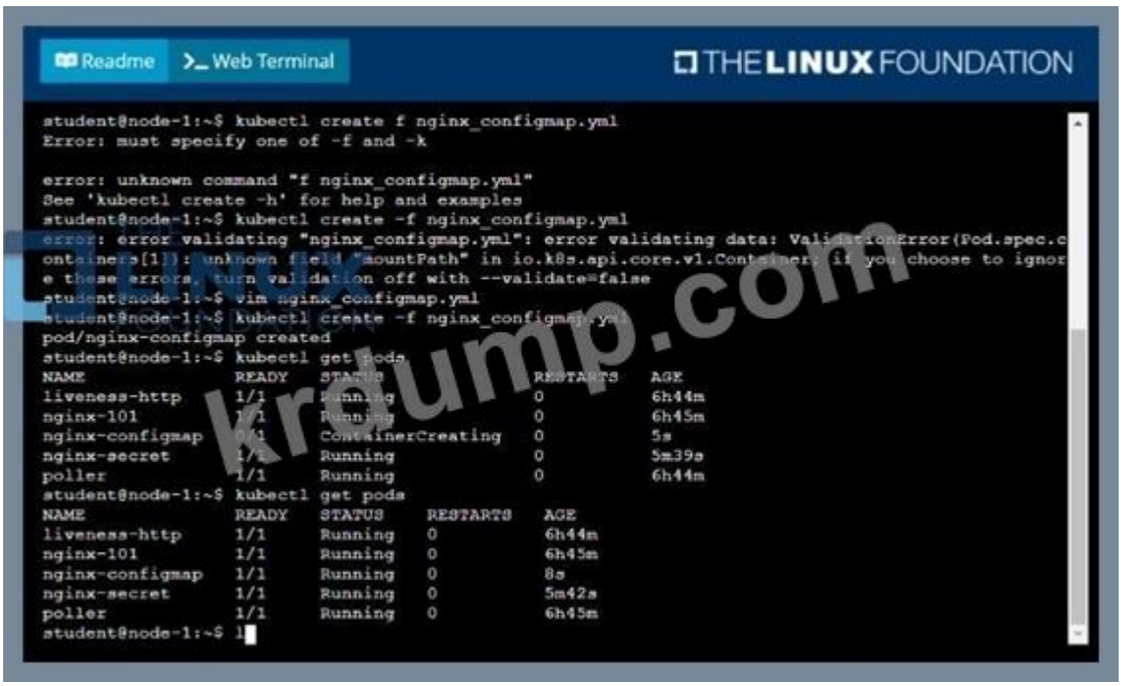
Readme | Web Terminal — THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
"nginx_configmap.yml" 15L, 262C                              1,1           All
```


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-configmap
name: nginx-configmap
spec:
containers:
- image: nginx
name: nginx-configmap
volumeMounts:
- name: myvol
mountPath: /also/a/path
volumes:
- name: myvol
configMap:
name: another-config
13,6
All


student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME DATA AGE
another-config 1 5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$


student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$ kubectl create f nginx_configmap.yml
Error: must specify one of -f and -k
error: unknown command "f nginx_configmap.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yml
error: error validating "nginx_configmap.yml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yml



NEW QUESTION: 10

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* □□ busybox □□□□□□ □□ □ □□□ □□□□ YAML □□□ □□□□□ □□□□ □ /opt/KDPD00301/periodic.yaml□ □□□□□. □ □□□ 1□□□ □□□□□ □□ 22□ □□□ □□□□ □□□ □□□□□□□ □□□□□ □□□. Cronjob □□□ □□□□ □□□ □□ hello □□ □□□.

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Answer:

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NEW QUESTION: 11

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Answer:

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1. □□□ □□□ □□:

- □□□ □□□□ □□ Kubernetes □□□□ □□□□ □□ □□□ □□□□□.
- □□□□ '□□□'□ □□□ □□□ □□□□ □□□□□ □□□□□.

```
apiVersion: v1
kind: Service
metadata:
  name: backend-service
spec:
  selector:
    app: backend
  ports:
  - protocol: TCP
    port: 8080
    targetPort: 8080
```

2. □□□□□ □□□ □□: - □□□□□ □□□□ □□ □□□□□ □□□ □□□□□. - □□□ □□□□ □□□ PON□ □□□□□ □□□□□ □□ □□□ □□□□□. □□□ □□ □□□□□ □□□□ □□□ □□□ □□□ □□□ □ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: frontend-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: frontend
  template:
    metadata:
      labels:
        app: frontend
    spec:
      containers:
      - name: frontend
        image: example/frontend:latest
        env:
        - name: BACKEND_SERVICE_HOST
          valueFrom:
            configMapKeyRef:
              name: backend-service-config
              key: backend-service-host
        - name: BACKEND_SERVICE_PORT
          valueFrom:
            configMapKeyRef:
              name: backend-service-config
              key: backend-service-port
```

3. □□□ □□□ □□□ □□ ConfigMap □□□ - □□□ □□□ □□□□ □□□ □□□□ □□ □ □□□ ConfigMap□ □□□□.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: backend-service-config
data:
  backend-service-host: backend-service
  backend-service-port: "8080"
```

4. □□□ □ ConfigMap □□: - kubectl apply -f□ □□□□ □□□ □□□, □□□□□ □□ □ ConfigMap□ □□ YAML □□□ Kubernetes □□□□□ □□□□□. 5. □□ □□□: - □□□□ □ □□□□ □□□□□(□: LoadBalancer □□ Ingress□ □□) □□□ □□□□ □□□□□ □□ □□□ □□□□□. □□: - □ □□ □□□ ConfigMap□ □□□□ □□□ □□□ □□□ □□□□ □ □□ □□□ □□ □□□□□□ □□□ □ □□□□. - □□□□□ □□□□ □□ □□□ □□ □□□ □□□ □□□ □□□□ □ □□□□ □□ □□□□ □□□□□. - Kubernetes □□□□ □ □□□ □□□□□ □□□□ □□ Pod□ □□ IP □□□ □□□ □□ □□□ □□□ □□□□ □ □□□ □□□ □ □□□□. - □□□□□ □□□□ □□□ □□□ □□ □ □□□ □ □□ □□(□: □□ □□, □□□□ □□)□ □□□□□ □□□□ □□□. □□□ □□□ □□ □□ □: - □□ □ □: LJse Liveness □ Readiness □□□□ □□□□ □□□□ □□□ Pod□ □□□ □□□□ □□ □□□ □□□. - □□□ □□: Consul□□ etcd□ □□ □□ □□□ □□ □□□□□ □□□□ □

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NEW QUESTION: 12

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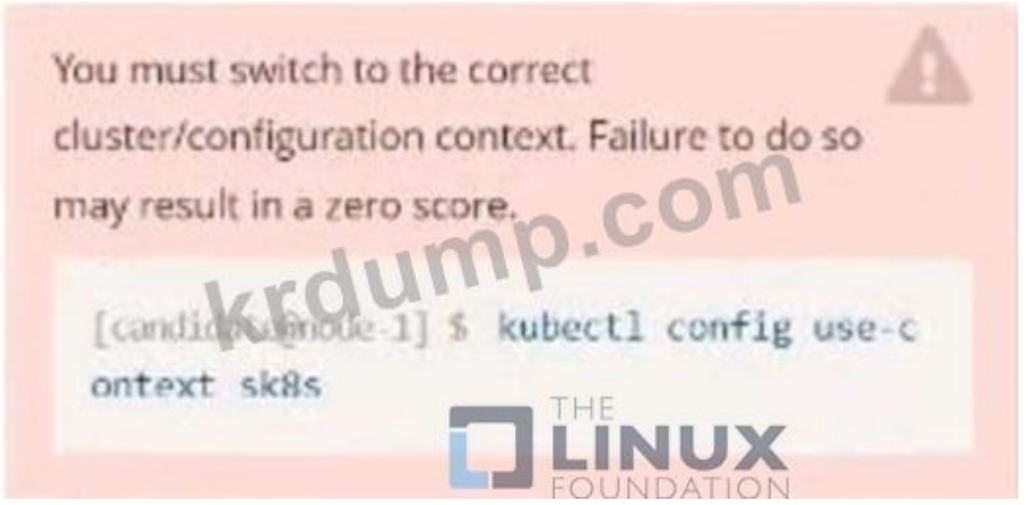

□:

1) □□ ckad00017 □□□□□□□□ Deployment cka00017-deployment□ □□□□□□□.

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*□□□ □□ □□□ □□□□□:

□□ userUI

2) □□□□, ckad00017 nmespace□ cherry□□ □□□ NodePort □□□□ □□□□ TCP □□ 8888□□ ckad00017-deployment □□□ □□□□□.

Answer:

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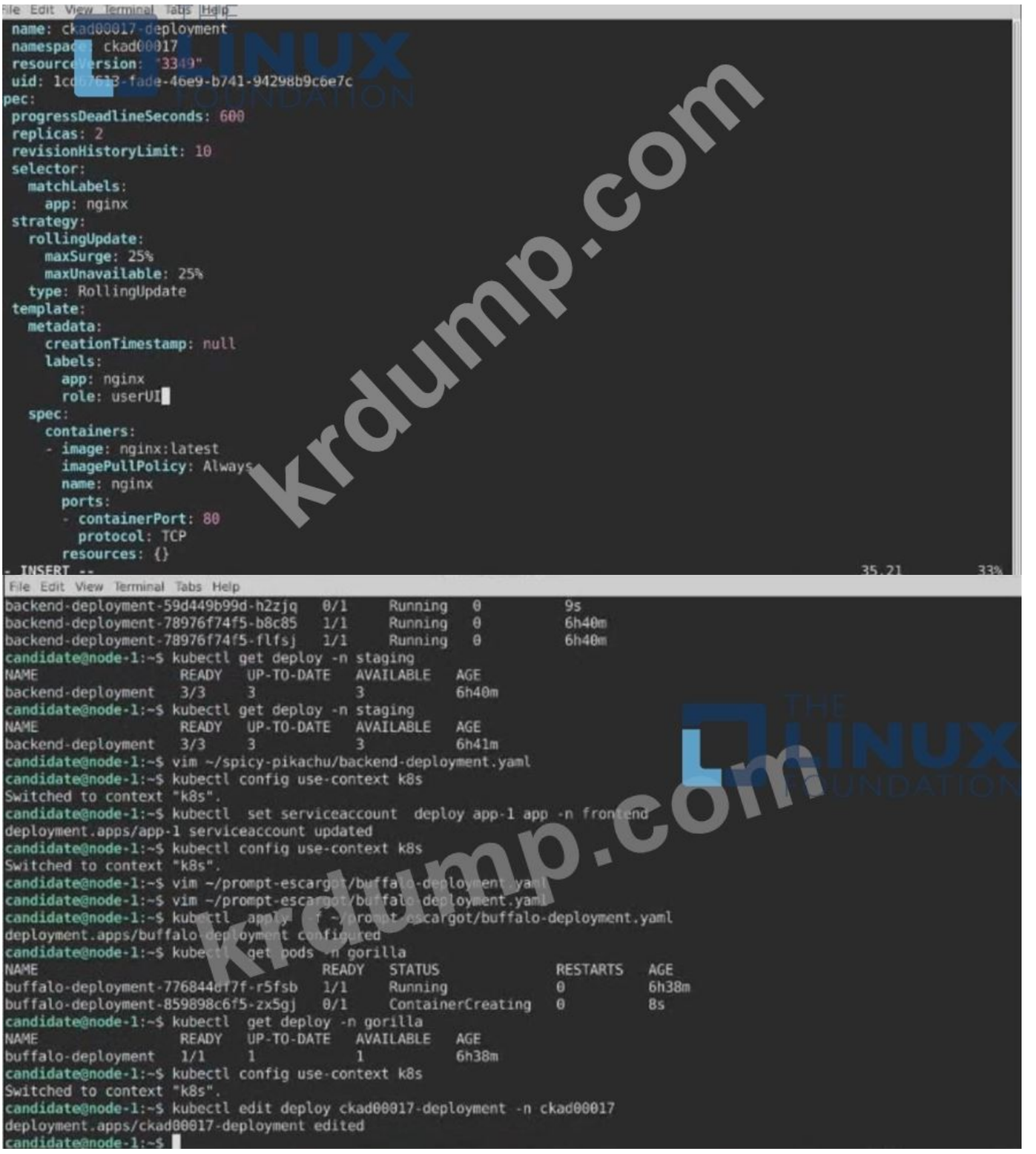
File Edit View Terminal Tabs Help
name: ckad00017-deployment
namespace: ckad00017
resourceVersion: "3349"
uid: 1cc67613-fade-46e9-b741-94298b9c6e7c
spec:
progressDeadlineSeconds: 600
replicas: 2
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 25%
maxUnavailable: 25%
type: RollingUpdate
template:
metadata:
creationTimestamp: null
labels:
app: nginx
role: userUI
spec:
containers:
- image: nginx:latest
imagePullPolicy: Always
name: nginx
ports:
- containerPort: 80
protocol: TCP
resources: {}
-- INSERT --
35,21
33%
File Edit View Terminal Tabs Help
backend-deployment-59d449b99d-h2zjq 0/1 Running 0 9s
backend-deployment-78976f74f5-b8c85 1/1 Running 0 6h40m
backend-deployment-78976f74f5-flfsj 1/1 Running 0 6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME READY UP-TO-DATE AVAILABLE AGE
backend-deployment 3/3 3 3 6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME READY UP-TO-DATE AVAILABLE AGE
backend-deployment 3/3 3 3 6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl set serviceaccount deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/prompt-escargot/buffalo-deployment.yaml
deployment.apps/buffalo-deployment configured
candidate@node-1:~$ kubectl get pods -n gorilla
NAME READY STATUS RESTARTS AGE
buffalo-deployment-776844d7f-r5fsb 1/1 Running 0 6h38m
buffalo-deployment-859898c6f5-zx5gj 0/1 ContainerCreating 0 8s
candidate@node-1:~$ kubectl get deploy -n gorilla
NAME READY UP-TO-DATE AVAILABLE AGE
buffalo-deployment 1/1 1 1 6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$

```
candidate@node-1:~$ kubectl  get pods -n gorilla
NAME                               READY   STATUS              RESTARTS   AGE
buffalo-deployment-776844df7f-r5fsb   1/1     Running             0          6h38m
buffalo-deployment-859898c6f5-zx5gj   0/1     ContainerCreating   0          8s
candidate@node-1:~$ kubectl  get deploy -n gorilla
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment   1/1     1            1           6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
service/cherry exposed
candidate@node-1:~$
```

```
candidate@node-1:~$ kubectl get svc
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   77d
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   24s
candidate@node-1:~$ kubectl  expose  service  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
odePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
candidate@node-1:~$
```

```
candidate@node-1:~$ kubectl  expose  service  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
odePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
candidate@node-1:~$ history
    1  vi ~/spicy-pikachu/backend-deployment.yaml
    2  kubectl config use-context sk8s
    3  vim .vimrc
    4  vim ~/spicy-pikachu/backend-deployment.yaml
    5  kubectl  apply  -f ~/spicy-pikachu/backend-deployment.yaml
    6  kubectl get  pods -n staging
    7  kubectl get deploy -n staging
    8  vim ~/spicy-pikachu/backend-deployment.yaml
    9  kubectl config use-context k8s
   10  kubectl  set serviceaccount  deploy app-1 app -n frontend
   11  kubectl config use-context k8s
   12  vim ~/prompt-escargot/buffalo-deployment.yaml
   13  kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
   14  kubectl  get pods -n gorilla
   15  kubectl  get deploy -n gorilla
   16  kubectl config use-context k8s
   17  kubectl edit deploy ckad00017-deployment -n ckad00017
   18  kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
   19  kubectl get svc
   20  kubectl get svc  -n ckad00017
   21  kubectl  expose  service  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
   22  kubectl get svc  -n ckad00017
   23  history
candidate@node-1:~$
```

NEW QUESTION: 13
Kubernetes □□□□ □ □□ □□□□□ □□ □□□ □□ TLS □□□□ □□□ □□□□□□□ □□□□. □□□□ □□ □□ □□□□ Kubernetes □□□□ □□□ □ □□□□ □□ □□□□ □ □□□□□ □□□ □□ □□□?
Answer:
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□□:
□□□(□□□) :
1. □□□□ □ □□:
- □□□□ □□ □□ □□ □□□ 'openssl'□ □□ □□□ □□□□ □□□ □ □□□□.
□□ □□□
openssl req -x509 -newkey rsa:2048 -keyout □□ □ -out cert.pem -days 365 -nodes
- □□□ □□ 'private-key'(□□ □)□ 'cert.pern'(□□□)□□□ □ □□ □□□ □□□□□.
2. Kubernetes Secret□ □□□□□.
- 'tls-secret.yaml'□ □□ YAML □□□ □□□□.

```
apiVersion: v1
kind: Secret
metadata:
  name: tls-secret
type: TLS
data:
  tls.crt:
  tls.key:
```

- □ □ Base64□ □□□□ □□□ □ □ □□□ □□□□ □□□□. □□□□□ 'base64' □□□ □□□ □ □□□□. bash echo "certificate content" | base64 echo "private key content" | base64
3. □□ □□: - □□□□□ □□□□□ □□□ □□□□□. bash kubectl apply -f tls-secret.yaml 4. □□ □□: - □□ YAML □□□ □□□ □□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  template:
    spec:
      containers:
      - name: my-app
        image: your-image:latest
        volumeMounts:
        - name: tls-secret-volume
          mountPath: /var/secrets/tls
      volumes:
        - name: tls-secret-volume
          secret:
            secretName: tls-secret
```

5. □□□□□□ □□□□: - □□□□□□□ □□□□□ □□□□ TLS □□□□ □□ □□□□□ □□□□□ □□□. □□□□ □□□ □□□□□□□ □□ □□□□. - □□□□□ □□□ □ □ □ □□ □□□ □□□□ □□ □□(□: 'TLS_CERT_FILE' □ 'TLS_KEY_FILE')□ □□□□□.

NEW QUESTION: 14

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Answer:

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1. CronJob □□□ □□: □□□□□□□ □□ □□ □□ □□□ □□□□ CronJob □□□□ □□ □□□. □ □□□□ □□□ □□□ □□□ □□□□□ □□□ □□□.

```
apiVersion: batch/v1
kind: CronJob
metadata:
  name: daily-report-generator
spec:
  schedule: "0 0   " # Runs at midnight every day
  jobTemplate:
    spec:
      template:
        spec:
          containers:
          - name: report-generator
            image: your-image-repository:latest
            command: ["/bin/bash", "-c", "python /app/report_generator.py"]
          restartPolicy: OnFailure # Restart the pod if the job fails
```

2. JOb □□□ □□: □□ □□□ □□ □□□ □□□□ □□□□ □□□ □□□□ JOb □□□□ □□□□□. □ JOD□ CronJob□ □□ □□□□□□.

```
apiVersion: batch/v1
kind: Job
metadata:
  name: daily-report-generator-job
spec:
  template:
    spec:
      containers:
      - name: report-generator
        image: your-image-repository:latest
        command: ["/bin/bash", "-c", "python /app/report_generator.py"]
      restartPolicy: OnFailure # Restart the pod if the job fails
```

3. □□□ □□ □□ □□: □□ □□□□□ □□□ □□□□ □□□□ □□□ □□□ □□□ □□ (CPU, □□□)□ □□□□□. 4. □□ □□ □□: Python □□□□□□ □□□ □□ □□□ □□□ □□. □□□ □□□□ □□□□ Elasticsearch□ □□ □□ □□□□ □□□□□. 5. □□ □□□ □ □□□: 'kubectl get jobs' □□ kubectl get pods -l job-name=daily-report-generator-job'□ □□ □□□ □□□□ □□ □□□ □□□□□□□. □□□□ □□□ □□□□□□□. 6. □□/□□□ □□□□ □□: □□□ □□□□ □□ □□ □□□ □□□□□ □□□ □ □□□□. □□□ 'spec'□ 'backoffLimit' □□□ □□□□ □□ □□□□ □□□ □□□□ □ □□□□. 7. □□ □□: □□□ □□□□ □□ □□□ □□□ □ □□□ □□ □□(□: □□ □□, □□□□ □□□□)□ □ □□□ □□□. □□ □□ □□: 7. □□ □□: □□□ □□□□ □□ □□□ □□□ □ □□□ □□

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(report_generator.py): python import datetime import logging level logging

```
logging.basicConfig(filename='report.log', level=logging.INFO)

def generate_report():
# Logic to generate the report
report_data = "This is the daily report"
with open("report.txt", "w") as file:
file.write(report_data)

if __name__ == "__main__":
try:
generate_report()
logging.info(f"Report generated successfully at {datetime.datetime.now()}")
except Exception as e:
logging.error(f"Error generating report: {e}")
```


NEW QUESTION: 15

'wordpress-deployment'□□ □□□ □□□ □□□, □ □□□ 'wordpress:latest' □□□□ □□□ □ Wordpress □□□□□ □□□ 3□□ □□□□□. □ □□□□ Docker Hub □□□ 'my-wordpress-repo/wordpressaatest'□ □□□□ □□□ □ □□□□ □□□□□ □□□□ □□□□ □□□ □□ □□□. □□, □ □□ □□□ Pod□ □□□□□□ □□ □□□□ □□□ □□□□ □ □□. □□ □□□ □□□ □ □□ Pod□ □□ □□□ 1□□□ □□□.

Answer:

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1. □□ YAML□ □□□□□□□.

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- □□ □□□□ □□□ □□□□□□ 'strategy-type: Rollingupdate'□ □□□□□.
- □□□□ □□□□ □□ □ □□□ Pod□ □□□ □ □□□ 'strategy.rollingupdate.maxonavailable: I'□ □□□□□.
- 'strategy-rollingUpdate.maxSurge: O'□ □□□□ □□□□ □□ □□□□ Pod □□ 0□□ □□ □□□.

NEW QUESTION: 16

Flask □□□□□□□ □□□□ 'my-app-deployment'□□ □□□ □□□□. □□□□ □□ □□□ Pod□ □□□ □ □□□ □□ □□□□ □□□ □□□□ □□□. □□ Docker Hub □□□□ □ □ □□□ □□□ □□□ □□ □□□□□ □□□□□□ □□□. □□, □□□□ □□□□ □□ □□

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Answer:

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1. □□ □□□□□ □□ □□:

- 'my-app-deployment' □□ □□□ □□□□□□ □□□ □□□□□.
- 'replicas': □□ 1□□ □□□ □ □□ Pod□ □□ □□□□□ □□□□□ 2□ □□□□□.
- 'maxUnavailable: 1': □□ □□□□ □□ □□ 1□□ Pod□ □□□ □ □□□ □□□□□.
- 'maxSurge: 0': □□ □□□ □□□□ □□□ □□□ □□□ □□□□ □□□ □□□□□.
- 'imagePullPolicy: Always': □□□ □□ □□□ □□□□□ □□ □□□□ □□□□ □□□.
- 'strategy.type: RollingUpdate': □□ □□□□ □□□ □□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-app-image:latest
        imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 0
```


2. □□ □□ □□: - □□□□□ YAML □□□ □□□□□ □□□□□. 'kubectl apply -f my-app-deployment.yamr' 3. □□□□□□ □□ □□: - Flask □□□□□□□ □□□ □□□□□□□ 'kubectl logs'□ □□ □□□ Fluentd □□ ElasticSearch□ □□ □□ □□ □□□□ □□□□□. - 'kubectl logs'□ □□□ □ bash kubectl logs -f my-app-deployment-pod-name - □□ □□□□ □ □ □□□ □□□ □□□ □□□ □□□ □□□□ □□□ □□□ □□□□□. 4. □□ □□□□ □ □□: - □□□□□ □□□ □ □□□□ 'my-app-image:latest' Docker Hub □□□□ □□□□□. 5. □□ □□□□: - □□ □□□□ □□ 'kubectl get pods -l app=my-app'□ □□□□ □□□ □□□ □□□□. 6. □□ □□ □□: - 'kubectl describe deployment my-app-deployment'□ □□□□ □□ □□□ □□□□□. 'updatedReplicas' □□□ 'replicas' □□□ □□□□ □□, □□ □□□□□ □ □□□□ □□□□□.

NEW QUESTION: 17
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Answer:
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□□:
□□□(□□□) :
1. □□□ □□ □□□ □□□□.
□□ :
- □□.yaml
2. deployment-yaml □□□ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: example/nginx:v1
        resources:
          requests:
            cpu: "50m"
            memory: "100Mi"
        livenessProbe:
          httpGet:
            path: /healthz
            port: 80
          initialDelaySeconds: 15
          periodSeconds: 20
        readinessProbe:
          httpGet:
            path: /healthz
            port: 80
          initialDelaySeconds: 5
          periodSeconds: 10
      imagePullSecrets:
        - name: myregistrykey
```


3. □□ □□□□ □□□ □□□□□. - 'deployment.yamr' □□□ □□□□ 'spec-strategy' □□□ □□□ □□□□□.

```
strategy:
  type: RollingUpdate
  rollingUpdate:
    maxSurge: 1
    maxUnavailable: 1
```

4. Prometheus□ Grafana□ □□□□□ □□□□□. - Kubernetes □□□□□ Prometheus□ Grafana□ □□□□□. - Prometheus□ □□□□□□ □□□□ □□□□ □□□□□□□ □□□ □□. - Grafana □□□□□ □□□ □□ □□□□ □□□□□□. 5. Prometheus□□ □□□ □□ □□. - □□□□□□□ □□□ □□ □□□ □□ □□□□□ □□□ □□□□□. - □ □□□ □□ □□□ □□□□ □□□□ □□□. 6. □□ □□□□□ □□□□. - □□ □□□ □□□□□ 'oubect1 rollout undo'□ □□ □□□□□ □□□ □□□□ □□□ □□ □□□□ □□□□□. 7. □ □□□ □□□ □□□ □□□□□□□. - 'deployment-yamp' □□□ □□□□ 'image'□ 'example/nginx:v2'□ □□□□□. 8. Kubernetes □□□□□ □□ □□□ □□□□□. bash oubect1 apply -f deployment-yaml - 'rollinglJpdate' □□□ 'maxSurge' □ 'maxunavailable' □□□ □□□□ □□□□ □□ □□□□□ □□□ □ □□ □□ □□ □□ □□□□□. - Prometheus□ Grafana□ □□□□□□□ □□ □□□ □□□□□□ □□□ □□□□□. - Prometheus □□□ □□□□ □□□□ □□ □□□ □□ □□□□□ □□□□ □ □□□ □□□. - □□ □□□□□ □ □□□ □□ □□□ □□□□ □□ □□ □□□□ □□□ □ □□□□. - □ □□□ □□□□ □□ □□ □□□□□ □□□□ □□□□ □□ □□□ □□□□ □□□□□ □□□□□.

NEW QUESTION: 18
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Kubernetes □□□□□□ □□□□□ □□ □□ □□□□□□□ □□□□□□ □□ □□□ □□ □□.
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* kdpd00202 □□□□□□□□ □ □□□ maxSurge□ 5%, maxUnavailable□ 2%□ □□□□□ □□.
* lfccncf/ngmx □□□ □□□ 1.13□□ □□□□ web1 □□□ □□ □□□□□ □□□□□.
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Answer:

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NEW QUESTION: 19

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Answer:

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1. ConfigMap □□□: □□□ □□ □□□ ConfigMap□ □□□□□.

2. □□ □□□□: □□ YAML □□□ □□□□ □□□ □□□□□. - 'volumeMount'□ □□□□ ConfigMap□ □□□□□ □□□□□□. - 'app-config' ConfigMap□ □□□□ 'configMap' □□□

□□□□ 'volume'□ □□□□□. - 'imagePullPolicy: Always'□ □□□□ □□□ □□ □□ □□□ □ □□□□ □□□□□ □□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: web-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: web-app
  template:
    metadata:
      labels:
        app: web-app
    spec:
      containers:
      - name: web-app
        image: your-image-name:latest
        imagePullPolicy: Always
        envFrom:
        - configMapRef:
            name: app-config
        volumeMounts:
        - name: app-config-volume
          mountPath: "/etc/config"
      volumes:
      - name: app-config-volume
        configMap:
          name: app-config
```


3. □□ □□ □□: 'kubectl apply -f deployment-yamp'□ □□□□ □□□ □□□□□□□. 4. ConfigMap □□□□: □□□ □□□□□□ □ □□□ 'kubectl apply -f configmap-yamr'□ □□□ □ SAP-config□ ConfigMap□ □□□□□. 5. □□ □□ □□: 'web-app' □□□ □□ □□□ □□ □□□. □□□ □□□□ □□□□□ □□□□□ ConfigMap□□ □ □□ □□□ □□□□ □□□. 'imagePullPolicy: AlwayS'□ □□□□ □□□ □□ □□ □□□□ □□□□ □□□□□. □□□ □ □ □□□ □□□□□ □□ □□ □□□ □□□□□. □□ 'volumeMount' □ 'volumedefinitions'□ SAP-config□ ConfigMap□ □□□□□ 'letc/config' □□□□□ □□□□□ □□□□ □□□ □□ □□□ □□□□ □ □□□ □□□. ConfigMap□ □□□□□□ □□□ □□ □□□ □□□□ □□ □□ □□□□□ □□□□□ ConfigMap□□ □ □□□ □□□□□.

NEW QUESTION: 20
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□□ □□□□□ □□□□ running.nginx□ □□ □□□ □□□ □□□□.

* kdpd00201 □□□□□□□□ □□□ □□□□□. □□□□□□□ □□ □□□□ □□□□.

* □□ □□□□□□ □□□ □□□□ 4□□ □□□□□ □□□□□.

* lfccncf/nginx:1.13.7 □□□□ □□□□ □□□ □□□□□.

* NGINX__PORT=8080 □□ □□□ □□□□ □ □□□□□ □□ □□ □□□ □□□□□.

Answer:

□□□:


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: api
name: api
namespace: kdpd00201
spec:
replicas: 4
selector:
matchLabels:
app: api
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
app: api
spec:
containers:
- image: lfccncf/nginx:1.13.7-alpine
name: nginx
resources: {}
status: {}
~
"nginx_deployment.yml" 25L, 421C
4,1
All
krdump.com


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
labels:
app: api
name: api
namespace: kdpd00201
spec:
replicas: 4
selector:
matchLabels:
app: api
template:
metadata:
labels:
app: api
spec:
containers:
- image: lfccncf/nginx:1.13.7-alpine
name: nginx
ports:
- containerPort: 8080
env:
- name: NGINX_PORT
value: "8080"
~
23,8
All
krdump.com

NEW QUESTION: 21

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Answer:

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□□□(□□□) :

1. □□□ □□□ □□:

- □□□ □□□□ □□□□□ □ YAML □□(□: 'resource-quota.yaml')□ □□□□.
- □□□ □□□□ □□□ □□□ □□□□□□□ □□□□□.
- □□□□ □□ □□□ □□□ □□□□□. □□ □□ CPU, □□□, Pod, □□□ □□ □□ □□□ □□□ □ □□□□.

```yaml
apiVersion: v1
kind: ResourceQuota
metadata:
  name: resource-quota
  namespace: your-namespace
spec:
  limits:
    requests.cpu: "2"
    requests.memory: "4Gi"
    pods: "10"
    services: "5"
```

2. □□□ □□□ □□: - □□ □□□ □□□□ □□□□□ □□□ □□□□ □□□□□. bash kubectl apply -f resource-quota.yaml 3. □□□ □□□ □□: - "kubectl get resourcequota" □□□ □□□□ □□□ □□□ □□□□ □□□□ □□□ □□□□□. 4. □□□ □□□ □□□□ □□□ □□□ □□: - □□□□□□□ □□□ □ □□ YAML □□□ □□□ □□ □ □□□ □□□□ □□ □. - □□□ □□ □□□□ □□ □□□ □□□ □□□ □□□□ □ □□□ □□□.

```yaml
kind: Deployment
metadata:
  name: resource-intensive-app
spec:
  replicas: 2
  template:
    spec:
      containers:
      - name: resource-intensive-app
        image: example/resource-intensive-app:latest
        resources:
          requests:
            cpu: "1"
            memory: "2Gi"
          limits:
            cpu: "1.5"
            memory: "3Gi"
```

5. □□□ □□□ □□□□: - □□□□ □□(□: Prometheus, Grafana)□ □□□□ □□□□□□ □ □□□ □□□□ □□□□ □□□□□□□ □□□□ □□□ □□□ □□ □□ □□□ □□□□ □.

NEW QUESTION: 22

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Answer:

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□□:
□□□(□□□) :
1. EmptyDir □□□□ □□□ □□□□.
- □□ YAML□□ 'EmptyDirs □□'□ □□□□□.
- □□□□ □□□ □□ □□□ □□□ □□□□□.
- □:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app-container
        image: my-app-image:latest
        volumeMounts:
        - name: my-data
          mountPath: /data
      volumes:
      - name: my-data
        emptyDir: {}
```


2. □□ □□□: - 'kubectl apply -f my-app-deployment-yamr'□ □□□□ □□ YAML□ □□□□ □. 3. □□ □□□□ - 'kubectl get deployments my-app'□ □□□□ □□ □□□ □□□□□. - Pod□ □□ □□□ EmptyDir □□□ □□□□ □□□ □□□□□. 4. □□ □□□ □□ □□□: - □□□□ □□ 'Aldata' □□□□□ □□□□ □□□. - Pod□ □□□□□. - □□□ □□□□ □ Pod□ □□□□. - 'data' □□□□□ □□□ □□□□ □□□ □□□□□ Pod□ □□□□ □□□ □□ □ Pod□ □ □□ □□□□ □□□□.

NEW QUESTION: 23

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* □□□ YAMLspec □□ /opt/KDOB00201/counter.yaml□ □□□□ □□□□□ □□□ □□□ □□□□□.

* □□ □□ Pod□□ □□ □□ □□□ □□ □□□□□□ □□□ □□□□ □□□ □□□□□.

□□ □□□ /opt/KDOB0020l/log_Output.txt

Answer:

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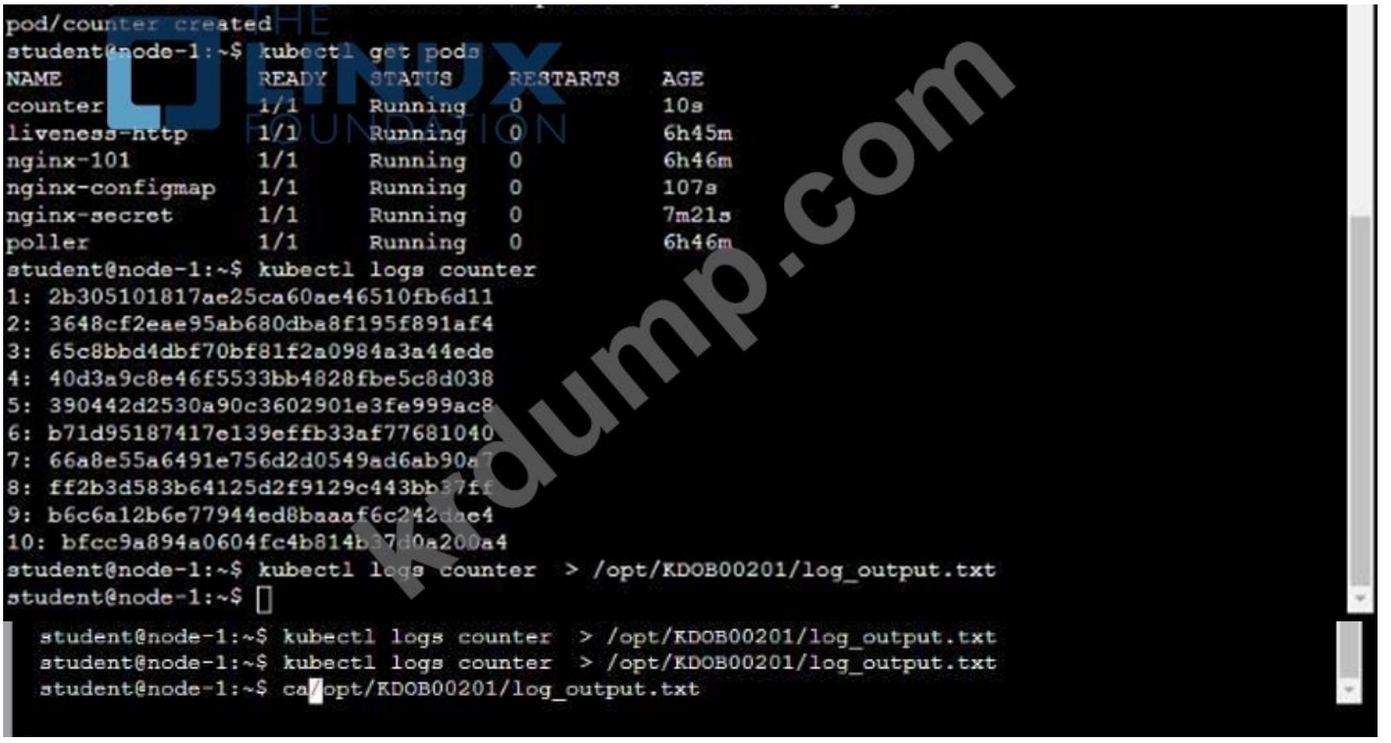
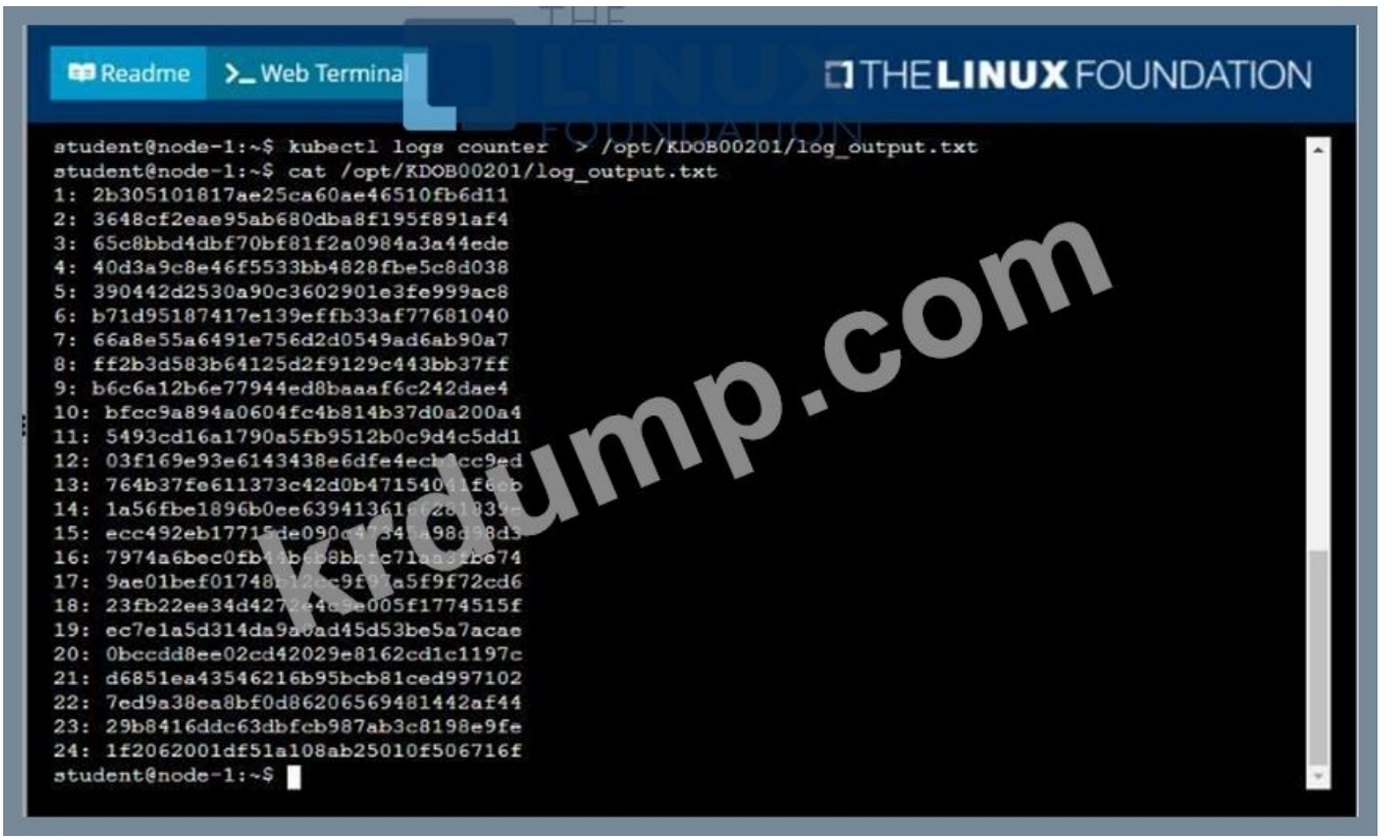
□□□:





NEW QUESTION: 24

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Answer:

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□□:

□□□(□□□) :

1. □□□ □□□ □□:

- □ □□□□□ □□ □□□ Kubernetes □□□□ StatefulSet□□□.

- StatefulSet□ □ Pod□ □□□ □□□□ ID□ □□ □□□□ □□□□ □□ □□ □□□□□□ □ □□□□□□. □□ □ □□ □□□ □□□ □□ Pod□ □□ □□ □□□ □□□ □□□□ □□ □□□ □□□□□.

2. □□ □□

```yaml
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: user-profile-app
spec:
  serviceName: user-profile-service
  replicas: 3
  selector:
    matchLabels:
      app: user-profile-app
  template:
    metadata:
      labels:
        app: user-profile-app
    spec:
      containers:
      - name: user-profile-container
        image: your-image-registry/user-profile-app:latest
        ports:
        - containerPort: 8080
        volumeMounts:
        - name: user-data
          mountPath: /data
      volumes:
      - name: user-data
        persistentVolumeClaim:
          claimName: user-data-pvc
---
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: user-data-pvc
spec:
  accessModes:
  - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
```


- StatefulSet □□: "user-profile-app"□□□ □□□ StatefulSet□ □□□□, □□□ □□ 3□□ □ □□□, "app: user-profile-app"□□□ □□□□ □□ □□□ □□□□ □□□□ □□□□□. - □ □□ □□: □□ 8080□□ □□□□□□□ □□□□ "user-profile-service"□□ □□□□ □□□□ □. - □□□: □ □□□□ □□ □□ □□□□ □□□□□. - □□□□: □□□ □□□□ □□ □□ □□ □□□, □□ □□ □ □□ □□□□ □□□□□. - □□ □□□: □□□□ □□□ 'ldata' □□ □□□ □□ □□ □□□ "user-data"□ □□□□□□. - □□: "user-data-pvc"□□ □□□ PersistentVolumeClaim□ □□□ □□ □□ □□□ "user-data"□ □□□□□. - PersistentVolumeClaim: 1Gi □□□□□ □□ □□ □□□ □□□□ □□ "user-data-pvc"□□ □ □□ PersistentVolumeClaim□ □□□□□. - 4. □□ □□: - kubectl apply -f user-profile-app.yamr □ □□□□ PersistentVolumeClaim(PVC)□ □□□□□. - 'kuactl apply -f user-profile-

app.yaml'□ □□□□ StatefulSet□ □□□□□. - □□□ □□ "user-profile-service"□ □□ □□ □□□□□ □□□□□□. □ □□□ □□ □ □□ □□□□□ □□□ □□□□ □□□□ □□□ □ □□□□ □ □□ □□□ □□□□□□□ □□□□□.]

NEW QUESTION: 25
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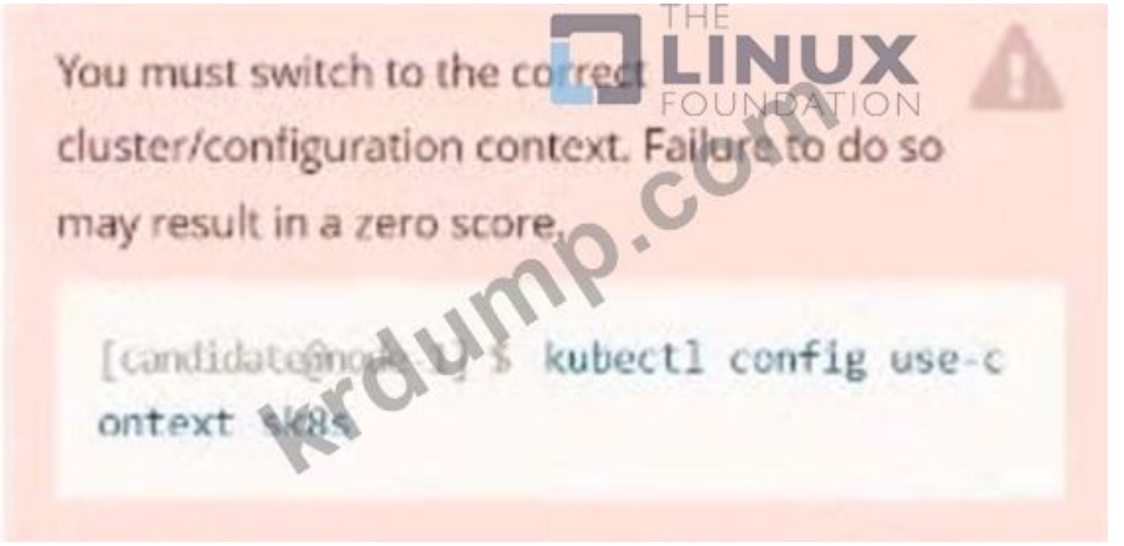
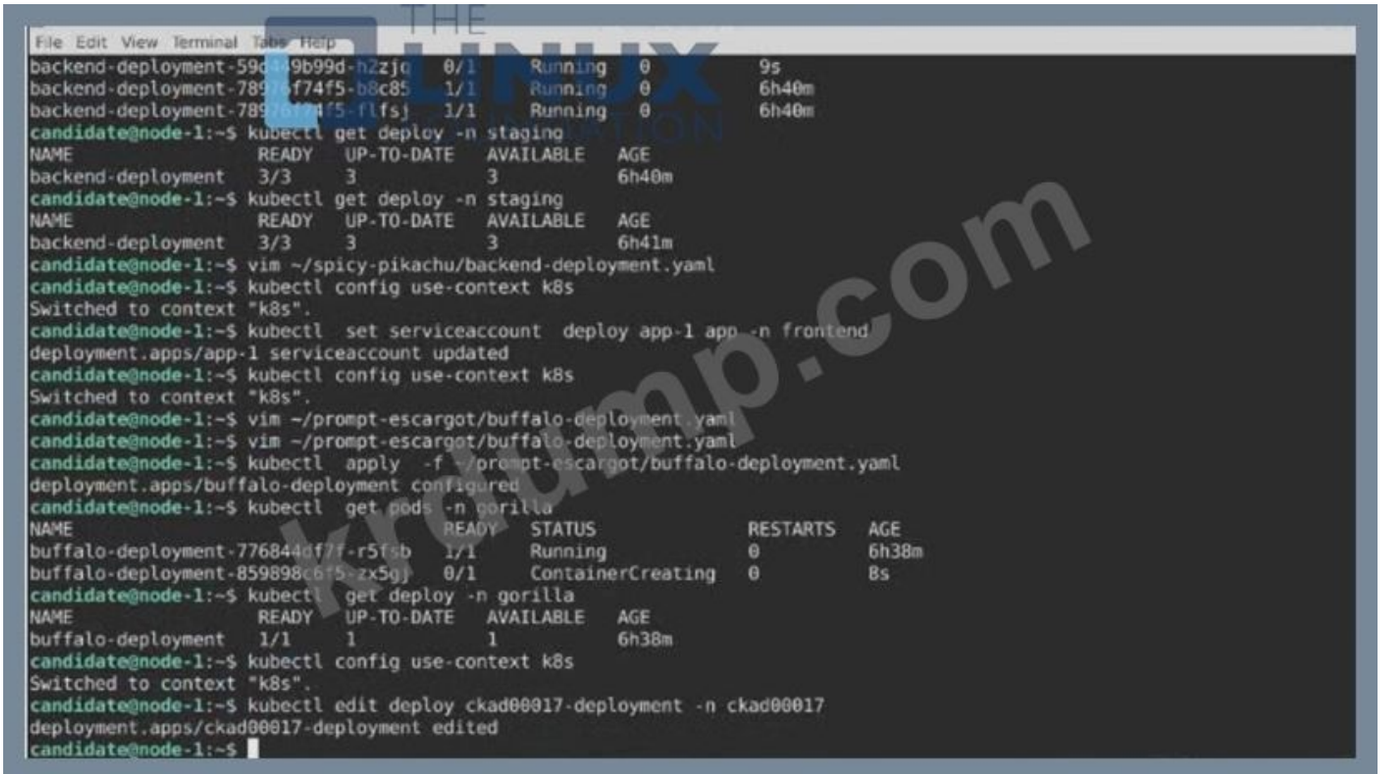


□:
1) □□ ckad00017 □□□□□□□□ Deployment cka00017-deployment□ □□□□□□.
□□□ □□□ 2□□ □□□□□
□□□ □□ □□□ □□□□□:
□□ userUI
2) □□□□, ckad00017 nmespace□ cherry□□ □□□ NodePort □□□□ □□□□ TCP □□ 8888□□ ckad00017-deployment □□□ □□□□□.
Answer:
□□□:

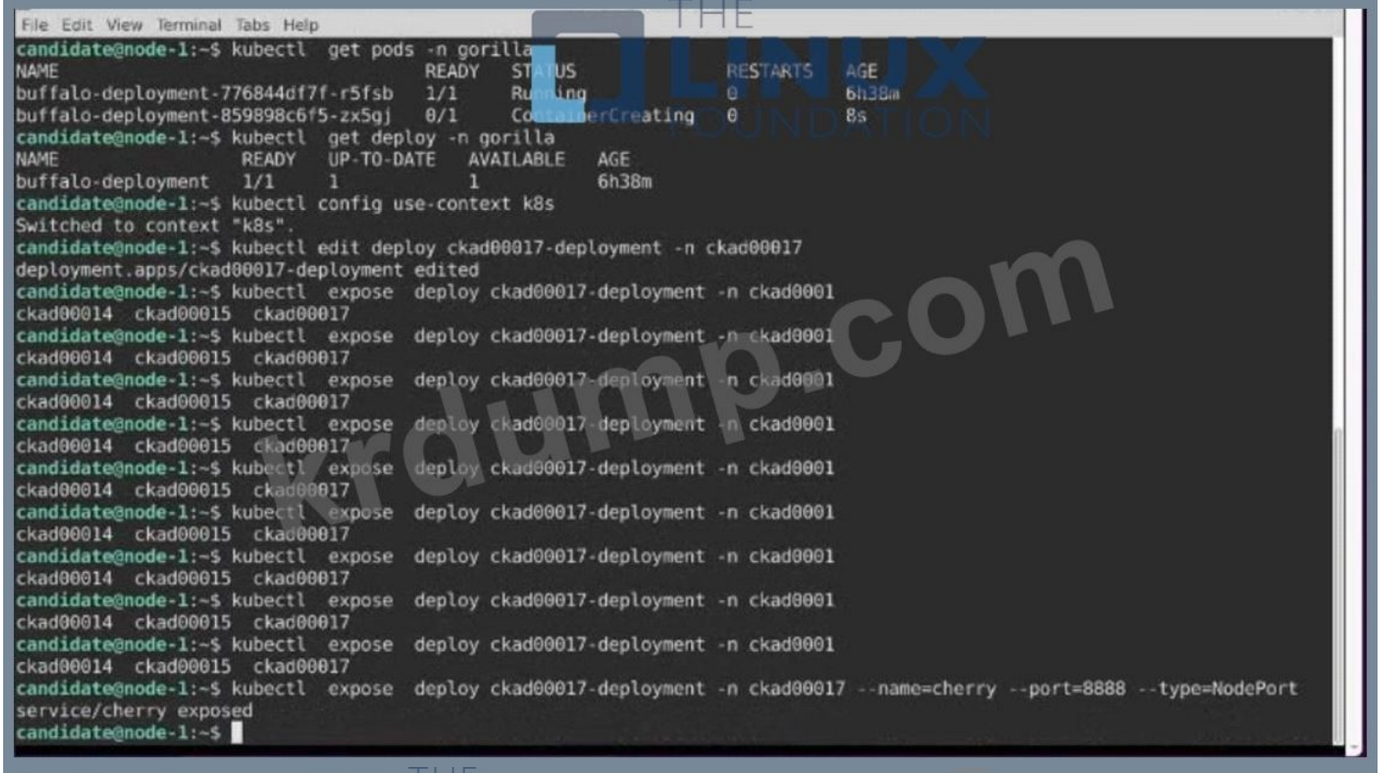
```
File  Edit  View  Terminal  Tabs  Help
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2022-09-24T04:27:03Z"
  generation: 1
  labels:
    app: nginx
  name: ckad00017-deployment
  namespace: ckad00017
  resourceVersion: "3349"
  uid: 1cd67613-fade-46e9-b741-94298b9c6e7c
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
-- INSERT --                                                    33,14         5%
```



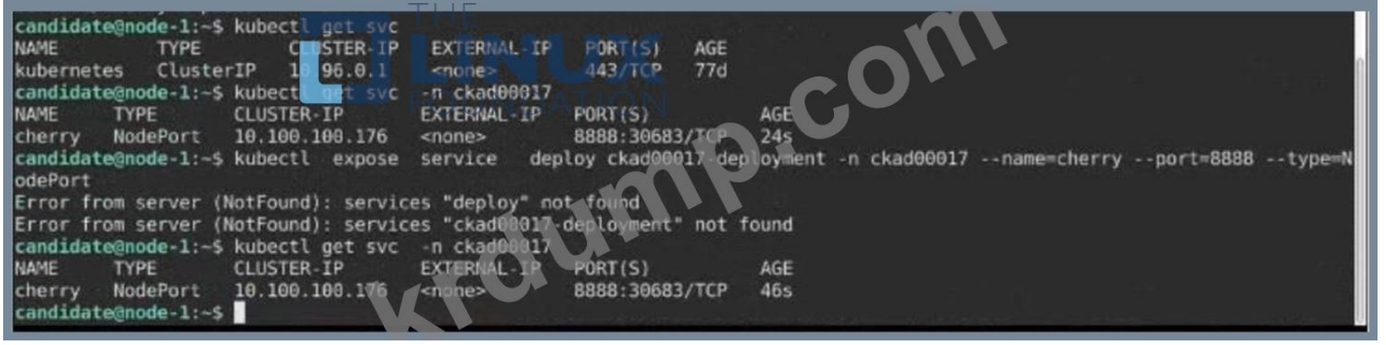
```
File  Edit  View  Terminal  Tabs  Help
  name: ckad00017-deployment
  namespace: ckad00017
  resourceVersion: "3349"
  uid: 1cd67613-fade-46e9-b741-94298b9c6e7c
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
        role: userUI
    spec:
      containers:
      - image: nginx:latest
        imagePullPolicy: Always
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
        resources: {}
-- INSERT --                                                    35,21         33%
```



```
backend-deployment-59d449b99d-h2zjq   0/1     Running   0          9s
backend-deployment-78976f74f5-b8c85   1/1     Running   0          6h40m
backend-deployment-78976f74f5-flfsj   1/1     Running   0          6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment   3/3     3            3           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment   3/3     3            3           6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  set serviceaccount  deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
deployment.apps/buffalo-deployment configured
candidate@node-1:~$ kubectl  get pods -n gorilla
NAME                                  READY   STATUS              RESTARTS   AGE
buffalo-deployment-776844df7f-r5fsb   1/1     Running             0          6h38m
buffalo-deployment-859898c6f5-zx5gj   0/1     ContainerCreating   0          8s
candidate@node-1:~$ kubectl  get deploy -n gorilla
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment   1/1     1            1           6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ 
```



```
candidate@node-1:~$ kubectl  get pods -n gorilla
NAME                                  READY   STATUS              RESTARTS   AGE
buffalo-deployment-776844df7f-r5fsb   1/1     Running             0          6h38m
buffalo-deployment-859898c6f5-zx5gj   0/1     ContainerCreating   0          8s
candidate@node-1:~$ kubectl  get deploy -n gorilla
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment   1/1     1            1           6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
service/cherry exposed
candidate@node-1:~$ 
```

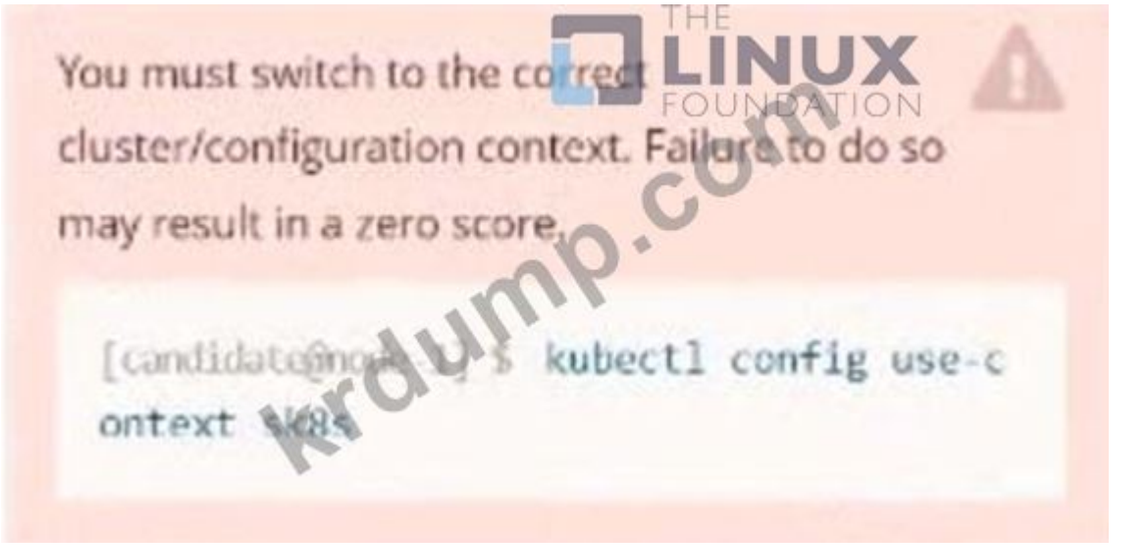


```
candidate@node-1:~$ kubectl get svc
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   77d
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   24s
candidate@node-1:~$ kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
odePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
candidate@node-1:~$ 
```

```
File  Edit  View  Terminal  Tabs  Help
candidate@node-1:~$ kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
odePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
candidate@node-1:~$ history
    1  vi ~/spicy-pikachu/backend-deployment.yaml
    2  kubectl config use-context sk8s
    3  vim .vimrc
    4  vim ~/spicy-pikachu/backend-deployment.yaml
    5  kubectl  apply  -f ~/spicy-pikachu/backend-deployment.yaml
    6  kubectl get  pods -n staging
    7  kubectl get deploy -n staging
    8  vim ~/spicy-pikachu/backend-deployment.yaml
    9  kubectl config use-context k8s
   10  kubectl  set serviceaccount  deploy app-1 app -n frontend
   11  kubectl config use-context k8s
   12  vim ~/prompt-escargot/buffalo-deployment.yaml
   13  kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
   14  kubectl  get pods -n gorilla
   15  kubectl  get deploy -n gorilla
   16  kubectl config use-context k8s
   17  kubectl edit deploy ckad00017-deployment -n ckad00017
   18  kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
   19  kubectl get svc
   20  kubectl get svc  -n ckad00017
   21  kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
   22  kubectl get svc  -n ckad00017
   23  history
candidate@node-1:~$
```

NEW QUESTION: 26

□□



□:

□□ Pod □□□ □□□□□□□ nginx resources□□ □□□ Pod□ □□□□.

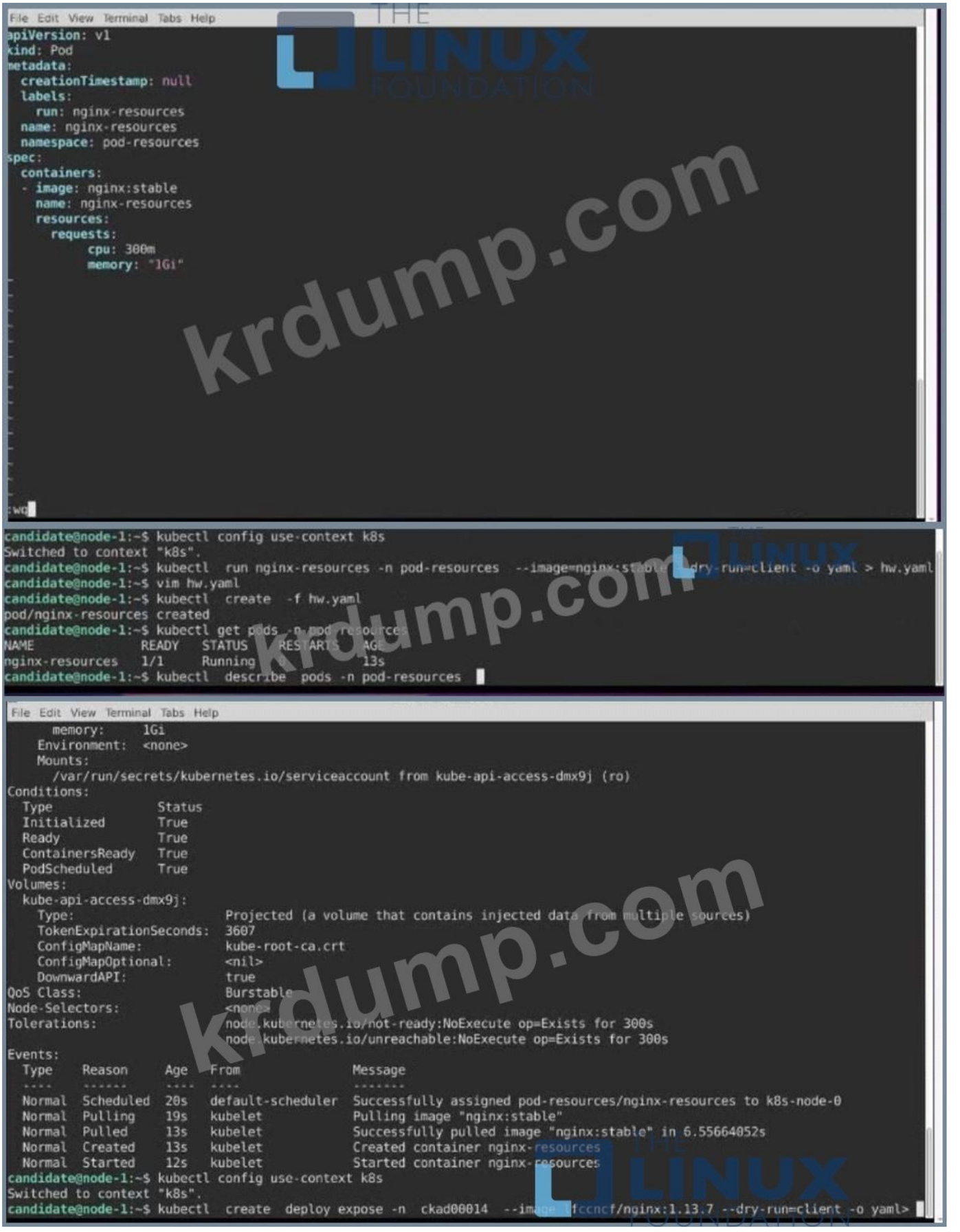
nginx:stable □□□□ □□□□ □□ □□□□□ □□□□□.

Pod □□□□□ □□ 300m CPU□ 1G1 □□□□ □□□ □□□ □□□□□.

Answer:

□□□:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  run nginx-resources -n pod-resources  --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
```



NEW QUESTION: 27

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Answer:

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□□:

□□□(□□□) :

1. □□□ □□ □□□ □□(CRD)□ □□□□.

- □□ YAML □□□ □□□□ □□□ □□ □□□ "autoscaling.k8s.io/v1alpha1"□ □□□□□.

```
apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
  name: autoscalings.autoscaling.k8s.io
spec:
  group: autoscaling.k8s.io
  versions:
  - name: v1alpha1
    served: true
    storage: true
  scope: Namespaced
  names:
    plural: autoscalings
    singular: autoscaling
```

- 'kubectl apply -f crd.yamr'□ □□□□ CRD□ □□□□□. 2. □□□ □□ □□□□ □□□□. - "□ □" □□□ □□ □□□ □□ □□□□□ □□□ □□ □□□ '□□ □□'□ □□□□□ □□□ □.

```
apiVersion: autoscaling.k8s.io/v1alpha1
kind: Autoscaling
metadata:
  name: web-app-autoscaler
spec:
  replicas: 3
```

- 'kubectl apply -t autoscaling-yamr'□ □□□□ □□□ □□ □□□□ □□□□□. 3. Kubernetes □□□□□ □□□□. - "□□ □□" □□□ □□ □□□□ □□ □□□ □□□□ "□ □" □□□ □ □□□□□ Kubernetes □□□□□ □□□□.

```
go
package main

import (
"context"
appsv1 "k8s.io/api/apps/v1"
corev1 "k8s.io/api/core/v1"
metav1 "k8s.io/apimachinery/pkg/apis/meta/v1"
"k8s.io/apimachinery/pkg/runtime"
"k8s.io/apimachinery/pkg/runtime/schema"
"k8s.io/apimachinery/pkg/watch"
"k8s.io/client-go/kubernetes"
"k8s.io/client-go/rest"
"k8s.io/client-go/tools/cache"
"k8s.io/client-go/tools/record"
"k8s.io/client-go/util/workqueue"
"sigs.k8s.io/controller-runtime/pkg/client"
"sigs.k8s.io/controller-runtime/pkg/controller"
"sigs.k8s.io/controller-runtime/pkg/handler"
"sigs.k8s.io/controller-runtime/pkg/manager"
"sigs.k8s.io/controller-runtime/pkg/reconcile"
"sigs.k8s.io/controller-runtime/pkg/source"
)
// Define the custom resource schema
var (
scheme = runtime.NewScheme()
gvk = schema.GroupVersionKind{
Group: "autoscaling.k8s.io",
Version: "v1alpha1",
Kind: "Autoscaling",
}
)

func init() {
_ = corev1.AddToScheme(scheme)
_ = appsv1.AddToScheme(scheme)
_ = metav1.AddToGroupVersion(scheme, schema.GroupVersion{Group: "autoscaling.k8s.io", Version: "v1alpha1"})
}

// Define the controller logic
func reconcileAutoscaling(request reconcile.Request, c client.Client) (reconcile.Result, error) {
// Fetch the Autoscaling resource
autoscaling := &autoscalingv1alpha1.Autoscaling{}
err := c.Get(context.Background(), request.NamespacedName, autoscaling)
if err != nil {
// Handle error
return reconcile.Result{}, err
// Fetch the web-app Deployment
deployment := &appsv1.Deployment{}
err = c.Get(context.Background(), request.NamespacedName, deployment)
if err != nil {
// Handle error
return reconcile.Result{}, err
}

// Update the Deployment's replicas
deployment.Spec.Replicas = &autoscaling.Spec.Replicas
err = c.Update(context.Background(), deployment)
if err != nil {
// Handle error
return reconcile.Result{}, err
}

return reconcile.Result{}, nil
}
func main() {
// Create a Kubernetes client
cfg, err := rest.InClusterConfig()
if err != nil {
panic(err)
}
clientset, err := kubernetes.NewForConfig(cfg)
if err != nil {
panic(err)
}

// Create a manager
mgr, err := manager.New(cfg, manager.Options{Scheme: scheme})
if err != nil {
panic(err)
```

```
// Create a controller for the Autoscaling custom resource
err = controller.New("autoscaling-controller", mgr, controller.Options{Reconciler: &ReconcileAutoscaling{client: mgr.GetClient(), scheme:
mgr.GetScheme(), recorder: mgr.GetEventRecorderFor("autoscaling-controller")}})
if err != nil {
panic(err)
}

// Watch for changes in the Autoscaling custom resource
err = mgr.GetFieldIndexer().IndexField(context.Background(), &autoscalingv1alpha1.Autoscaling{}, "metadata.name", func(rawObj runtime.Object)
[]string {
autoscaling := rawObj.(autoscalingv1alpha1.Autoscaling)
return []string{autoscaling.GetName()}
})
if err != nil {
panic(err)
}

// Create a new source for the controller
source := &source.Kind{Type: &autoscalingv1alpha1.Autoscaling{}}

// Create a new event handler for the controller
handler := &handler.EnqueueRequestForObject{}

// Create a new controller for the Autoscaling custom resource
err = mgr.Add(controller.New("autoscaling-controller", mgr, controller.Options{Reconciler: &ReconcileAutoscaling{client: mgr.GetClient(), scheme:
mgr.GetScheme(), recorder: mgr.GetEventRecorderFor("autoscaling-controller")}})).
Watch(source, handler)
if err != nil {
panic(err)
}

// Start the manager
if err := mgr.Start(ctrl.SetupSignalHandler()); err != nil {
panic(err)
}
```

4. □□□□ □□: - □□□□□ □□□□ Kubernetes □□□□□ □□□□□. 5. □□□□ □□ □ □: - "□□ □□" □□□ □□ □□□□ □□□□□(□: □□□ □□□ □ □□). - "□ □" □□□ □ □ □□□ □□□ □□□ □□ □□ □□□□ □□□□□ □□□□□. □ □□□ "□□ □□" □□ □ □□ □□□□ □□□□□□ □□ Kubernetes □□□□□ □□□□□. □□□ □□□□ □□□ □ □□□□□ "□ □" □□□ □□□□□□ □□□ □□□ □□ □□□□□. □□: □ □□□□□ "□ □" □□□ "□□ □□" □□□ □□ □□□□ □□□ □□□□□□□ □□□ □□□□□. □□ □□ □ □□□□□□□ □□ □□□ □□□□ □ □□ □□□□.

NEW QUESTION: 28
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□:

* □□ □□□□□□□ deployment-xyz□□ □□□ □□□ □□□□.

* □□ □□

lfccncf/busybox:1 □□□□, □□□ logger-dev□□□.

* □□□-zen□□□ □□□ □□□□ lfccncf/fluentd:v0.12 □□□□□ □□□□□.
* □□□ □□□□ □□□□ □□ □□ □□ /tmp/log□ □ □□□□□ □□□□□□.
* logger-dev□ □□□□□.

□□□ □□□ □□□□

```
while true; do
echo "i luv cncf" >> /
tmp/log/input.log;
sleep 10;
done
```

□□ □□ □□□ □□□□ /tmp/log/input.log□ □□□ □□□□ □□, □□ □□ □□□ □□□□.

```
i luv cncf
i luv cncf
i luv cncf
```

* adapter-zen □□□□ □□□□□ /tmp/log/input.log □□□ □□ Fluentd JSON □□□ □ /tmp/log/output.* □□□ □□□□ □□□□ □□□. □ □□□ □□□□ □ Fluentd□ □□ □□ □ □□□□ □□□□. /opt/KDMC00102/fluentd-configma p.yaml □□□ □□□ □□ □□□□ ConfigMap□ □□□□, □□ ConfigMap□ adapter-zen □□□□ □□□□□ /fluentd/etc □□□ □□□□□□ □□ □□□.

Answer:

□□□:


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: deployment-xyz
name: deployment-xyz
spec:
replicas: 1
selector:
matchLabels:
app: deployment-xyz
strategy: {}
template:
metadata:
labels:
app: deployment-xyz
spec:
containers:
- image: lfccncf/busybox:1
name: busybox
resources: {}
status: {}
"deployment_xyz.yml" 24L, 434C
3,1
All
krdump.com


Readme
Web Terminal
THE LINUX FOUNDATION
kind: Deployment
metadata:
labels:
app: deployment-xyz
name: deployment-xyz
spec:
replicas: 1
selector:
matchLabels:
app: deployment-xyz
template:
metadata:
labels:
app: deployment-xyz
spec:
volumes:
- name: myvol1
emptyDir:
containers:
- image: lfccncf/busybox:1
name: logger-dev
volumeMounts:
- name: myvol1
mountPath: /tmp/log
- image: lfccncf/fluentd:v0.12
name: adapter-zen
3 lines yanked
27,22
Bot
krdump.com


Readme
Web Terminal
THE LINUX FOUNDATION
replicas: 1
selector:
matchLabels:
app: deployment-xyz
template:
metadata:
labels:
app: deployment-xyz
spec:
volumes:
- name: myvol1
emptyDir: {}
containers:
- image: lfccncf/busybox:1
name: logger-dev
volumeMounts:
- name: myvol1
mountPath: /tmp/log
- image: lfccncf/fluentd:v0.12
name: adapter-zen
volumeMounts:
- name: myvol1
29,83
Bot


Readme
Web Terminal
THE LINUX FOUNDATION
metadata:
labels:
app: deployment-xyz
spec:
volumes:
- name: myvol1
emptyDir: {}
- name: myvol2
configMap:
name: logconf
containers:
- image: lfccncf/busybox:1
name: logger-dev
volumeMounts:
- name: myvol1
- image: lfccncf/fluentd:v0.12
volumeMounts:
- name: myvol1
mountPath: /tmp/log
- name: myvol2
mountPath: /fluentd/etc
37,33
Bot

NEW QUESTION: 29

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Answer:

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□□:

□□□(□□□) :

1. □□□ □□□ □□: Kustomize□ □□□□ □ □□ □□(□□□□□, □□□, □□□□□□)□ □□ □□□ Kubernetes □□□ □□□□ □□□□.

```yaml
# frontend-service.yaml
apiVersion: v1
kind: Service
metadata:
  name: frontend-service
spec:
  selector:
    app: frontend
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080
---
# backend-service.yaml
apiVersion: v1
kind: Service
metadata:
  name: backend-service
spec:
  selector:
    app: backend
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080
---
# database-service.yaml
apiVersion: v1
kind: Service
metadata:
  name: database-service
spec:
  selector:
    app: database
  ports:
  - protocol: TCP
    port: 5432
    targetPort: 5432
```

2. □□ □□ □□: □ □□ □□ □□□ □□□□□ □□ □□ □ □□ □□ □□□□ □□□□□.
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```yaml
# frontend-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: frontend-deployment
spec:
  replicas: 2
```

```
  selector:
    matchLabels:
      app: frontend
  template:
    metadata:
      labels:
        app: frontend
    spec:
      containers:
      - name: frontend
        image: frontend:latest
        ports:
        - containerPort: 8080
        livenessProbe:
          tcpSocket:
            port: 8080
          initialDelaySeconds: 15
          periodSeconds: 20
          timeoutSeconds: 5
          failureThreshold: 3
        readinessProbe:
          tcpSocket:
            port: 8080
          initialDelaySeconds: 5
          periodSeconds: 10
          timeoutSeconds: 2
          failureThreshold: 3
---
# backend-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: backend-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: backend
  template:
    metadata:
      labels:
        app: backend
    spec:
      containers:
      - name: backend
        image: backend:latest
        ports:
        - containerPort: 8080
        livenessProbe:
          tcpSocket:
            port: 8080
          initialDelaySeconds: 15
          periodSeconds: 20
          timeoutSeconds: 5
          failureThreshold: 3
```

```
        readinessProbe:
          tcpSocket:
            port: 8080
          initialDelaySeconds: 5
          periodSeconds: 10
          timeoutSeconds: 2
          failureThreshold: 3
---
# database-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: database-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: database
  template:
    metadata:
      labels:
        app: database
    spec:
      containers:
      - name: database
        image: database:latest
        ports:
        - containerPort: 5432
        livenessProbe:
          tcpSocket:
            port: 5432
          initialDelaySeconds: 15
          periodSeconds: 20
          timeoutSeconds: 5
          failureThreshold: 3
        readinessProbe:
          tcpSocket:
            port: 5432
          initialDelaySeconds: 5
          periodSeconds: 10
          timeoutSeconds: 2
          failureThreshold: 3
```


3. □□□□ □□ □□: □□ □ □□□ □□□□ □□□□ □□□ □□□□□. □ □□□ □□ □ □□□□ □□□□ □□□ □□□ □ □□□□□□ □□□□ □□□ □ □□□, □□□□□ □□ □□□□ □□□□ □ □□□□.

```
# network-policy.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: frontend-policy
spec:
  podSelector:
    matchLabels:
      app: frontend
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: backend
  - from:
    - podSelector:
        matchLabels:
          app: database
  egress:
  - to:
    - podSelector:
        matchLabels:
          app: backend
  - to:
    - podSelector:
        matchLabels:
          app: database
```


4. □□ □□: 'kuactl apply -k .s'□ □□□□ Kustomize □□□ □□□□□. □□□ □□ Kubernetes □□□□□ □□□, □□ □ □□□□ □□□ □□□□□. 5. □□ □□ □□□: □□ □□□ □□□□ 'kubectl exec -it'□ □□□□ □□□ □□ □□□□ □□ □□□ □□□ □□□□ □ □□□□□. 'kubectl describe deployment'□ □□ □□□ □□□□ □□□ □□□ □□□ □□ □□□□. - □□ □□□ □□□□ □□ □□ □□ □□, □□ □□□ □□, □□□□ □□□□ □□ □□ □□□□□□ □□□□ □□□ □□□□□. - 'kubectl logs'□ □□□□ □□□□ □□ □□ □□ □□□ □□□ □□ □□□□ □□□ □□ □□□□. - □□□□ □□ □□□ □□□□ □□ □□□ □□□□ □□□□□□, □□ □□□ □□□□ □□□ □□□□□. 6. □□□□□□ □□ □□□□: Kubernetes □□□□ □□□ □□□□ □□□□□□□□ □□□ □□□□ □□□ □□ □□ □□□□ □□□□□ □□□□□. Prometheus □ Grafana□ □□ □□□ □□□□ □□ □ □□ □□□□ □□ □□□□□□ □□□ □□□ □□ □□□ □□□□□ □ □□□□. - □□ □ □: □□□ □□ □ □□ □□□□ □□ Kubernetes□ Pod□ □□□ □□□□□ □□□□□ □ □ □□□. □□□□ □□□□ Kubernetes□ Pod□ □□ □□□□□ □□□□□ □□□□ □□□□ □□ Pod□ □□□□□ □□□ □□□. - □□□□ □□: □□□□ □□□ Pod □□ □□□ □□□ □□. □ □□□□ □□□□□ □□□□ □□□ □□□ □ □□□□□□ □□□□□ □□□ □ □ □□ □□□. - Kustomize: Kustomize□ Kubernetes □□ □□□ □□□□□ □ □□□ □□□.

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NEW QUESTION: 30
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Answer:
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- HostPath □□: □□□ □□□ □□□□ □□□□□ □□□□□ □□ □□□□ □□ 'hostPath' □□□ □□□□ □□□□□ □□□□□□.
- SecurityContext: □□□□□ 'securityContext' □□□ □□□□□. 'capabilities'□ □□ □□□ □ □□□ □□ □□□ □□□□ □□ □□□ □□□ □□□ □□□ □ □□□□.
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- □□□ □□□□ □□□□□□□ PSP□ □□□□□.
4. □□ □□□□: 2□□□□ □□□ □□ □□□□ □□□□□ □□ □□□ □□□□□.
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- □□□ □□ 'hostNetwork', 'hostPatW □□ □□ 'securityContext' □□□ □□□□□.
- □□ □□□ □□□ □□□□□ □□□ □□□□ □□□□□□ □□□□□.
5. □□□ □ □□: □□□ □□□ □□□□ □□□□□, □□□ □□□ □□ □□□□ □□ □□ □□□ □□□□□ □□□□□. □□, PSP□ □□□ □□ □□□ □□□□ □□□ □□□□□.
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□□ □□(□□ □□□□ □□):

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-container
        image: my-image:latest
        securityContext:
          privileged: true
```

□□□ □□(□□□ □□□□ □□):

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-container
        image: my-image:latest
        securityContext:
          privileged: false
        hostNetwork: true
```

□□ □□□ □□ PSP:

```
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: my-psp
spec:
  privileged: false
  hostNetwork: true
  hostPID: false
  hostIPC: false
  seLinux:
    rule: RunAsAny
  runAsUser:
    rule: RunAsAny
  supplementalGroups:
    rule: RunAsAny
  fsGroup:
    rule: RunAsAny
  readOnlyRootFilesystem: false
  volumes:
  - hostPath: {}
```


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NEW QUESTION: 31

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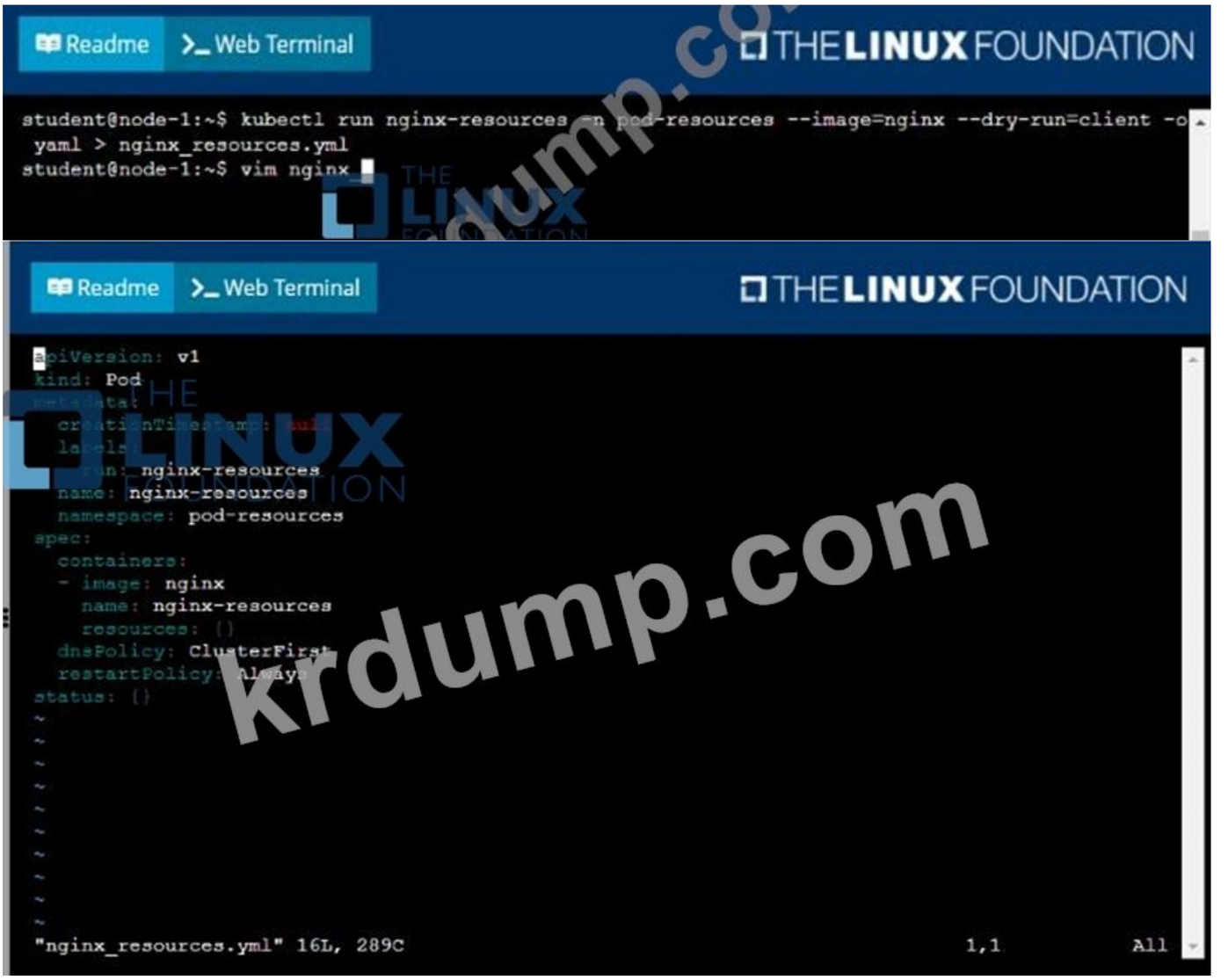
* □□□□□ □□ □□ 200m CPU□ 1Gi □□□□ □□□□ pod-resources □□□□□□□ nginx-resources□□ □□□ pod□ □□□□.

* Pod□ nginx □□□□ □□□□ □□□.

* pod-resources □□□□□□□ □□ □□□□□□□.

Answer:

□□□:


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx --dry-run=client -o yaml > nginx_resources.yml
student@node-1:~$ vim nginx
Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
creationTimestamp: null
labels:
run: nginx-resources
name: nginx-resources
namespace: pod-resources
spec:
containers:
- image: nginx
name: nginx-resources
resources: {}
dnsPolicy: ClusterFirst
restartPolicy: Always
status: {}
"nginx_resources.yml" 16L, 289C
1,1
All

NEW QUESTION: 32
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Kubemetes□ □□□□ □□□□ □□□□ □□ □□□ □□□□□ □□□. □ □□□□□ □□ Kubernetes □□□ □□□ □□□ □ □□□□?
Answer:
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- '□□' □ '□□□'□ □□□□ □□□ □□□ □□□(□: RabbitMQ, Kafka □)□ □□□□□.
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2 □□□□□□□ □□ □□□
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3. □□□ □□ □□□ ConfigMap□ □□□□□.
- □□□ □□ □□□, □□□ □□, □□□□□ □□ □□□ □□□ □□□□ □□ 'ConfigMap'□ □□□□.
- □ 'ConfigMap'□ □□□□ □□□□□□□ □□□□□ □□□□□□.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: message-broker-config
data:
  broker-connection: "amqp://user:password@broker.example.com:5672"
```

4. □□□□□ □□ □□: - □□□□ 'configMap'□ □□ □□□ □□□□ □□□ □□□□ □□□ □□ □□□□□□□□ □□□□□. - □□□ □□□ □□□□ □□□□ □□□□ □□□ □□ □ □□□ □□□□ □□□□□ □□□□□. 5. □□□ □□□ □□ □□□ □□: - □□□□□ □□□ □ □□□ □□□ □□□□ □□□□ 'ClusterIP' □□□ '□□□'□ □□□□□. - □□□□□□□ □□□□□ □ □□□□ □□ □□□□ □□□□ □ □□□ □□□□□. 6. □□□□ □□□□ □ □: - □□□□□ □□□□ □□□□□ □□□□ □□□□□ □□□ □□□ □ □□□□. - □□□ □ □□□□□ □□□ □□ □□□□ □□□ □□ □□, □□ □ □□□ □□□ □□□ □□□ □□ □□□ □□□ □ □□□□. 7. □□□ □□ □□: - □□□□ □□□□ □□ □□ □□□ □□□ □ □□□ □□ □□□ □□□ □ □□□ □□□□□ □□□□□. - □□□ □□, □□□□ □□, □□ □□ □□ □□□ □□□□ □□ □□□ □□□ □□□□□ □□□□□ □□□ □□□□□. □□: □ □□ □□□ □□□□□□□□ □□□ □□□ □□ □□□□ □□□ □□□□□. □□ □□□ □□ 'ConfigMap' □□, □□□ □□□ □□ □□ □□□, □□□ □□□□ □□□□□ □□□ □□ □ □□□ □□ □□□□ □□ □□□ □□□□ □□□ □ □□□□□.

NEW QUESTION: 33
□□□□□□ □□ □□ □□ □ API □□ □□ □□□ □□□ □□□ □ □□□□□□□ □□□□ □□□□. ConfigMaps□ □□□□ □□□ □□□ □□□□ □□□□□ □□□□□ □□□. □□

YAML□ □□□ □□ □□ □□□ □□□□ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 3
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-app:v1
        env:
        - name: DATABASE_HOST
          valueFrom:
            configMapKeyRef:
              name: my-app-config
              key: database_host
        - name: API_KEY
          valueFrom:
            configMapKeyRef:
              name: my-app-config
              key: api_key
```

□□ □□□□ □□□□ 'my-app-config'□□ □□□ ConfigMap□ □□□□. - '□□□□□□ □□ □: 'db.example.com' - 'api_key':

Answer:

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□□□(□□□) :

1. ConfigMap□ □□□□□.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: my-app-config
data:
  database_host: db.example.com
  api_key: your_secret_api_key
```

2. ConfigMap □□: bash kubectl apply -f my-app-config.yaml 3. ConfigMap □□: bash kubectl get configmap my-app-config -o yaml □ □□□ □□□ ConfigMap□ □ □□□ □□□□□.4. □ □ □□: bash kubectl apply -f deploymentyaml □□□ □□ ConfigMap□ □□ □□□□ □□□□ □□ □□ □□□ □□□□.5. Pod □□: bash kubectl get pods -l app=my-app -o wide 6. □□ □ □ □□: bash kubectl exec -it bash -c 'env' □ Pod □ □□□ □□□□ □□□□.□ □□□ 'DATABASE HOST' □ 'API KEY'□ □□□□ □□□□ □□ □□□ □□ □□□ □□□□□.□□: ConfigMap□□ □□ API □□ □□□ □□□.□□□ □□ □□□ □□□ □□ YAML □□□ □□ □□□□ □□ □□□ □□ □□□ □□□□□.

NEW QUESTION: 34

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- touch /tmp/healthy; sleep 30; rm -rf /tmp/healthy; sleep 600
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kubectl describe pod liveness-exec
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NEW QUESTION: 35
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```yaml
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: auth-service-statefulset
spec:
  serviceName: auth-service
  replicas: 3
  selector:
    matchLabels:
      app: auth-service
  template:
    metadata:
      labels:
        app: auth-service
    spec:
      containers:
      - name: auth-service
        image: your-image-repo:latest
        ports:
        - containerPort: 8080
      volumeClaimTemplates:
      - metadata:
          name: auth-data
        spec:
          accessModes: ["ReadWriteOnce"]
          resources:
            requests:
              storage: 1Gi
```


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```yaml
apiVersion: v1
kind: Service
metadata:
  name: auth-service
spec:
  type: LoadBalancer
  selector:
    app: auth-service
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080
```

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NEW QUESTION: 36

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Answer:

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NEW QUESTION: 37

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Answer:

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```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: api-consuming-service-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: api-consuming-service
  template:
    metadata:
      labels:
        app: api-consuming-service
    spec:
      containers:
      - name: api-consuming-service
        image: your-image-repo:latest
        env:
        - name: API_ENDPOINT
          value: your-api-endpoint
        - name: API_KEY
          valueFrom:
            secretKeyRef:
              name: api-credentials
              key: key
```

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```
apiVersion: v1
kind: Secret
metadata:
  name: api-credentials
stringData:
  key: your-api-key
```

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NEW QUESTION: 38

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Answer:

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```
apiVersion: v1
kind: Pod
metadata:
  name: my-app-pod
spec:
  containers:
  - name: web-server
    image: web-server-image:latest
    ports:
    - containerPort: 80
  - name: database
    image: database-image:latest
    ports:
    - containerPort: 5432
  - name: proxy
    image: proxy-image:latest
    ports:
    - containerPort: 8080
    volumeMounts:
    - name: proxy-log
      mountPath: /var/log/proxy
  volumes:
  - name: proxy-log
    emptyDir: {}
```

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NEW QUESTION: 39
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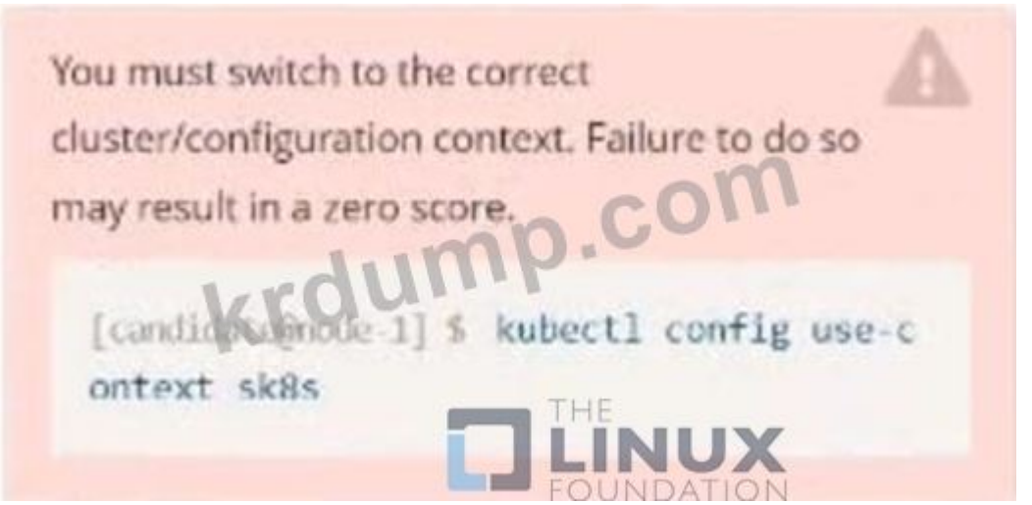
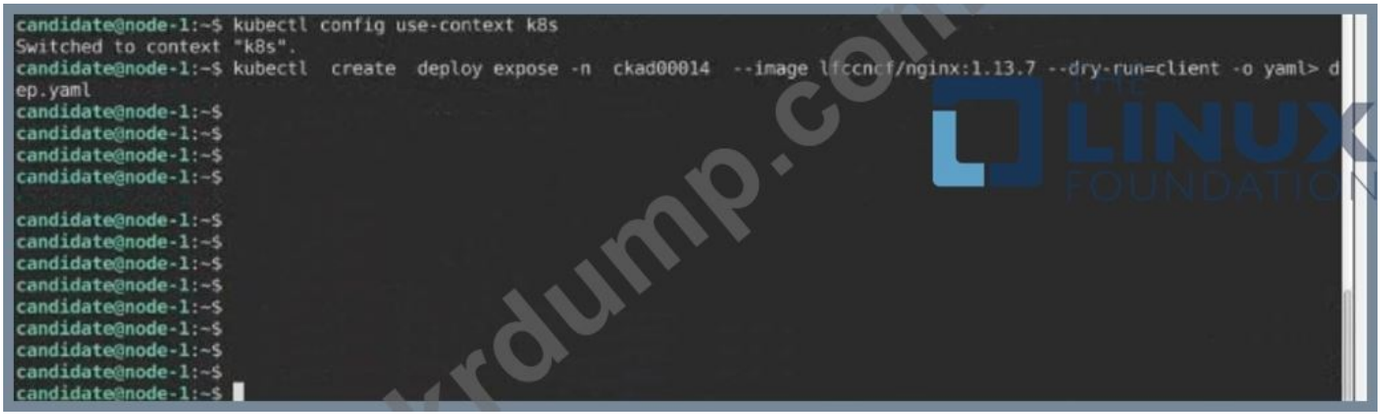


□:
□□ ckad00014 □□□□□□□ expose□□ □□□ □□□ □□□□ Pod□ □□□ 6□□ □□□ □□.
ifccncf/nginx: 1.13.7 □□□□ □□□□ □□ □□□□□ □□□□□. □□□□□ □□ 8001□ NGINX_PORT□□ □□ □□□ □□□ □□ □□ 8001□ □□□□□.
Answer:
□□□:



NEW QUESTION: 40
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□

* □/□ □(key1/value4)□ □□□□ another-secret□□□ □□□ □□□ □□□□□.

* □□□□ □□□ nginx□ □□□□ nginx-secret□□□ □□□ nginx pod□ □□□□, pod □□ □ □□ □□ □□□□ COOL_VARIABLE□ □□□□ □□ □ □ 1□ □□ □□□□ □□ □□□ □□□□□.

Answer:

□□□:


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
creationTimestamp: null
labels:
run: nginx-secret
name: nginx-secret
spec:
containers:
- image: nginx
name: nginx-secret
resources: {}
dnsPolicy: ClusterFirst
restartPolicy: Always
status: {}
"nginx_secret.yml" 15L, 253C
1,1
All
krdump.com


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-secret
name: nginx-secret
spec:
containers:
- image: nginx
name: nginx-secret
env:
- name: COOL_VARIABLE
valueFrom:
secretKeyRef:
name: some-secret
key: key1
-- INSERT --
16,20
All
krdump.com
THE LINUX FOUNDATION

NEW QUESTION: 41

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Answer:

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□□:

□□□(□□□) :

1. □□□ □□□□:

- 'kubectl create secret generic my-secret -from' □□□ □□□□ □□□ □□□□ □□□ □□□ □□□□□.
- □ □□□ 'username'□ 'password'□□ □ □□ □-□ □□ □□□□ 'my-secret'□□□ □□□ □ □□□□.
- □□ □□ □□ □□□ □□□□ □□□□.

2. □□□ □□ □□

- 'kubectl create serviceaccount my-service-account'□ □□□□ ServiceAccount□ □□□□□.
- □ □□□ 'my-service-account'□□ ServiceAccount□ □□□□□.

3. □□ □□□:

- ServiceAccount□ □□ □□□ □□□□ □□□ □□□□□. □ □□□ □□□ □□ □□ □□□ □□□□□.

- □□ YAML□ □□□□ 'my-role'□□□ □□□ □□□ □□□□.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: my-role
  namespace: default
rules:
- apiGroups: ["v1"]
  resources: ["secrets"]
  verbs: ["get", "watch", "list"]
```

- □ □□□ 'my-role.yamr'□□□ □□□ □□□□ 'kubectl apply -f my-role-yamp'□ □□□□ □ □□□□ □□□□□. - 'default'□ □□□ □□□ □□□□□□□ □□□□. 4. □□□ ServiceAccount□ □□□□□□. - 'kubectl create rolebinding my-role-binding -role-my-role account'□ □□□□ □□□ □□□ ServiceAccount□ □□□□□□. - □ □□□ 'my-role-binding'□□□ RoleBinding□ □□□□ 'default' □□□□□□□ 'my-service-account'□ 'my-role'□ □□□□□□. - 'default'□ □□□ □□□ □□□□□□□ □□□□. 5. □□ □□: - 'kubectl auth can-i get secrets -as-my-service-account --namespace=default'□ □□□□ ServiceAccount□ □□□ □□ □□□□ □□□ □ □□□□. - □ □□□ ServiceAccount□ □□ □ □□□ □□ □□ 'yes'□ □□□□ □□□. 6. Pod□□ ServiceAccount□ □□□□□. - Pod □ □ □□□ ServiceAccount□ □□□□ □□□□□□□ □□□ □□ □□□ □□□ □□□□□. - Pod □□ □□ □□□ ServiceAccount□ □□□□ 'serviceAccountNames' □□□ □□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      serviceAccountName: my-service-account
      containers:
      - name: my-app-container
        image: my-app-image
        envFrom:
        - secretRef:
            name: my-secret
```

□□ Pod□□ □□□□ □□□□□□□ 'envFror-n' □□□ □□□ □□ □□□ □□□□ 'my-secret' □□□ □□□ □ □□□□. 'my-service-account' □□□ □□□ □□ □□ □□□ □□ □ □□□ □□□ □□□□□ □□□ □ □□□ □□□.

NEW QUESTION: 42
□ □□□□□□ □□□□□ □□□ 3□□ □□□□ 'web-apps'□□ □□□ □□□□.□ □□□

□□□□ 'db-service'□□ □□□ □□□ □□□□□□ □□□□ □□□□□. □ □□□□□□ □ □□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□ □□□□□ 'initContainer' □□□ □ □□□ □□□□ □□□ □□□□ □□□. □ □□□□□□ □□□□□ □□□□□□□□ □□□ □ □□ □□ □□□□□ □□□.

Answer:

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□□□(□□□) :

1. 'initcontainer'□ □□□□□.

- 'web-app' □□□ 'spec.template.spec.initContainerS' □□□ □□□ □□□□ □□□ □□□□ □.

- □□□□ □□□ 'db-checker'□ □□□□□.

- □□□□□□ □□ □□□ □□□ □□□□ □□□□□. 'busybox'□ □□ □□□ □□□□ □□ □□ 'initContainer'□ 'curl'□ □□□□ □□ □□□ □□□ □ □□□□.

- 'initcontainer'□ □□ '□□'□ □□□□ □□ □□□ □□□ □□□ □□□□□□ □□□□ □□ □□□□□□ □□ □□□□ 'while' □□□ □□□□ □□□.

- 'db-service' □□□ □□□ □□□□ □□ □□□□□□ □□□ □ □□□□.

2. 'db-service' □□ □□□□ - 'db-servjce' □□□ □□□ □□□ health cneck □□□□□□ □□ □□ □□□ □□□□□. - □□ □□, □□□□□□ □□□ □□□□ 'http://db-service:5432/health'□ health □□□□□□ □□□ □ □□□□. - □□□□□□□ □□ □□□ □ □□ □□ health □□□□□□ □□□□ □□ □□(□: 200)□ □□□□ □□□. - □□□□□□□ □□□ □ □□ □□ □□□□□□ □□ □□□ □□□□ □□□.

3. □□ □□ □□: - 'kubectl apply'□ □□□□ □□□□□ 'web-app' □ 'db-service' □□ YAML □ □□ □□□□□ □□□□□ □□□□□. 4. □□ □□: - □□□ □□□□□□ 'db-service' □□□ □□□ □□□□ 'web-app' □□□ □□□□□ □□□□□. - 'db-checker' □□□□□ 'initcontainer' □□□ □□□□ □□ □□□ □□□□ □□□ □□□ □ □□□□. - 'db-service' □ □□ □□□□□□ 'Running' □□□□ □□□ □□ □□□□. □ □□□ □□ 'db-service'□ □□ □ □ □□ □□ □□□ □ □□□ 'web-app' □□□□□ □□□□ □□□□. □□ □□ □ □□□ □□□□ □□□□□□□ □□□□□ □□□□□ □□□ □ □□□□.

NEW QUESTION: 43

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Answer:

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□□□(□□□) :

1. □ □□□□□□ □□: 'kubectl create namespace' □□□ □□□□ □ □□ □□□□□□□ □ □□□□. □: 'kubectl create namespace ecom-team'.
2. □□□ □□□ □□: 'kubectl create -f' □□□ □□□□ □ □□□□□□□ □□ □□□ □□□ □□□□□. □□□ □□ □ □□ □□□□□□ □□ □□□ □□ □□□□ □□□□ □□ □□□

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```
apiVersion: v1
kind: ResourceQuota
metadata:
  name: ecom-team-quota
  namespace: ecom-team
spec:
  requests.cpu: "2"
  requests.memory: "2Gi"
  limits.cpu: "4"
  limits.memory: "4Gi"
```

3. □□ □□ □□ □□(RBAC) □□: 'kubectl create -f ' □□□ □□□□ □ □□ □□ □□□□ □ □□□□. □□ □□ □ □□ □□□□□□ □□□ □□□ □ □□ □□□ □□□ □ □□□□. □ □ □□□ □□□ □□ □□□ □□□□.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: ecom-team-binding
  namespace: ecom-team
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: ecom-team-role
subjects:
- kind: User
  name: ecom-user
  apiGroup: rbac.authorization.k8s.io
```

4. □□□□□□ □□ □□□ □□: □□□□□ □ □□ □□□□□□ □□ □□□□□□ □ □□ □□□□ □□□□□. □□ □□, □□ □□□ □□□□ '□□'□ □□□ □ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: ecom-app-deployment
  namespace: ecom-team
spec:
  replicas: 3
  selector:
    matchLabels:
      app: ecom-app
  template:
    metadata:
      labels:
        app: ecom-app
    spec:
      containers:
      - name: ecom-app
        image: example/ecom-app:latest
```

5. □□□□□□ □□ □□: 'kubectl get namespaces'□ □□□□ □□ □□□□□□□ □□□□, 'kubectl describe namespace'□ □□□□ □□ □□□□□□□ □□ □□□ □□□□□. 6. □□ □□□□ □□□ □□: 'kube ctl'□ □□ □□□ □□□ □□□ □□□□□(GIJI)□ □□□□ □ □ □□□□□ □□ □□□ □□□ □□□□ □□□ □ □□□□. 7. □□: □□ □ □□ □□ □□□ □□□□ □□□□ □□□ 'kubectl delete namespace'□ □□□□ □□□ □ □□□□.

NEW QUESTION: 44
'my-app-deployment'□□ □□□ □□□ □□□□□□ □□□□□ □□□ □ □□ □□□□ □□ □□. □ □□ □□□ Pod□ □□□□□□ □□ □□□□ □□□ □□□□ □□□. □□, □ □□□ □ □□□□ Docker □□□□□□ □□□ □□□ □□□□ □□□□□ □□□□ □□□□□ □□

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Answer:

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□□□(□□□) :

1. □□ YAML□ □□□□□□□.

- '□□□'□ 2□ □□□□□□□.

- □□ □□□□ □□□□□ □□□□ □□ 'strategy-rollinglJpdate' □□□□ 'maxunavailable: 1'□ 'maxSurge: O'□ □□□□□.

- □□□ □□□□□□ □□ □□□□□ □□□□□ □□ 'strategy.types'□ 'Rollingupdates'□ □ □□□□.

- □□□ □□ □□□ □□ □□ □□□□ □ □□□□ □□□□□ 'spec-template.spec.imagePullP01icy: Always'□ □□□□□.

- 'spec-template-spec-imagePullSecrets' □□□ □□□□ □□ Docker □□□□□□ □□ □□ □ □□ □□□□□. 'registry-secret'□ □□ □□□□ □□□□ □□□□.

```
ind: Deployment
etadata:
 name: my-app-deployment
pec:
 replicas: 2
 selector:
   matchLabels:
     app: my-app
 template:
   metadata:
     labels:
       app: my-app
   spec:
     containers:
     - name: my-app
       image: your-private-registry.com/your-namespace/my-app:latest
       imagePullPolicy: Always
     imagePullSecrets:
     - name: registry-secret
 strategy:
   type: RollingUpdate
   rollingUpdate:
     maxUnavailable: 1
```


2. □□ □□□ - 'kubectl apply -f my-app-deployment.yamr'□ □□□□ □□□□□ YAML □□□ □□□□□.3. □□ □□: - 'kubectl get deployments my-app-deployment'□ □□□□ □□ □□□ □□□□ □□□□ □□□□□ □□□ □□ □□□□□.4. □□ □□□□ □□□: - 'your-private-registry.com/your-namespacemy-app:latest'□ □□ □□□ □□ Docker □□□□□□ □ □□□ □ □□□□□.5. □□ □□□□: - 'kubectl get pods -l app=my-apps'□ □□□□ □□ □□□□ □ □□□ □□ □□ □□□□□ □□□□□□□□.□ □□ □□□ □□□ □□□□ □□□□□ □□□ □ □□ □ □□□ □□□ □□□□ □□ □□□ □ □□□□.6. □□□□ □□ □□: - □□□ □□ □□ 'kubectl describe deployment my-app-deployment'□ □□□□ updatedReplicas' □□□ 'replicas' □□□ □□□□□ □□□□ □□□□□ □□□□□ □□□□□.]

NEW QUESTION: 45

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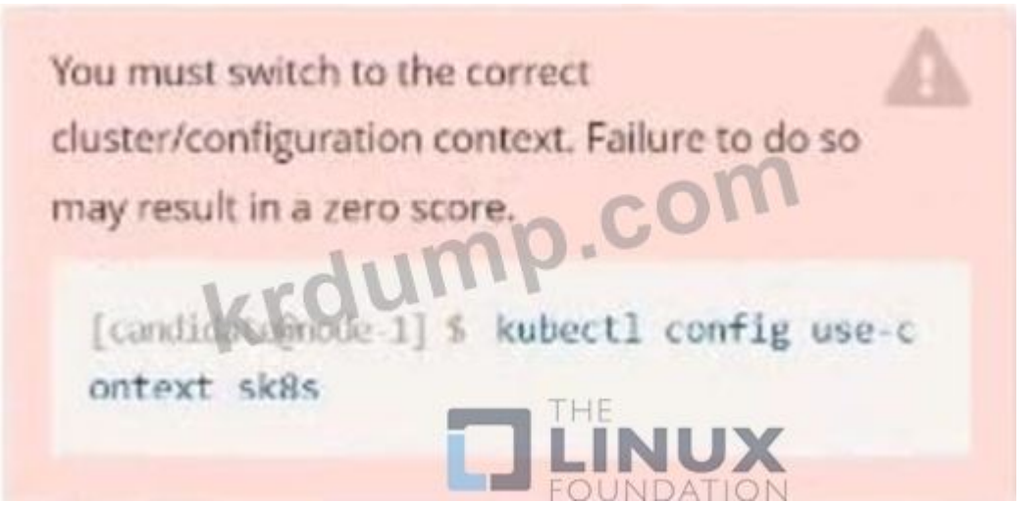


□:

buffale-deployment□□ □□□ □□ □ □□□ Gorilla □□□□□□□ □□□ □□□□□.

1) □□□ □□□□ □□ □□□□ □□□□□.

□□□□□□ "gorilla"□□ □□□ "system:serviceaccount:gorilla:default"□ □□□ "deployment" [...]□ □□□ □ □□□ □□□ □□□ □□□□.

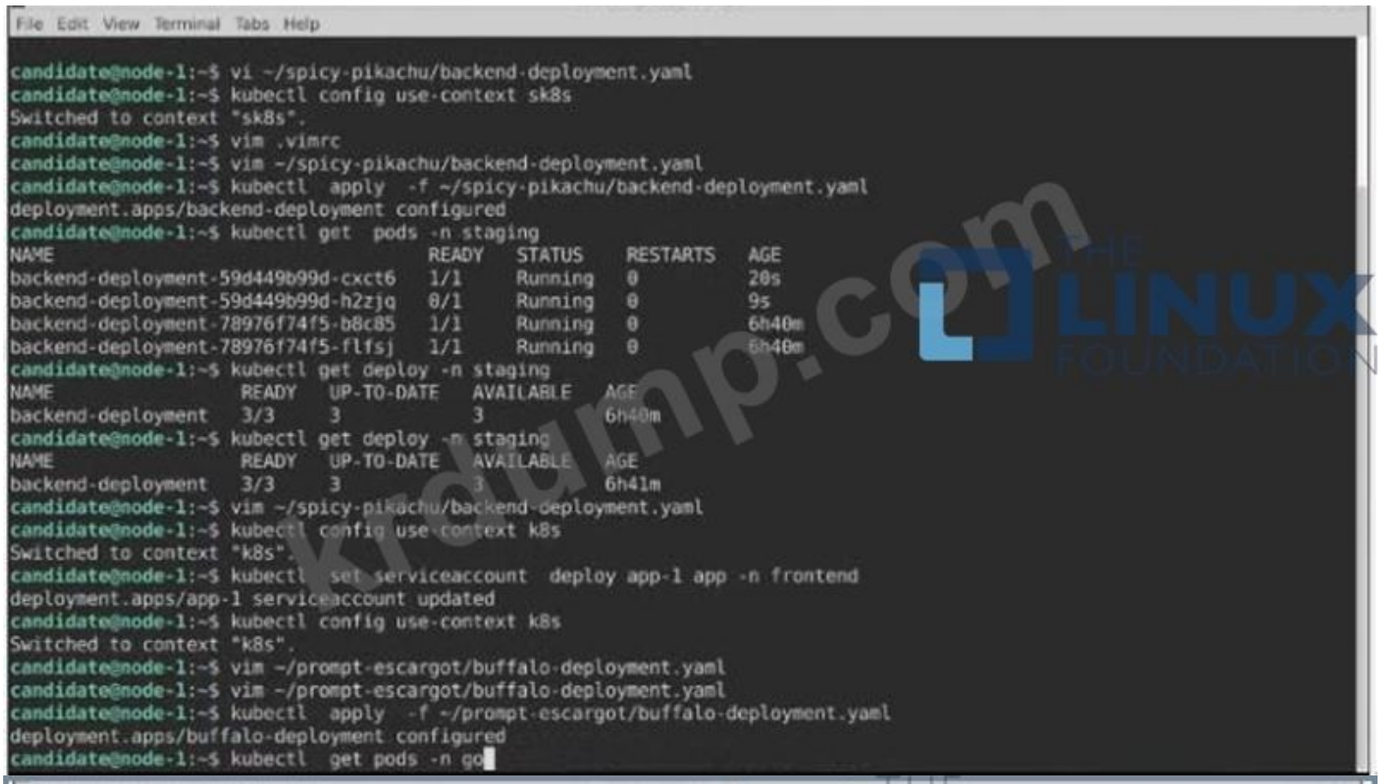
2) Pod □□□ □□□ □□□□ □□ □□ buffalo-deployment□ □□□□□□□.

buffalo-deployment□ □□□□□□ -/prompt/escargot/buffalo-deployment.yaml□□ □□ □ □□ □□.

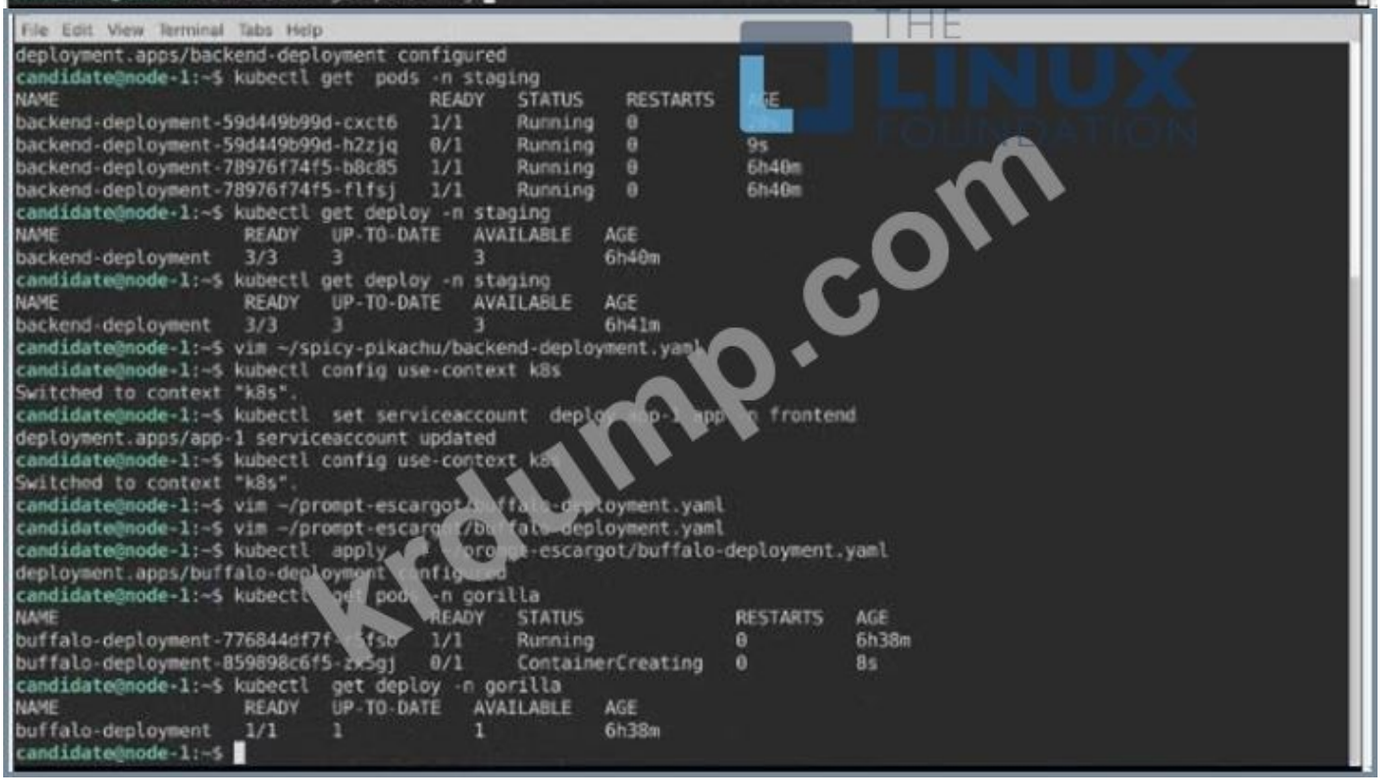
Answer:

□□□:

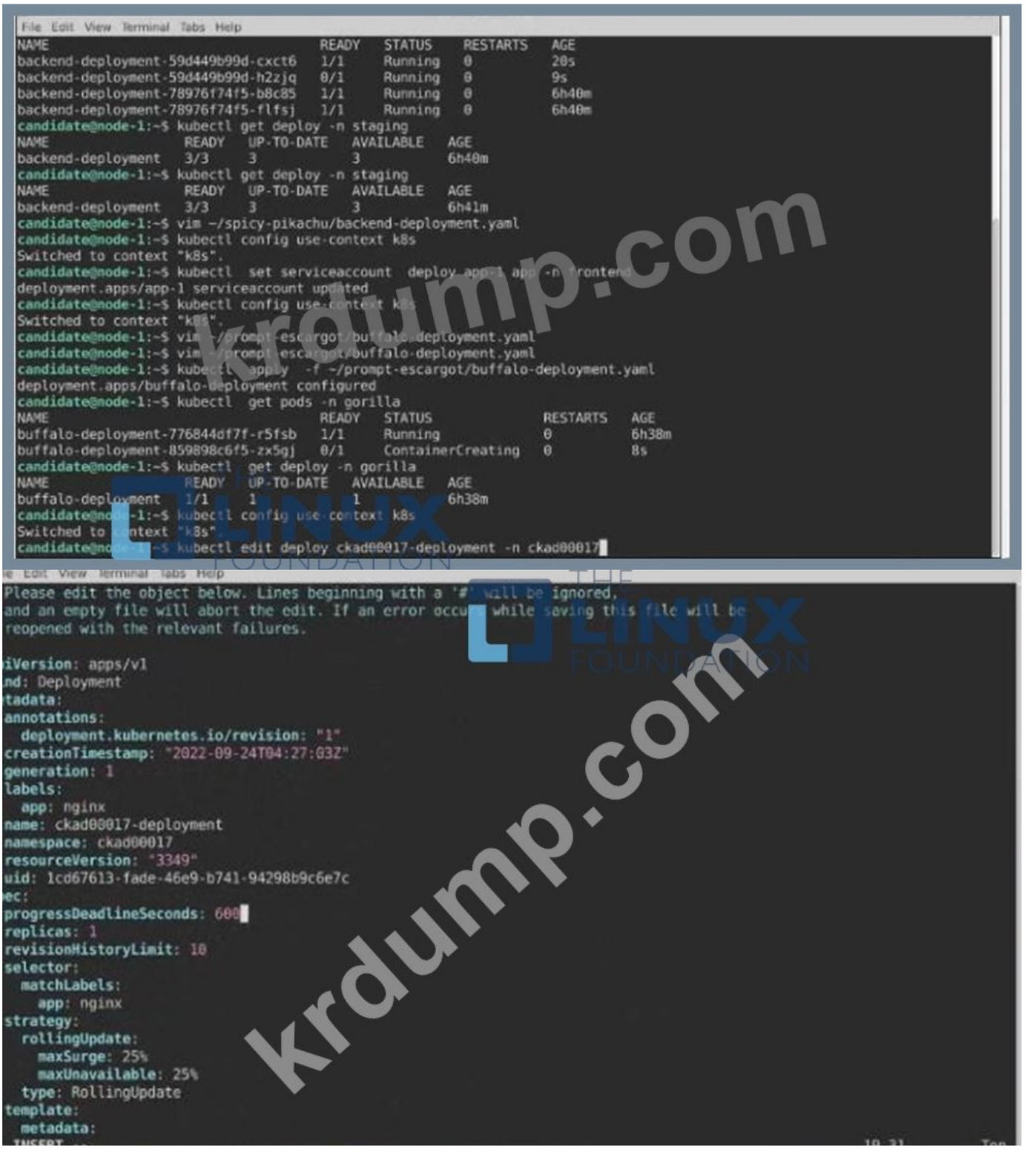
```
eployment.apps/backend-deployment configured
andidate@node-1:~$ kubectl get  pods -n staging
AME                                  READY   STATUS    RESTARTS   AGE
ackend-deployment-59d449b99d-cxct6   1/1     Running   0          20s
ackend-deployment-59d449b99d-h2zjq   0/1     Running   0          9s
ackend-deployment-78976f74f5-b8c85   1/1     Running   0          6h40m
ackend-deployment-78976f74f5-flfsj   1/1     Running   0          6h40m
andidate@node-1:~$ kubectl get deploy -n staging
AME                 READY   UP-TO-DATE   AVAILABLE   AGE
ackend-deployment   3/3     3            3           6h40m
andidate@node-1:~$ kubectl get deploy -n staging
AME                 READY   UP-TO-DATE   AVAILABLE   AGE
ackend-deployment   3/3     3            3           6h41m
andidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
andidate@node-1:~$ kubectl config use-context k8s
witched to context "k8s".
andidate@node-1:~$ kubectl  set serviceaccount  deploy app-1 app -n frontend
eployment.apps/app-1 serviceaccount updated
andidate@node-1:~$ kubectl config use-context k8s
witched to context "k8s".
andidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
andidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
andidate@node-1:~$ kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
eployment.apps/buffalo-deployment configured
andidate@node-1:~$ kubectl  get pods -n gorilla
AME                                  READY   STATUS              RESTARTS   AGE
uffalo-deployment-776844df7f-r5fsb   1/1     Running             0          6h38m
uffalo-deployment-859898c6f5-zx5gj   0/1     ContainerCreating   0          8s
andidate@node-1:~$ kubectl  get deploy -n gorilla
AME                 READY   UP-TO-DATE   AVAILABLE   AGE
uffalo-deployment   1/1     1            1           6h38m
andidate@node-1:~$
```

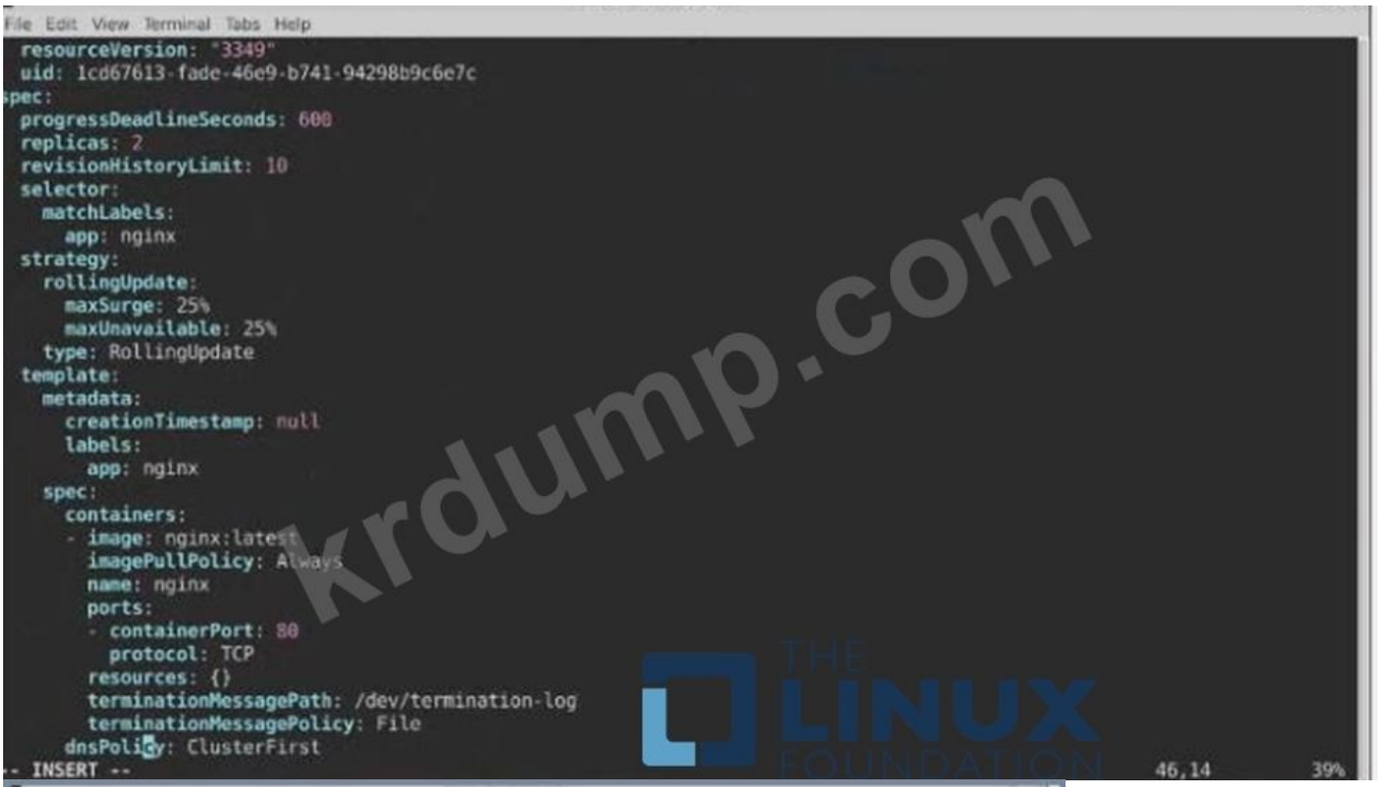


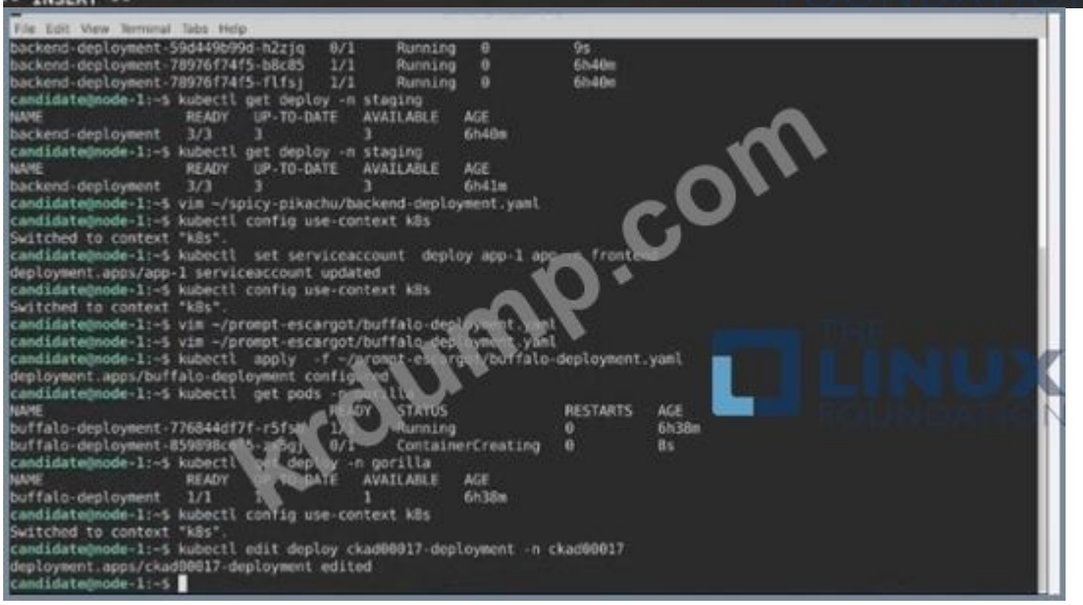
```
File  Edit  View  Terminal  Tabs  Help

candidate@node-1:~$ vi ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
candidate@node-1:~$ vim .vimrc
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl  apply  -f ~/spicy-pikachu/backend-deployment.yaml
deployment.apps/backend-deployment configured
candidate@node-1:~$ kubectl get  pods -n staging
NAME                                  READY   STATUS    RESTARTS   AGE
backend-deployment-59d449b99d-cxct6   1/1     Running   0          20s
backend-deployment-59d449b99d-h2zjq   0/1     Running   0          9s
backend-deployment-78976f74f5-b8c85   1/1     Running   0          6h40m
backend-deployment-78976f74f5-flfsj   1/1     Running   0          6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment   3/3     3            3           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment   3/3     3            3           6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  set serviceaccount  deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
deployment.apps/buffalo-deployment configured
candidate@node-1:~$ kubectl  get pods -n go
```

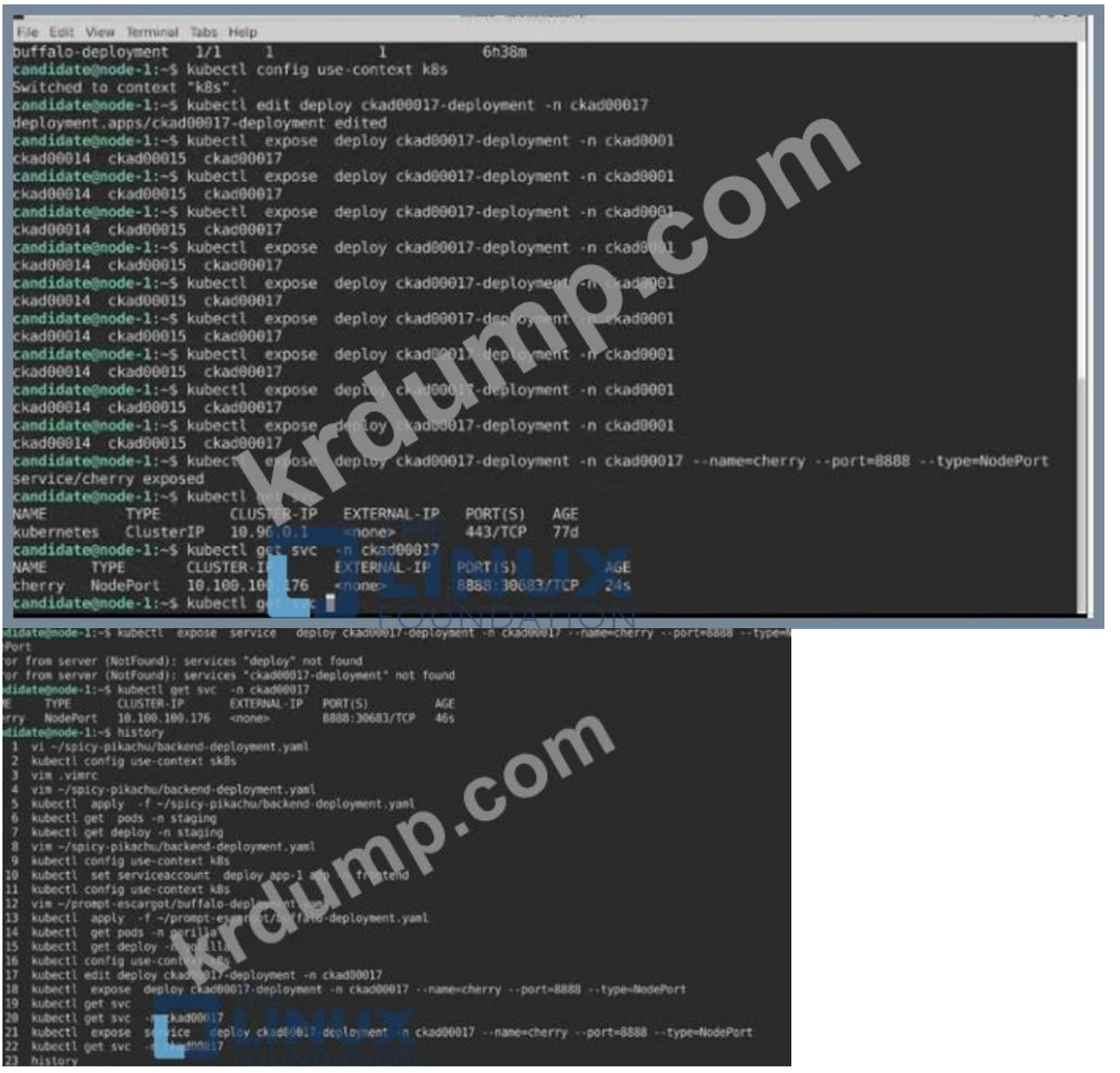


```
File  Edit  View  Terminal  Tabs  Help
deployment.apps/backend-deployment configured
candidate@node-1:~$ kubectl get  pods -n staging
NAME                                  READY   STATUS    RESTARTS   AGE
backend-deployment-59d449b99d-cxct6   1/1     Running   0          20s
backend-deployment-59d449b99d-h2zjq   0/1     Running   0          9s
backend-deployment-78976f74f5-b8c85   1/1     Running   0          6h40m
backend-deployment-78976f74f5-flfsj   1/1     Running   0          6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment   3/3     3            3           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment   3/3     3            3           6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  set serviceaccount  deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
deployment.apps/buffalo-deployment configured
candidate@node-1:~$ kubectl get pods -n gorilla
NAME                                  READY   STATUS              RESTARTS   AGE
buffalo-deployment-776844df7f-7fsb    1/1     Running             0          6h38m
buffalo-deployment-859898c6f5-zd5gj   0/1     ContainerCreating   0          8s
candidate@node-1:~$ kubectl  get deploy -n gorilla
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment   1/1     1            1           6h38m
candidate@node-1:~$
```









```
buffalo-deployment   1/1     1            1           6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
service/cherry exposed
candidate@node-1:~$ kubectl get svc
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   77d
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   24s
candidate@node-1:~$ kubectl get svc
```

```
ndidate@node-1:~$ kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
ePort
ror from server (NotFound): services "deploy" not found
ror from server (NotFound): services "ckad00017-deployment" not found
ndidate@node-1:~$ kubectl get svc  -n ckad00017
E      TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
rry    NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
ndidate@node-1:~$ history
  1  vi ~/spicy-pikachu/backend-deployment.yaml
  2  kubectl config use-context sk8s
  3  vim .vimrc
  4  vim ~/spicy-pikachu/backend-deployment.yaml
  5  kubectl  apply  -f ~/spicy-pikachu/backend-deployment.yaml
  6  kubectl get  pods -n staging
  7  kubectl get deploy -n staging
  8  vim ~/spicy-pikachu/backend-deployment.yaml
  9  kubectl config use-context k8s
 10  kubectl  set serviceaccount  deploy app-1 app -n frontend
 11  kubectl config use-context k8s
 12  vim ~/prompt-escargot/buffalo-deployment.yaml
 13  kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
 14  kubectl  get pods -n gorilla
 15  kubectl  get deploy -n gorilla
 16  kubectl config use-context k8s
 17  kubectl edit deploy ckad00017-deployment -n ckad00017
 18  kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
 19  kubectl get svc
 20  kubectl get svc  -n ckad00017
 21  kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
 22  kubectl get svc  -n ckad00017
 23  history
```

NEW QUESTION: 46

Spring Boot □□□□□□□□ □□□ 3□□ □□□□ 'my-app-deployment'□□ □□□ □□□□. □ □□□□□□□□ □□□□□□ □□□□□□ □□□□ PostgreSQL □□□□□□□□ □□□□□□ □□□. □□□□ □ PostgreSQL □□□□□□□ □□□□□□ □□□□ 'Database'□□ □ □□□□□ □□□□ □□□ □□ □□□ □□(CRD)□ □□□□□ □□□. □ CRD□□ □□□□□□□ □□, □□□ □□, □□□□, □□□ □□□□□□□□ □□□ □□□□□ □□□□□ □□□ □□□□□□ □□□. □□, 'Database' □□□□ □□□□□ PostgreSQL □□□□□□ □□□□□ □□□□□□ 'my-app-deployment'□ □□□□ □□□.

Answer:

□□□ □□□ □□ □□□ □□□□□ □□□□□□.

□□:

□□□(□□□) :

1. CRD□ □□□□□.

- 'database.crd.yaml'□□□ YAML □□□ □□□ "□□□□□□" □□□□ □□□□□.

```yaml
apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
  name: databases.example.com
spec:
  group: example.com
  versions:
  - name: v1
    served: true
    storage: true
  scope: Namespaced
  names:
    plural: databases
    singular: database
  kind: Database
  subresources:
    status: {}
  validation:
    openAPIV3Schema:
      properties:
        spec:
          properties:
            databaseName:
              type: string
            username:
              type: string
            password:
              type: string
            host:
              type: string
          required:
            - databaseName
            - username
            - password
            - host
      type: object
```

2. CRD: - 'kubectl "ply -f database.crd.ya'mr□ □□□□ 'database.cre.yaml'□ □□□□□. 3. □ □□□□□ □□□□□ □□□□. - 'yml □□ 'd:tabaseyarnl'□ □□□□ □□□□□□ □□□□□

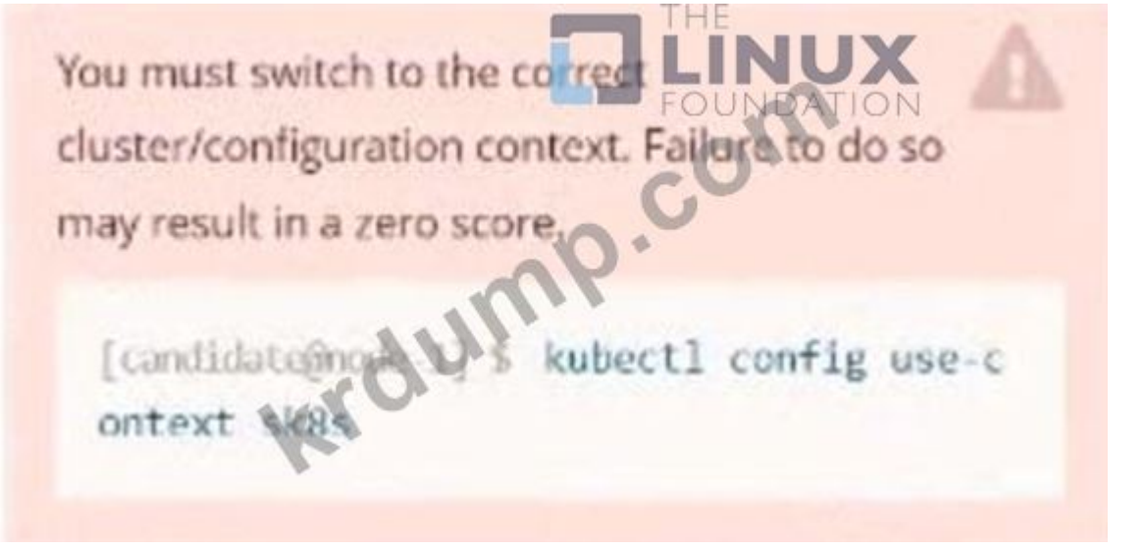
```yaml
apiVersion: example.com/v1
kind: Database
metadata:
  name: my-database
spec:
  databaseName: my-database
  username: my-user
  password: my-password
  host: my-database-service
```

4. □□□□□□ □□□□ □□: - 'kubectl apply -f database.yamr'□ □□□□ 'database.yaml'□ □□□□□. 5. □□ □□□□ - '□□□□□□' □□□□ □□□□□ Amy-app-deployment.yaml'□ □□□□□□□.

6. □□□□□ □□ □□: - 'kubectl apply -f my-app-deployment.yamr'□ □□□□ □□□□□ 'my-app-deployment.yamr'□ □□□□□. 7. □□ □□: - 'kubectl get databases'□ □□□□ □□□□ □□ □□□□□ □□□□□. - 'kubectl describe pod -l app=my-app'□ □□□□ □□□ PostgreSQL □□□□□□□ □□□□ □□ '□□□□□□' □□□□ □□ □□□□□ □□□□ □. □ □□□ Kubernetes□□ CRD□ □□□□ □□□ □□ □□□□ □□□□ □□□□□□□ □□□ □□□□ □□□□ □□□□ □□□ □□□□□. CRO□ □□□□□□ □□□□ □□□ □□□ □□□□ □□, □□□ 'fieldRef' □□□□□ □□□□ CRD□□ □□ □□□□□□ □□ □□ □□□ □□□□□ □□□□ □□ □□ □ □□□□□□ □□ □□□□ □□□□□.

NEW QUESTION: 47

□□



□:

1- ckad00015 □□□□□□ □□□□ Deployment web1□ Propertunel □□ □□□ □□□□□□ maxSurge□ 2□, maxUnavailable□ 59□ □□□□□.

2- lfconf/nginx □□□□ □□□□ □□ □□ 1.13.7□ □□□□□ web1 □□□ □□□□□□□.

3- web1 □□□ □□ □□□□ □□□□□.

Answer:

□□□:

```
File  Edit  View  Terminal  Tabs  Help
switched to context "k8s".
candidate@node-1:~$ kubectl  create  secret  generic  app-secret -n default  --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME         TYPE     DATA   AGE
app-secret   Opaque   1      4s
candidate@node-1:~$ kubectl  run nginx-secret -n default  --image=nginx:stable --dry-run=client -o yaml> sec.yaml
candidate@node-1:~$ vim sec.yaml
candidate@node-1:~$ kubectl  create  -f sec.yaml
pod/nginx-secret created
candidate@node-1:~$ kubectl  get pods
NAME           READY   STATUS    RESTARTS   AGE
nginx-secret   1/1     Running   0          7s
candidate@node-1:~$ kubectl config use-context k8s
switched to context "k8s".
candidate@node-1:~$ kubectl  edit deploy web1 -n ckad00015
deployment.apps/web1 edited
candidate@node-1:~$ kubectl  rollout  status  deploy web1  -n ckad00015
deployment "web1" successfully rolled out
candidate@node-1:~$ kubectl  rollout undo  deploy web1 -n ckad00015
deployment.apps/web1 rolled back
candidate@node-1:~$ kubectl  rollout  history  deploy web1 -n ckad00015
deployment.apps/web1
REVISION  CHANGE-CAUSE
2         <none>
3         <none>

candidate@node-1:~$ kubectl get rs -n ckad00015
NAME              DESIRED   CURRENT   READY   AGE
web1-56f98bcb79   0         0         0       63s
web1-85775b6b79   2         2         2       6h53m
candidate@node-1:~$
```

NEW QUESTION: 48

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Answer:

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□□:

□□□(□□□) :

1. Init □□□□□ □□□□.

- □□□□□□ Pod□ □□ □□□ init □□□□□ □□□□□.
- □ □□□□□ □□ □□□□□□ □□□□□□ □□ □□□□□.
- □ □□□□ □□□ □□□□□□ □□□□ □□□ □□□□□ □□□ □□□□□.
- □:

```
apiVersion: v1
kind: Pod
metadata:
  name: database-pod
spec:
  containers:
  - name: database
    image: postgres:latest
    ports:
    - containerPort: 5432
    env:
    - name: POSTGRES_USER
      value: "user"
    - name: POSTGRES_PASSWORD
      value: "password"
    - name: POSTGRES_DB
      value: "mydatabase"
  initContainers:
  - name: database-init
    image: busybox:1.31.1
    command: ['sh', '-c', 'until pg_isready -h localhost -p 5432 -U user; do echo "waiting for database..."; sleep 2; done; psql -h localhost -U user -d mydatabase -c "CREATE TABLE IF NOT EXISTS mytable (id SERIAL PRIMARY KEY, name TEXT);";']
```

2. □□□ □□: - □□□□□□ □□□ □□ □□□□ □□□□□. - □□□□□□ □□ □□□□ 'dependson'□ □□□□ □□□□□□ □□□ □□□□ □□ □□□□□□ □□(□ init □□□□) □ □□ □□□ □□□□□. - □:

```
apiVersion: v1
kind: Pod
metadata:
  name: app-pod
spec:
  containers:
  - name: app
    image: myapp:latest
    ports:
    - containerPort: 8080
    env:
    - name: DB_HOST
      value: database-pod
    - name: DB_PORT
      value: "5432"
    - name: DB_USER
      value: "user"
    - name: DB_PASSWORD
      value: "password"
    - name: DB_NAME
      value: "mydatabase"
  dependsOn:
  - name: database-pod
```

3. □□ □ □□□: - YAML □□□ □□□□ □□□ □□□□□. - init □□□□□ □□□□□ □□ □□ □□□ □□□ □□□□□ □□□□□. - □□□ □□□□ □□□□□□ □□□ □□□□ □ □ □□□□□□□ □□□□□□ □□□□□. - □□□□□□□ □□□□□ □□□□□□□ □□ □□ □□□□ □□□□□ □□□□□.

NEW QUESTION: 49

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Answer:

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□□□(□□□) :

1. □□ □□ □□ □□□(HPA) YAMLI □□

- □□ □□□ □□□□ 'auto-scaler.yaml'□□□ HPA YAML □□□ □□□□.

```
apiVersion: autoscaling/v2beta2
kind: HorizontalPodAutoscaler
metadata:
  name: auto-scaler
  namespace: your-application-namespace
spec:
  scaleTargetRef:
    apiVersion: apps/v1
    kind: Deployment
    name: your-deployment
  minReplicas: 1
  maxReplicas: 5
  metrics:
  - type: Resource
    resource:
      name: cpu
      target:
        type: Utilization
        averageUtilization: 70
  targetCPUUtilizationPercentage: 50
```


2. HPA □□: - 'kubectl apply -f auto-scaler.yamr' □□□ □□□□ HPA YAML □□□ □□□□□.
3. □□ □□□□ □□□ - □□□ CPU □□□□ □□□□□□□. □□□□ 70%□ □□□□ HPA □ □□□□ □□□ □□□□□. - CPIJ □□□□ 50% □□□□ □□□□ □□□ □□□□ □□ □□□□□.

NEW QUESTION: 50

Flask □□□□□□□ □□□□ 'my-app-deployment'□□ □□□ □□□□. Flask □□□□□□□ □□ '5000'□□ □□□□□ □□□□ □□ □□□□ □□□□□□□ □□□ □□□ □□□ □□ □□ □□□□ □□ □□□□ □□□□□ □□□. Kustomize□ □□□□ □□□ □□□□ □□□ □□.

Answer:

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□□□(□□□) :

1. □□ □□ □□□ □□□□.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-app:latest
        ports:
        - containerPort: 5000
```

2. 'kustomization.yamr' □□□ □□□□.

```yaml
resources:
- deployment.yaml
patchesStrategicMerge:
- patches/liveness-probe.yaml
- patches/readiness-probe.yaml
```

3. 'patcnes/liveness-probe.yaml'□ □□□□.

```yaml
spec:
  template:
    spec:
      containers:
      - name: my-app
        livenessProbe:
          tcpSocket:
            port: 5000
          initialDelaySeconds: 15
          periodSeconds: 20
          failureThreshold: 3
```

4. 'patches/readiness-probe-yaml'□ □□□□□.

5. Kustomize □□ □□: bash kustomize . I kubectl apply -t- - Liveness probe: □ □□□□ □□□ □□□□ □□ □□ □□□□ □□ □□□ □□□□□. TCP □□□ □□□□ □□ '5000'□ □□□ □ □ □□ □□(cneck)□ □□□ □□ 15□ □□ □□□□□. 20□□□ □□□□, 3□ □□ □□□ □ Pod□ □□ □□□□□. - Readiness probe: □ □□□□ □□□□□□□ □□□ □□□ □□ □ □□□□ □□□□□. □□ TCP □□□ □□□□ □□ '5000'□ □□□□□. 10□□□ □□□ □ □ □□ □□(cneck)□ □□□ □□ 5□ □□ □□□□□. 2□ □□ □□□□ Pod□ □□□□□ □□□□ □□□ □□□□ □□□□□. □□: Flask □□□□□□□ □□□ □□ '5000'□□ □□ □□□□ □□□ □□□□□ □□□□□.

NEW QUESTION: 51

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Answer:

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1. □□ YAMLI □□□□

- 'strategy.type'□ 'RollingLJpdate'□ □□□□□.

- □□□□ □□ □□□ □ □□ □□□ □□ □□□□□ 'strategy.rollingupdate.maxunavailable'□ 'l'□ □□□□□.

- □□□□ □□□□ □□ □□ 6□□ □□□□ □□□□□ 'strategy-rollinglJpdate.maxSurge'□ □□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-critical-service
spec:
  replicas: 5
  selector:
    matchLabels:
      app: my-critical-service
  template:
    metadata:
      labels:
        app: my-critical-service
    spec:
      containers:
      - name: my-critical-service
        image: my-critical-service:latest
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 1
```

2. □□□□ □□ □□(□□ □□): - □□□□□ 'strategy-rollingUpdate.partition'□ □□□□ □ □ □ □□□□□□ □□ □□ □□□ □ □□□□. □□□ □□ □ □□ □□□□□□ □□ □□ □□ □□□□ □□□ □□ □ □□□□. □□ □□, 'partition'□ '2'□ □□□□ □ □□ □ □□ □□□ □□□□□□□.

3. □□□ □□□□□ □□□□□□□. - 'kubectl apply -f my-critical-service-deployment.yaml'□ □□□□ □□□□□ YAML □□□ □□□□□. 4. □□□□ □□□: - □□□□□□ □□□□ □ □ □□□□ □□□□□□□. - □ □□□□ □□□□ □□□□□□ □□□□ □□□□□ □□□ □ □ □□□□. 5. □□□□ □□□□: - 'kubectl get pods -l app=my-critical-service'□ □□□□ □□ □□□□ □□□□ □□ □□ □□□□□ □□□□□□□. - □□□ □ □□ □□□ □□□□ □□ □□ □□□□ □□ □□ 4□□ □□□□ □□□ □ □□□ □□□□□. 6. □□□□ □□ □ □: - □□□□□ □□□□ 'kubectl describe deployment my-critical-service'□ □□□□ 'updatedReplicaS' □□□ 'replicas' □□□ □□□□□ □□□□□.

NEW QUESTION: 52

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kdsn00101 □□□□□□□ □□ □□□ kdsn00101-deployment□□ □□□ □□□□□. □□□ □□ □□□□□.

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□□□□, kdsn00l01 □□□□□□□ □□□ □□□□ □□□□ □□□□□.

* TCP □□ 8080□□ □□□□ □□□□□.

*□ kdsn00l01-deployment □□□ □□ □□□ □□□ □□□□□.

* NodePort □□□□□.

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Answer:

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NEW QUESTION: 53

PostgreSQL □□□□□□ □□□ □□□ Spring Boot □□□□□□□ □□□□. □□□ Pod □□ PostgreSQL □□□□□ □□□□ □□□□ □□□□ □□□ □□□□ □□□□□□□ □□□□ □□ □□ □□□ □□□□□. □□□□□□□ PostgreSQL □□□□□ □□□ □□□ □□ □□ □□□□□ □□□ □ □□□ □□□□□.

Answer:

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1. PostgreSQL □□□□ □□:

- PostgreSQL □□□□□ □□□□□ □□□□ □□ YAML □□(□: 'postgresql-sidecar.yaml')□ □□□□.

- PostgreSQL □□□□□ □□ □□□, □□□ □□ □ □□□ □□□□□.

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- □□□□□□ □□□□ □□ □□ □□ □□□(PVC)□ □□□□ □□ □□ □□□□ □□□□ □.

```
apiVersion: v1
kind: Pod
metadata:
  name: spring-boot-app-with-sidecar
spec:
  containers:
  - name: spring-boot-app
    image: your-spring-boot-application-image:latest
    ports:
    - containerPort: 8080
    env:
    - name: DB_HOST
      value: postgresql-sidecar
    - name: DB_PORT
      value: "5432"
    - name: DB_USER
      value: "postgres"
    - name: DB_PASSWORD
      value: "your-password"
    volumeMounts:
    - name: postgresql-data
      mountPath: /var/lib/postgresql/data
  - name: postgresql-sidecar
    image: postgres:latest
    ports:
    - containerPort: 5432
    env:
    - name: POSTGRES_USER
      value: "postgres"
    - name: POSTGRES_PASSWORD
      value: "your-password"
    - name: POSTGRES_DB
      value: "your-database-name"
    volumeMounts:
    - name: postgresql-data
      mountPath: /var/lib/postgresql/data
  volumes:
  - name: postgresql-data
    persistentVolumeClaim:
      claimName: your-pvc-name
```


2. □□ □□ □□□(PVC) □□: - PostgreSQL □□□□ □□□ PVC(□: 'postgresql-pvc.yaml')□ □□□□□. - PVC□ □□ □□□□ □□□, □□□ □□ □ □□□□ □□□ □□□□□.

3. Spring Boot □□□□□□ □□ - □□□ □□ □□□ □□□□ Spring Boot □□□□□□□ □ □□□□□ □□□□□□□ □□□□□. - □□□□□□ □□□ PostgreSQL □□□□□□□ □ □□□□□ □□□ □□ 'postgresql-sidecar'□ □□□□□. 4. Pod □□: - 'kubectl apply -f spring-boot-app-with-sidecar_yaml'□ □□□□ YAML □□□ □□□□ Pod□ □□□□. 5. □□ □□: - 'kubectl get pods'□ □□□□ Pod □□□ □□□□□. - Spring Boot □□□□□□ □□□□□ PostgreSQL □□□□ □□□□□ □□ □□ □□□ □□□□□. - □□□□□□□ □□□□□□ □□□□□ □□□□□□□ □□□□□ □□□□ □□□ □□□ □ □□□ □□□□□. □□ □□ □□: - 'your-spring-boot-application-image:latest', 'your-password', 'your-database-name', 'your-pvc-name' □ 'your-storage-class-name'□ □□ □□□ □□□□. - □□□□□□ □□ □□□ □ □ □□□□□ □□ □□□ □□ □ □□□ □□□□ □ □□ □□□□. - PostgreSQL □□□□□ □□□□□□□ □□□□□ □□□□ □□□□ □□□□□.]

NEW QUESTION: 54

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Answer:

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1. □□□ □□ □□ □□:

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- Kubernetes □□□□ □□ □□□ □□□□ □□□□□.

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2. StatefulSet□□ □□□ □□ □ □□□ □□□□□.

- □□□□□ □□ □□□ □□ □ □□ □□□ □□□□ StatefulSet YAML □□□ □□□□□□ □.

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- limits: Pod□ □□□ □ □□ □□□□ □□□□ □□□□□.

3. StatefulSet □□ □□: - □□□□□ StatefulSet □□□ Kubernetes □□□□□ □□□□□: bash kubectl apply -f my-critical-app-statefulset.yaml 4. □□□ □□□ □□□□: - 'kubectl describe pod'□ □□□□ □□□ □□□ □□□□ □□□□□□□. - □□□ □□□ □□□□ □ □□□ □□ □□□ □□□□ □□□ □□□□□.

NEW QUESTION: 55

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Answer:

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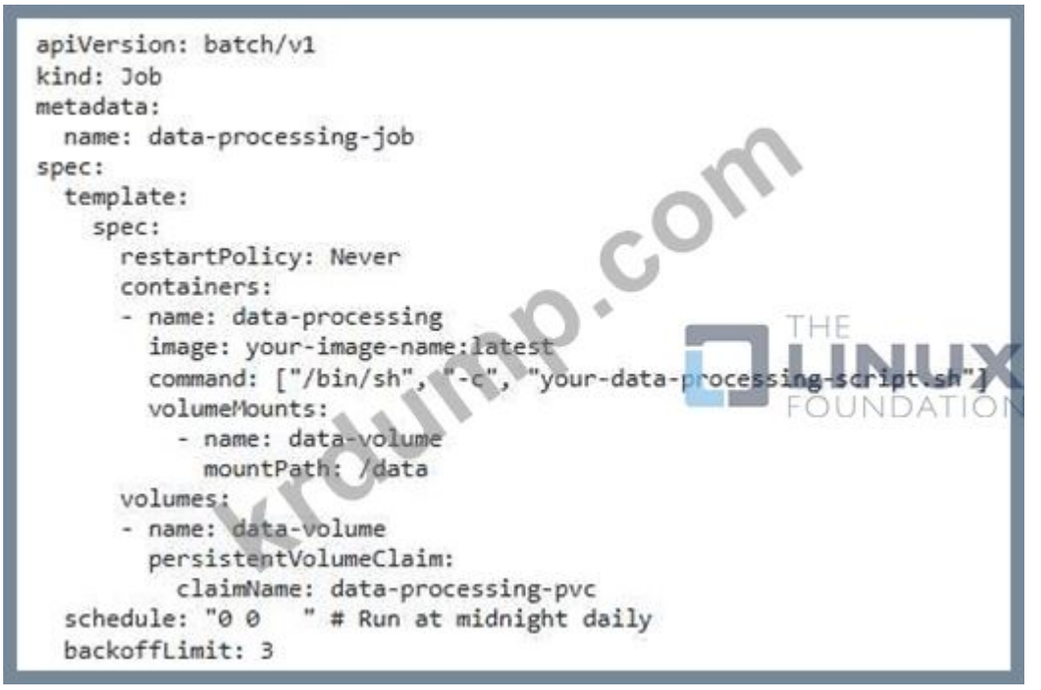
- □□□ □□ □□□ □□□□ □□ □□ □□ □□□(PVC)□ □□□□□.
- □□□□ □□□ □□ □□□ □□□ □□□□ □□□□ □□□□□.

2. □□ □□□ □□: - 'cronJob' □□□ □□□□ □□ □□□ □□□ □□□□□ □□ □□□□ □□□□. - □□ □ □□□ □□□ □□□□ □□ 'backoffLimit'□ □□□□□. - □□□ □□ □□ □□□ □□□□ □□□□□ □□ 'spec-template.spec.containers' □□□ □□□□□. -

'volumeMounts'□ □□□□ PVC□ □□□□□ □□□□□□.



```
apiVersion: batch/v1
kind: Job
metadata:
  name: data-processing-job
spec:
  template:
    spec:
      restartPolicy: Never
      containers:
      - name: data-processing
        image: your-image-name:latest
        command: ["/bin/sh", "-c", "your-data-processing-script.sh"]
        volumeMounts:
          - name: data-volume
            mountPath: /data
      volumes:
      - name: data-volume
        persistentVolumeClaim:
          claimName: data-processing-pvc
  schedule: "0 0   " # Run at midnight daily
  backoffLimit: 3
```


3. □□ □□: - 'kubectl apply -f data-processing-job.yamr' □□□ □□□□ □□ YAML □□□ □ □□□□. 4. □□ □□ □□: - 'kubectl get jobS' □□□ □□□□ □□ □□□ □□□□□□□. - 'status.completionTime' □□□ □□□□ □□□ □□□□□ □□□□□□ □□□□□. - □□ □ □□□ □□□□ □□ □□□ □□□□□□ □□□□□. 5. □□□□ □□□□ - □□□□ □□□ □ □□□ "ldata" □□□□□ □□□□ □ □□□ □□□□ 'your-data-processing-script.sh' □□□ □□□□□□□. 6. □□ □□□□: - 'kubectl logs' □□□ □□□□ □□□ □□□ □□□ □□□ □□ □□□□□□ □□□ □□□□□ □□□□□ □□□□□. □□: 'your-image-namelatest'□ 'your-data-processing-scriptsh'□ □□ □□ □□□ □□□ □□□□ □□□ □□□□.

NEW QUESTION: 56

'my-app'□□□ □□□ □□ □□□□□ □□□□□ □□, □ □□□□ □□□□□□□ □□ □□ □□ □□□□ □□□□. □□□ □□ □□□□ □□□□□ APL□ □□ □□□□□□□ □□□ □ □□□ □ □□□ □□ □□□. "□□□" □□□ □□□□ 'my-app' □□□ □□□ □□□□ □ □ □□ □□ □□ □□ □□□ □□(RBAC) □□□ □□□□ □□□.

Answer:

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□□:

□□□(□□□) :

1. □□ □□: 'my-app' □□ □□□ □□ □□□ □□□ □□□□ □□□ □□□□□.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: my-app-pod-reader
  namespace: default  # Replace 'default' with your namespace
rules:
- apiGroups: ["apps"]
  resources: ["deployments/pods"]
  verbs: ["get", "list", "watch"]
```

2. RoleBinding□ □□□□. □□□ □□□ '□□□' □□□ □□□□□.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: my-app-pod-reader-binding
  namespace: default  # Replace 'default' with your namespace
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: my-app-pod-reader
subjects:
- kind: Group
  name: developers
```

3. □□ □ □□ □□□ □□: 'kubectl apply'□ □□□□ □□ □ ROIeBinding □□□□ □□□□ □. bash kubectl apply -f my-app-pod-readenyaml kubectl apply -f my-app-pod-reader-binding.yaml 4. □□□ □□: "developers" □□□ □□□□ 'my-app' □□□ □□□ □□□□ □□ □. □□□ □□□□ □ □□□ □□□. 'developers' □□□ □□□ □□ □□□□ □□□ □□□□ □□□. □□□ □□□□□ □□□ □□□ □□□□.

NEW QUESTION: 57

□:

-/human-stork/build/Dockerfile□ Dockerfile□ □□□□□□□.

1) □□□ Dockerfile□ □□□□ macque□ lag 3.0□□□ □□□ □□□□ □□□□ □□□□□. □□□ □□□ □□□□ □□□ □ □□□□.

2) □□□ □□□ □□□□ □□□ □□□□ □□□□ OC □□□□ □□□□ -/human stork/macque 3.0 tar□ □□□□□. □□□ □□□□ □□□□□.

Answer:

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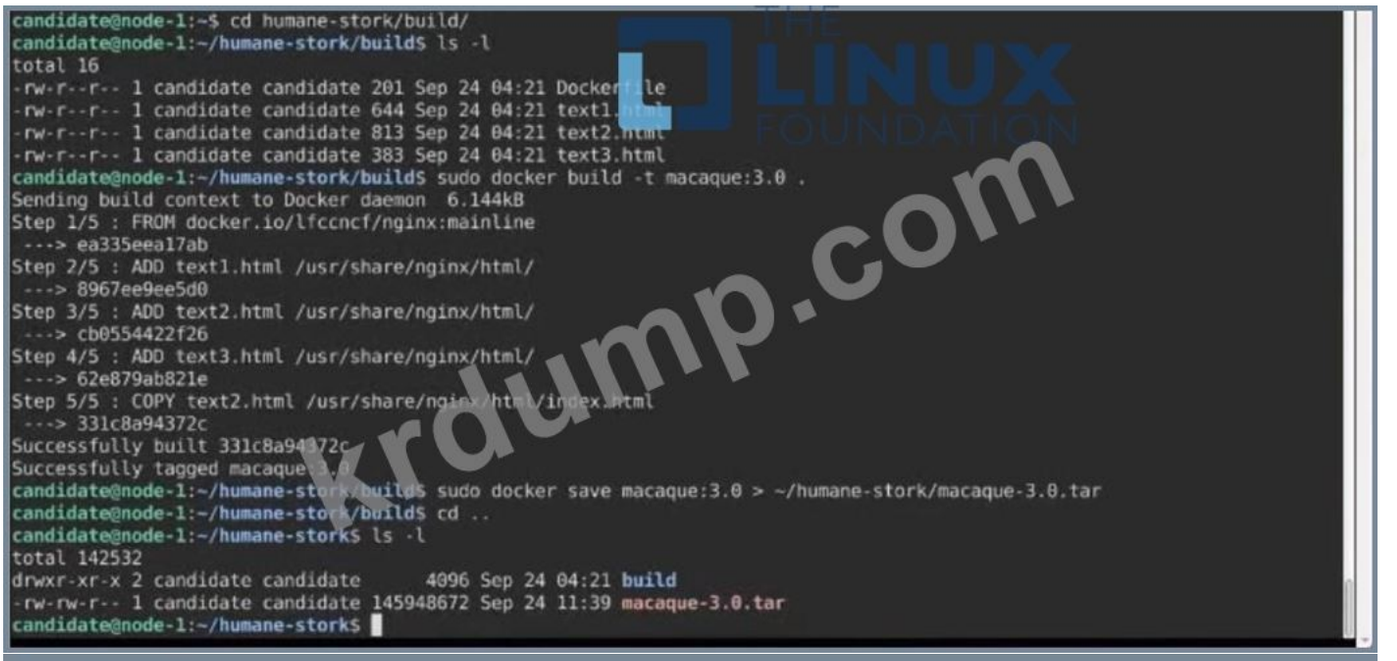
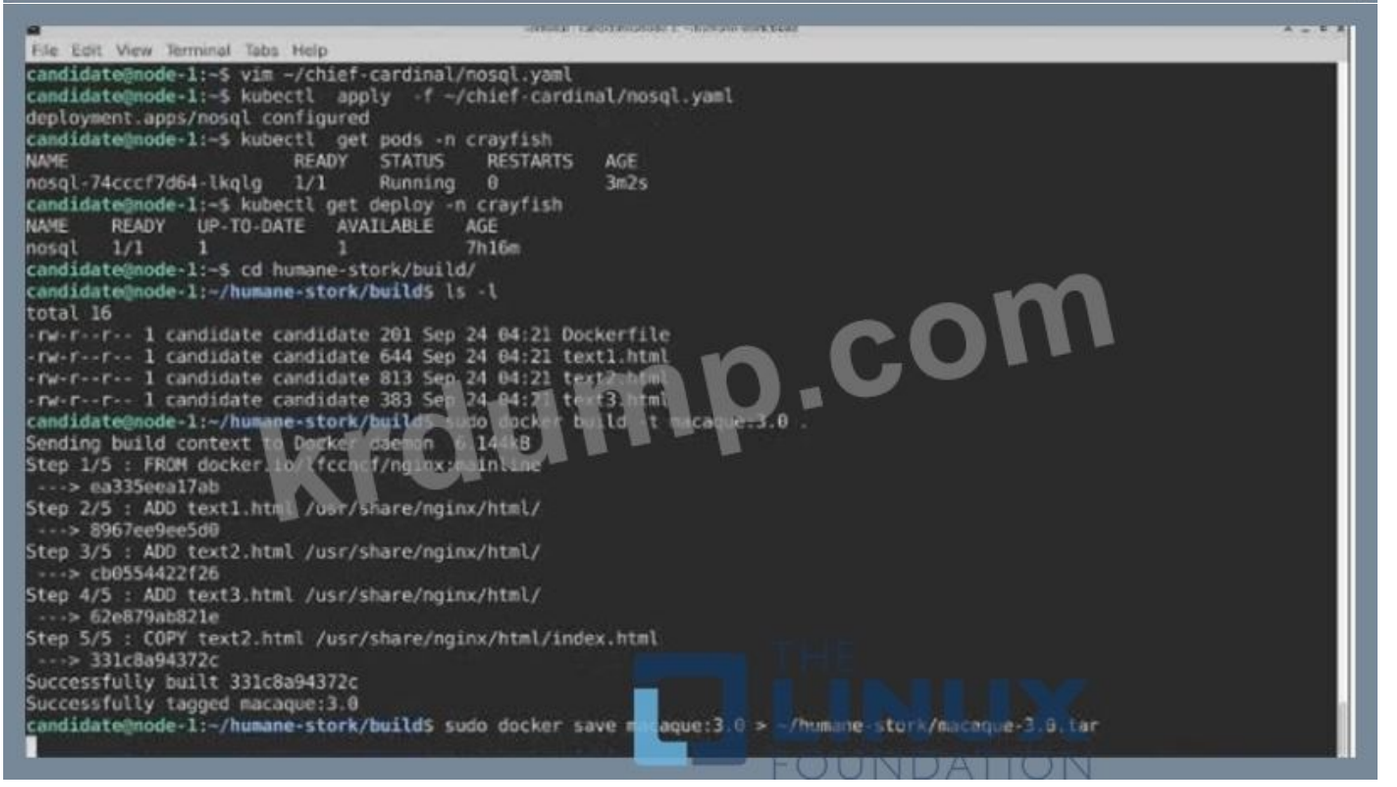
□□□:





NEW QUESTION: 58

□□ □□□ Maven□ □□□□ Java □□□□□□□ □□□□ □□□□ □□□□□ □□□□. □ □□ □□□□ □□□ □□□ □□□□ □□ Docketflle□ □ Maven □□□ □□□ □□□□ □□ □ □□□.

Answer:

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□□:

□□□(□□□) :

1. □□ □□□ □□:

- □□□ Java □□□ □□(OpenJDK □)□ □□□ □□ □□(□: Debian, Ubuntu)□ □□□□ □

□ □□□□ □□□□□.
- □:
□□□
openjdk□□: 11 -jre-slim-buster
2. Maven □□(□□ □□):
- 'wget'□ □□□□ □□□□ □□□ Maven □□□ □□□□□□ □□□□□.
- □:
□□□
wget -nv https://apache.org/dyn/closer.lua/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.tar.gz□ □□□□□.
&& tar -xzf apache-maven-3.8.6-bin.tar.gz -C lusr/local \
&& In -s /usr/local/apache-maven-3.8.6/bin/mvn /usr/bin/mvn \
&& rm apache-maven-3.8.6-bin.tar.gz
3. □□□□□□ □□ □□:
- Java □□□□□□ □□□ 'pom.xmr □□'□ Docker □□□□ □□□□□.
- □:
□□□□
□□
4. Java □□□□□□ □□:
- 'mvn' □□□ □□□□ 'RUN' □□□□ □□□□ Java □□□□□□□ □□□□□.
- □:
□□□□
RUN mvn clean □□□
5. □□□ □□(□□ □□):
- □□□□□□□ □□ □□□ □□□ □□□ □□ Docker □□□□ □□ □□□ □□□□□.
- □:
□□□
□□□ ["java", "-jar", "target/your-app.jar"]
6. □□ □ □□:
- 'docker build'□ □□□□ Docker □□□□ □□□□□.
- □□□□ Kubernetes□ □□□□□.
- □□□ □□ □□□□□□□□ □□□ □ □□ Maven □□□ □□□□□.

NEW QUESTION: 59
□□□□ 3□□ □□□□□□ □□□□ □□ □□□ □□□□ □□□□. □ □□ □□□ Pod□ □ □□□□□□ □□, □□□□ □□□□ □□ □□□□□□ □□□□ □□ □□□ □ □□□ □□ □□ □□□. □□ □□ □□□ □□□ □□□□ □□□?
Answer:
□□□ □□□ □□ □□□ □□□□ □□□□□.
□□:
□□□(□□□) :

1. □□ YAMLI □□□□
- '□□□'□ 3□□ □□□□□□□.
- 'strategy-rollingupdate' □□□□ 'maxiJnavailable: 1'□ 'maxSurge: O'□ □□□□ □□ □□□□ □□□□□ □□□□□.
- □□□□ □□ □□□ '□□ □□□'□ □□□□ □□□□□□□ □□□□□ □□□□ □□□ □ □□□ □□□ □□□ □□□ □□□□□ □□□.
- □□□ □□□□□ □ □□ □□□□□ □□□□□□ 'strategy-type'□ 'RollingUpdate'□ □□□ □□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: database-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: database
  template:
    metadata:
      labels:
        app: database
    spec:
      containers:
      - name: database
        image: database-image:latest
        imagePullPolicy: Always
        readinessProbe:
          tcpSocket:
            port: 5432
          initialDelaySeconds: 15
          periodSeconds: 5
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 0
```

2. □□ □□: - 'kubectl apply -f database-deployment-yamp'□ □□□□ □□□□□ YAML □□□ □□□□□. 3. □□ □□: 'kubectl get deployments database-deployment'□ □□□□ □□ □□ □ □□□□ □□□ □ □□□□□ □□□ □□ □□□□□. 4. □□ □□□□ □□□: - Docker Hub □□□□ □ □□□□ □□□□□. 5. □□ □□□□: 'kubectl get pods -l'□ □□□□ □□ □ □□□ □□□□ □□ □□ □□□□□ □□□□□□□. □ □□ □□□ □□□ □□□□ □□ □ □□ □ □□□□. □□ □□□□ □ □□□ □□□□□□□ □□□□□ □□□ □□ □□□ □□ □ □□□□□. 6. □□□□ □□ □□: - □□□ □□□□ 'kubectl describe deployment database-deployment'□ □□□□ 'updatedReplicas' □□□ 'replicas' □□□ □□□□□ □□□□□. □□ □□□□□ □□□□□ □□□□□.

NEW QUESTION: 60
□□ □□□ 'requests' □□□□□□ □□□ Python □□□□□□□ □□□□ □□□□ □□□□ □□□□. 'requests' □□□□□□ Dockerfile□ □□□□ □□□□□□□ □□□□ □□□ □□ □□□□□□ □□□□□ □□□ □ □□□ □□ □□□ □□□ □□□.

Answer:
□□□ □□□ □□ □□□ □□□□ □□□□□.
□□:
□□□(□□□) :
1. Dockerfile□ 'requests □□□□□'□ □□□□□.

- Dockerfile□□ 'RUN' □□□□ □□□□ □□□□□□ □□□□□.
- 'pip' □□□ □□□□ □□□□ □□□□□□□ □□□ □□ □□□ □□□ □□□□□.

```
FROM python:3.9

WORKDIR /app

COPY requirements.txt .

RUN pip install -r requirements.txt

COPY . .

CMD ["python", "app.py"]
```

- □□□ Python □□ □□□□ □□□□. - 'requirements-txt' □□□ □□□ □□□, □□ 'requests'□ □□ □□□ □□□□ □□□ □□□□□. - 'COPY' □□□ □□□□ □□□□□□ □ □□ □□ □□□ □□□□□ □□□□□. 2. Python □□□□□□□□ 'requests' □□□□□□ □ □□□ □□□□□. - Python □□□□□□ □□(□ □□□□ Capp.pys)□□ 'requests' □□□□ □□ □□□□□. - □□□ □□□□□ □□□ □□□□ □□□□□□ □□□□ □□□ □□ HTTP □□□ □□□□.

```
import requests

def main():
    response = requests.get("https://example.com")
    print(response.status_code)

if __name__ == "__main__":
    main()
```

3. Docker □□□ □□: - □□□□□ 'docker build' □□□ □□□□ Dockerfile □□□ □□□ □□ □ □□□□□. docker build -t my-python-app . 4. □□□□ □□: - 'docker run' □□□ □□□□ □□□ □□□ □□□□ □□□□□ □□□□□. docker run -it my-python-app - □□□□□ Python □□□□□□□ □□□□ 'requests' □□□□□□ □□□□ □□ □□□ □□□ □ □□□ □.

NEW QUESTION: 61
□□

□:
-/human-stork/build/Dockerfile□ Dockerfile□ □□□□□□□.
1) □□□ Dockerfile□ □□□□ macque□ lag 3.0□□□ □□□ □□□□ □□□□ □□□□□. □□□ □□□ □□□□ □□□ □ □□□□.

2) □□□ □□□ □□□□ □□□ □□□□ □□□□ OC □□□□ □□□□ -/human stork/macque 3.0 tar□ □□□□□.

Answer:

□□□:

```
candidate@node-1:~$ cd humane-stork/build/
candidate@node-1:~/humane-stork/build$ ls -l
total 16
-rw-r--r-- 1 candidate candidate 201 Sep 24 04:21 Dockerfile
-rw-r--r-- 1 candidate candidate 644 Sep 24 04:21 text1.html
-rw-r--r-- 1 candidate candidate 813 Sep 24 04:21 text2.html
-rw-r--r-- 1 candidate candidate 383 Sep 24 04:21 text3.html
candidate@node-1:~/humane-stork/build$ sudo docker build -t macaque:3.0 .
Sending build context to Docker daemon  6.144kB
Step 1/5 : FROM docker.io/lfccncf/nginx:mainline
 ---> ea335eea17ab
Step 2/5 : ADD text1.html /usr/share/nginx/html/
 ---> 8967ee9ee5d0
Step 3/5 : ADD text2.html /usr/share/nginx/html/
 ---> cb0554422f26
Step 4/5 : ADD text3.html /usr/share/nginx/html/
 ---> 62e879ab821e
Step 5/5 : COPY text2.html /usr/share/nginx/html/index.html
 ---> 331c8a94372c
Successfully built 331c8a94372c
Successfully tagged macaque:3.0
candidate@node-1:~/humane-stork/build$ sudo docker save macaque:3.0 > ~/humane-stork/macaque-3.0.tar
candidate@node-1:~/humane-stork/build$ cd ..
candidate@node-1:~/humane-stork$ ls -l
total 142532
drwxr-xr-x 2 candidate candidate      4096 Sep 24 04:21 build
-rw-rw-r-- 1 candidate candidate 145948672 Sep 24 11:39 macaque-3.0.tar
candidate@node-1:~/humane-stork$
```


NEW QUESTION: 62

'wordpress-statefulset'□□□ □□□ statefulset□□ WordPress □□□□□□□ □□□□ □□ □, □□□□□□ □□□ □□□□ □□□ □□□□ □□□□□□□ □□□□□ □□□□□□ □ □□□. □□ Kubernetes □□□□ □□□ □□□□ □□□ □□□□ □□ □□ □ □□ □□□ □ □□ □□□.

Answer:

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□□:

□□□(□□□) :

1. Pod □□ □□:

- 'kubectl logs -c database'□ □□□□ □□□□□□ □□□ □□□ □□□□□. - □□□□ □□

□ □□□ □□□ □ □□ □□ □□□□ □□□ □□□□.
2. □□□ □□□ □□:
- 'kubectl top pods -l app=wordpress-statefulset'□ □□□□ □□□□□□ Pod□ CPU □ □□□ □□□□ □□□□□. □□□ □□□□ □□□ □□□ □□ □□□ □□ □ □□□□.
3. Pod □□□ □□:
- 'kubectl describe pod' □□□ □□□□ □□□□□□ Pod □□ □□□□ □□□□□. "Back-Off" □□ "Failed"□ □□ □□□□ □□□ □□□□□. □□ □□□ □□ □□ □□ □□□ □□□ □ □□□□.
4. □□ □□ □□□ □□:
- 'kubectl describe pvc' □□□ □□□□ □□□□□□ Pod□□ □□□□ □□ □□ □□□□ □ □□ □□□□□. □□□□ □□ □□□ □□, □□□ □□□ □□□ □ □□□□.
5. □□ □□ □□:
- 'kubectl describe node' □□□□ □□□□ □□□□□□ □□□ □□ □□ □□□ □□□ □□□ □□. □□□ □□□ □□□□□ □□□ □□□ □□ □□□□ □□□ □□ □ □□□□.
6. □□□□ □□ □□:
- □□□□□□ □□□ StatefulSet□ □□ □□ □□ □□□□ □□□ □□□□□. 'ping'□□ 'nc'□ □□ □□□ □□□□ □□□ □□□□□□.
7. □□□□□□ □□ □□:
- □□□□□□ □□□ MySQL□□ PostgreSQL□ □□ □□□□□□□ □□□□ □□, □□□□ □□□ □□□ □ □□ □□□□ □□□ □□□ □□□ □□□□□□ □□ □□□ □□□□□.
8. □□ □□ □□:
- StatefulSet□ □□ □□□ □□□□□□□ □□□□ □□□□□. □□□□ □ □□□□□ □□ □□□ □□ 'maxunavailable' □□□ □□□ □□ □□□□ □□□ □□□□ □□ □□□□.
9. □□□ □□□□ □□□:
- 'kubectl exec' □□ 'kubectl port-forward'□ □□ □□□ □□□□ □□□□□□ □□□ □□□□ □□□□ □□□□ □□ □□□ □□□ □□□ □□□□□. □□ □□ □□□ □□ □□□□□ □ □□ □ □□□□.
10. □□□□□□ □□□ □□□□□.
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NEW QUESTION: 63
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Answer:
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□□:
□□□(□□□) :
1. Prometheus □□: Prometheus□ □□□□ □□□□ □□□□ □□□□ □□□□ □□□□□

□. □□□ □□□□ Kubernetes □□□□□ Prometheus□ □□□ □ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: prometheus
spec:
  replicas: 1
  selector:
    matchLabels:
      app: prometheus
  template:
    metadata:
      labels:
        app: prometheus
    spec:
      containers:
      - name: prometheus
        image: prom/prometheus:v2.37.1
        ports:
        - containerPort: 9090
        volumeMounts:
        - name: prometheus-config
          mountPath: /etc/prometheus
      volumes:
      - name: prometheus-config
        configMap:
          name: prometheus-config
```


2 Prometheus□ □□ ConfigMap□ □□□□. □□□ □□□□ □□ □ □□ □□□□ Prometheus□ □□□□ □□ ConfigMap□ □□□□□.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: prometheus-config
data:
  prometheus.yml: |-
    global:
      scrape_interval: 15s
    scrape_configs:
    - job_name: 'kubernetes-pods'
      kubernetes_sd_configs:
      - role: pod
        namespaces:
        - default
        - kube-system
      relabel_configs:
      - source_labels: [__meta_kubernetes_pod_label_app]
        regex: '(.)'
        target_label: app
      - source_labels: [__meta_kubernetes_pod_name]
        target_label: pod
      - source_labels: [__meta_kubernetes_pod_container_port]
        regex: '(.)'
        target_label: container_port
      - source_labels: [__meta_kubernetes_namespace]
        regex: '(.)'
        target_label: namespace
      - source_labels: [__meta_kubernetes_pod_annotation_prometheus_io_scrape]
        regex: 'true'
        action: keep
      - source_labels: [__address__]
        regex: '(.):(.)'
        replacement: '$1'
        target_label: __address__
      - source_labels: [__param_target_port]
        regex: '(.)'
        replacement: '$1'
        target_label: __param_target_port
      - source_labels: [__meta_kubernetes_pod_annotation_prometheus_io_path]
        regex: '(.)'
        replacement: '$1'
        target_label:   param target path
```

3. Prometheus□ □□ □□□ □□□: □□□□ □□□□ Prometheus□ □□□□ □□□□ □□ □□.

```
apiVersion: v1
kind: Service
metadata:
  name: prometheus
spec:
  ports:
  - port: 9090
    targetPort: 9090
  selector:
    app: prometheus
  type: LoadBalancer
```

4. Grafana □□: Grafana□ □□ □□ □□□□ □□□□ □ □□□ □□□□□. □□□ □□□□ □□□□□ □□□□□ Grafana□ □□□ □ □□□□.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: grafana
spec:
  replicas: 1
  selector:
    matchLabels:
      app: grafana
  template:
    metadata:
      labels:
        app: grafana
    spec:
      containers:
      - name: grafana
        image: grafana/grafana:latest
        ports:
        - containerPort: 3000
        volumeMounts:
        - name: grafana-config
          mountPath: /etc/grafana
      volumes:
      - name: grafana-config
        configMap:
          name: grafana-config
```


5. Grafana□ □□ ConfigMap □□□: Prometheus□ □□□ □□□ □□□□ Grafana□ □□□ □ □□ ConfigMap□ □□□□.

```yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: grafana-config
data:
  dashboards.yaml: |-
    {
      "annotations": {
        "list": [
          {
            "builtIn": 1,
            "datasource": "-- Grafana --",
            "enable": true,
            "iconColor": "rgba(0, 211, 255, 1)",
            "name": "Annotations & Alerts",
            "type": "grafana"
          }
        ]
      },
      "editable": true,
      "gnetId": null,
      "graphTooltip": 0,
      "id": 1,
      "iteration": 1602859525986,
      "links": [],
      "panels": [
        {
          "datasource": "Prometheus",
          "fieldConfig": {
            "defaults": {
              "color": {
                "mode": "palette-classic"
              },
              "custom": {
                "axisLabel": "",
                "axisPlacement": "auto",
                "barAlignment": 0,
                "drawStyle": "line",
                "fill": 0,
                "fillColor": "rgba(216, 216, 216, 0.2)",
                "fillOpacity": 0.2,
                "gradientMode": "none",
                "hideFrom": {
```

```
            "legend": false,
            "tooltip": false,
            "viz": false
          },
          "lineInterpolation": "linear",
          "lineWidth": 2,
          "nullValueMode": "null",
          "percentage": false,
          "pointSize": 5,
          "showPoints": "auto",
          "spanNulls": false,
          "stack": false,
          "thresholds": [],
          "yAxis": {
            "format": "short",
            "label": null,
            "logBase": 1,
            "max": null,
            "min": null,
            "show": true,
            "ticks": [],
            "tickValues": []
          }
        },
        "mappings": [],
        "override": {},
        "thresholds": []
      }
    },
    "gridPos": {
      "h": 9,
      "w": 24,
      "x": 0,
      "y": 0
    },
    "id": 7,
    "options": {
      "legend": {
        "avg": false,
        "current": true,
        "max": false,
        "min": false,
        "show": true,
        "total": false,
        "values": false
      },
      "tooltip": {
        "shared": true,
        "sort": 0,
        "value_type": "individual"
      }
    },
    "pluginVersion": "9.2.1",
    "targets": [
      {
        "expr": "sum(rate(container_cpu_usage_seconds_total{pod=~\"$pod\", container=~\"$container\", instance=~\"$instance\"}[1m]))",
        "format": "time_series",
        "refId": "A",
        "step": 10,
        "type": "query"
      }
    ],
    "title": "CPU Usage",
    "type": "graph"
  }
],
"refresh": "5s",
"schemaVersion": 27,
"style": "dark",
"tags": [],
"templating": {
  "list": [
    {
      "allValue": ".*",
      "current": {
        "selected": false,
        "text": "All",
        "value": "$__all"
      },
      "datasource": "Prometheus",
      "definition": "label_values(container_cpu_usage_seconds_total, pod)",
      "description": "",
      "error": null,
      "hide": 0,
      "includeAll": true,
      "label": null,
      "multi": false,
      "name": "pod",
      "options": [],
      "query": {
        "query": "label_values(container_cpu_usage_seconds_total, pod)",
        "refId": "StandardVariableQuery"
      },
      "refresh": 1,
      "regex": "",
      "skipUrlSync": false,
      "sort": 0,
      "tagValuesQuery": "",
      "tagsQuery": "",
      "type": "query",
      "useTags": false
    },
    {
      "allValue": ".*",
      "current": {
        "selected": false,
        "text": "All",
        "value": "$__all"
      },
      "datasource": "Prometheus",
```

```
        "definition": "label_values(container_cpu_usage_seconds_total, container)",
        "description": "",
        "error": null,
        "hide": 0,
        "includeAll": true,
        "label": null,
        "multi": false,
        "name": "container",
        "options": [],
        "query": "",
        "queryType": "label_values",
        "refresh": 1,
        "regex": "",
        "sort": 0,
        "tags": [],
        "type": "query",
        "useTags": false,
        "value": ""
      },
      {
        "allValue": "",
        "current": {
          "selected": false,
          "text": "All",
          "value": "$__all"
        },
        "datasource": "Prometheus",
        "definition": "label_values(container_cpu_usage_seconds_total, instance)",
        "description": "",
        "error": null,
        "hide": 0,
        "includeAll": true,
        "label": null,
        "multi": false,
        "name": "instance",
        "options": [],
        "query": "",
        "queryType": "label_values",
        "refresh": 1,
        "regex": "",
        "sort": 0,
        "tags": [],
        "type": "query",
        "useTags": false,
        "value": "$__all"
      }
    ]
  },
  "time": {
    "from": "now-1h",
    "to": "now"
  },
  "timepicker": {
    "collapse": false,
    "enable": true,
    "refresh_intervals": [
      "5s",
      "10s",
      "30s",
      "1m",
      "5m",
      "15m",
      "30m",
      "1h",
      "2h",
      "1d"
    ],
    "time_options": [
      "5m",
      "15m",
      "1h",
      "6h",
      "12h",
      "24h",
      "2d",
      "7d",
      "30d"
    ]
  },
  "title": "Microservices Monitoring",
  "uid": "msmoz-zh",
  "version": 1
}
```


6. Grafana□ □□ □□□ □□□: □□□□ □□□□ Grafana□ □□□□ □□□□ □□□□.

```
apiVersion: v1
kind: Service
metadata:
  name: grafana
spec:
  ports:
  - port: 3000
    targetPort: 3000
  selector:
    app: grafana
  type: LoadBalancer
```

Gratana □□: Grafana □ □□□□□□ □□□□(LoadBalancer IP □□ □□) Prometheus□ □ □□□ □□□ □□□□□. Prometheus □□□ □□□ □□□□□. 8. □□□□ □□: Gratana□ □ □□□□□ □□□□ Prometheus□ □□□ □□□ □□□□□□. CPU □□□, □□□ □□□, □□□□ □□□, □□ □□ □□ □□□ □□□□ □□ □□□□□□□□ □□□□□ □□□ □ □□□□. 9. □□□□□□□ □□□□: □□□□□ □□□□ □□□□□□□□ □□□ □□□□ □□□ □□□□□ □□□□□ □ □□□□. Grafana□ □□ □□□ □□□□ □□ □□ □□□□ □□□ □□ □□□ □□ □ □□□□.

NEW QUESTION: 64

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```
<namespace>/<pod>
```

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* □□ □□ □□□□ /opt/KDOB00401/error.txt □□□ □□□□□. □□ □□□ □□ □□□□□ □□. □□□ □□ -o wide □□ □□□□ □□□□ □□□.
* □□□ □□□□□.

A. □□□:
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kubectl create -f http://k8s.io/docs/tasks/configure-pod-container/exec-liveness.yaml
30□ □□□ Pod □□□□ □□□□□.
kubectl describe pod liveness-exec
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SubobjectPath □□ □□ □□□□□ FirstSeen LastSeen Count□ □□□□□.
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24□ 24□ 1 {□□ □□□□} □□ □□□ liveness-exec□ worker0□ □□□□□ □□□
23□ 23□ 1 {kubelet worker0} spec.containers{liveness} □□ □□ □□□
"gcr.io/google_containers/busybox" □□
kubectl describe pod liveness-exec
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SubobjectPath □□ □□ □□□□□ FirstSeen LastSeen Count□ □□□□□.
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37□ 37□ 1 {□□ □□□□} □□ □□□ liveness-exec□ worker0□ □□□□□ □□□
36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□ □□ □□□
"gcr.io/google_containers/busybox" □□
36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□□□□ □□□ □□□□□

"gcr.io/google_containers/busybox" □□□□ □□□
36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□ □□□ docker id 86849c15382e□
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36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□ □□ docker id 86849c15382e□ □
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2□ 2□ 1 {kubelet worker0} spec.containers{liveness} □□ □□□ Liveness □□□□ □□□□□
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30□ □ □□□ □ □□□□□ □□ □□□□□□ □□□□□.
kubectl get pod liveness-exec
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□□ □□ □□ □□□ □□
liveness-exec 1/1 □□□ 1m
B. □□□:
□□ □□:
kubectl create -f http://k8s.io/docs/tasks/configure-pod-container/exec-liveness.yaml
30□ □□□ Pod □□□□ □□□□□.
kubectl describe pod liveness-exec
□□□ □□ □□ □□□□ □□□□ □□□□ □□□□□.
SubobjectPath □□ □□ □□□□□ FirstSeen LastSeen Count□ □□□□□.
--------- -------- ----- ---- ------------- -------- ------ -------
24□ 24□ 1 {□□ □□□□} □□ □□□ liveness-exec□ worker0□ □□□□□ □□□
23□ 23□ 1 {kubelet worker0} spec.containers{liveness} □□ □□ □□□
"gcr.io/google_containers/busybox" □□
23□ 23□ 1 {kubelet worker0} spec.containers{liveness} □□□□□ □□□ □□□□□
"gcr.io/google_containers/busybox" □□□□ □□□
23□ 23□ 1 {kubelet worker0} spec.containers{liveness} □□ □□□ docker id 86849c15382e□
□□□□ □□□; □□:[seccomp=unconfined]
23□ 23□ 1 {kubelet worker0} spec.containers{liveness} □□ □□ docker id 86849c15382e□ □
□□□ □□□
35□ □□ Pod □□□□ □□ □□□□□.
kubectl describe pod liveness-exec
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SubobjectPath □□ □□ □□□□□ FirstSeen LastSeen Count□ □□□□□.
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37□ 37□ 1 {□□ □□□□} □□ □□□ liveness-exec□ worker0□ □□□□□ □□□
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"gcr.io/google_containers/busybox" □□
36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□□□□ □□□ □□□□□
"gcr.io/google_containers/busybox" □□□□ □□□
36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□ □□□ docker id 86849c15382e□

□□□□ □□□; □□:[seccomp=unconfined]
36□ 36□ 1 {kubelet worker0} spec.containers{liveness} □□ □□ docker id 86849c15382e□ □ □□□ □□□
2□ 2□ 1 {kubelet worker0} spec.containers{liveness} □□ □□□ Liveness □□□□ □□□□□ □. cat: '/tmp/healthy'□ □ □ □□□□. □□ □□□□ □□□□□ □□□□.
30□ □ □□□ □ □□□□□ □□ □□□□□□ □□□□□.
kubectl get pod liveness-exec
□□□ RESTARTS□ □□□□□□ □□□□□.
□□ □□ □□ □□□ □□
liveness-exec 1/1 □□□ 1m
Answer: (SHOW ANSWER)

NEW QUESTION: 65
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Answer:
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□□:
□□□(□□□) :
1. StatefulSet YAML□ □□□□.

```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: my-database
spec:
  serviceName: "my-database"
  replicas: 3
  selector:
    matchLabels:
      app: my-database
  template:
    metadata:
      labels:
        app: my-database
    spec:
      containers:
      - name: database
        image: postgres:14.2
        ports:
        - containerPort: 5432
        volumeMounts:
        - name: data
          mountPath: /var/lib/postgresql/data
      volumes:
      - name: data
        persistentVolumeClaim:
          claimName: my-database-pvc
```

2. PersistentVolumeClaim(PVC)□ □□□□□.

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: my-database-pvc
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
```

3. StatefulSet □ PVC□ □□□□□. bash kubectl apply -f statefulset.yaml kubectl apply -f pvc.yaml 4. StatefulSet □ Pod□ □□□□□. bash kubectl get statefulsets my-database kubectl get pods -l app=my-database - StatefulSet □□□ □□ □□□□□□ Pod□ □□□ □□□ □□ □□ □□□ □□ □□□□ □□□□□. - serviceName: □ □□□ □□□□□□ □□□□□ □□ □□□ □ □□□□ □□□ □□□ □□□□□. - replicas: □□□ □□□□□□ □□□□ □(□ □ □□□ 3□)□ □□□□□. - selector: "app: my-database" □□□□ □□ Pod□ □□□□□□. - template: □ □□□□□ □□□ Pod □□□□ □□□□□. - containers: □□□□□□ □□□□ □□□ □□□□ □□□□. - ports: □□□□□□□ □□ □□(5432)□ □□□ □□□□□. - volumeMounts: □□ □□ □□□□ □□□□□ □□□ □□□□□ □□□□□□. - volumes: □□ □ □□□ □□□□□. □ □□ □□ □□ □□□□ □□□□□. - persistentVolumeClaim: StatefulSet□ PVC□ □□□□□. - PVC(my-database-pvc): □ □□□□□□ □□□ □□ 1Gi□ □□ □□□ □□□□□. □□□ □□ □□□ □□ □□□□ □□□□□ □□□□□. - accessM0des: ReadWriteOnce: □ □□ □□□ □□□ □□□ □□□□□□ □□□□□. - resources-requests-storage: □ PVC□ □□ □□□□ □□□ □□□□□. □ □□□ □□ □ □□ □□□□ □□□ □□□ □□□□□. - StatefulSet □□□□ □□□ □□□ □□□□ □□□ □□ □ □□□□. - PVC□ □□□□ □□ □□□□□ □□□□. - □□□ □□□□ □□ □□ □□□ □ □□ □ □□□□. - □□ □□□□□□ □□□ □□□□ □□□ □□□ □□□□□.

NEW QUESTION: 66

Kubernetes □□□□ □□□□ □□□□ □□□□□□□ □□□□□ □□ □□□□□□ □□□ □□□□ □□□□ □□□□. API □□ □□□□ □□ □□□□□□□ □□□□ □ □□ □□ □□ □ □□ □□□ □□□ □□□□ □□□.

Answer:

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□□□(□□□) :

1. □□□ □□ □□□:

- □□ □□□ □□□□ 'database-service-account.yamr'□□□ □□□ □□□ □□ YAML □□□ □□□□.

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: database-service-account
  namespace: your-application-namespace
```

2. API □□ □□ □□□ □□□□. - □□ □□□ □□□□ 'database-api-key.yaml'□□□ □□

YAML □□□ □□□□.

```yaml
apiVersion: v1
kind: Secret
metadata:
  name: database-api-key
  namespace: your-application-namespace
type: Opaque
data:
  api_key:
```

3. □□ □ □□ □□ □□□: - □□ □□□ □□□□ 'database-role.yaml'□□□ □□ YAML □□ □ □□□□.

```yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: database-role
  namespace: your-application-namespace
rules:
- apiGroups: [""]
  resources: ["secrets"]
  verbs: ["get", "list", "watch"]
```

4. ROleBinding YAML□ □□□□. - □□ □□□ □□□□ 'database-rolebinding.yamr'□□□ □ □□ RoleBinding YAML □□□ □□□□.

```yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: database-rolebinding
  namespace: your-application-namespace
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: database-role
subjects:
- kind: ServiceAccount
  name: database-service-account
  namespace: your-application-namespace
```

5. YAML □□ □□: - 'kubectl apply -f database-service-account.yamr', 'kubectl apply -f database-api-key.yamr', 'kubectl apply -f database-role.yamr', 'kubectl apply -f database-rolebinding.yamr'□ □□□□ □□□ YAML □□□ □□□□□. 6. □□ □□□□: - 'database-service-account'□ □□ □□ API □□ □□□ □□□ □□□□□□ □□□□□□ □□□ □□□□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: your-application-deployment
  namespace: your-application-namespace
spec:
  template:
    spec:
      serviceAccountName: database-service-account
      containers:
      - name: your-application
        image: your-application-image
        env:
        - name: DATABASE_API_KEY
          valueFrom:
            secretKeyRef:
              name: database-api-key
              key: api_key
```

7. □□ □□□□□□□ □□□: - □□ □□□□□□ □□□□□ □□□ □□□ API □□ □□□ □ □□ □□□□□□□ □□□□ □ □□□ □□□.

NEW QUESTION: 67

'wordpress-deployment'□□ □□□ Kubernetes □□□ □□□, WordPress □□□□□□□ □□ □□□□□ □□□□□. 'maxSurge'□ 1□ □□□□ 'maxi-Jnavailable'□ 0□□ □□□□ □□ □ □□□ □□□ □□□□□ □□□. □□ Docker Hub □□□ 'wordpress-image:latests'□ □ □□ □□ □□□ □ □□□□ □□□□□ □□□□ □□□□□ □□ □□□. □□ □□ □□□ □□ □ □□ □□□□□.

Answer:

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□□□(□□□) :

1. □□□ □□□□□ 'kustomization.yamr' □□□ □□□□.

```
resources:
- deployment.yaml
patchesStrategicMerge:
- patch.yaml
```

2. □□ □□□ 'deployment-yamr □□'□ □□□□(□□ □□ □□□ □□□□□).

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: wordpress
  template:
    metadata:
      labels:
        app: wordpress
    spec:
      containers:
      - name: wordpress
        image: wordpress-image:latest
        imagePullPolicy: Always
```

3. □□ □□□□□ □□ □□□□□ □□□□□ □□ □□□□ 'patch.yamr' □□□ □□□□.

```
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-deployment
spec:
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
      maxUnavailable: 0
```

4. Kustomization □□: bash kubectl apply -k - 'kustomization.yaml' □□□ □□□ ('deployment.yamr' □□)□ □□□ □□□ □□□□□. - 'deployment.yamr' □□□□ □□□ □□ □□ □□□ □□□□ □□□□. - 'patch.yamr' □□□ □□□ □□□ □□ □□□ □□□□ □□ □□□□□ □ □□□□ □□ □□□□□ □□ □□□□□ □□□□□. - 'patch.yamr'□ 'maxSurgew' □ 'maxunavailable' □□□ □□□□ □□□□ □□ □□□□□ □□□ □ □□ □□ □□ □□ □□□□□. - 'imagePullPolicy:AlwaysS'□ □□□ □□ □□□ □□□□ Docker Hub□ □ □ □□□□ □□□ □□□□□ □□□□□□.

NEW QUESTION: 68

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Answer:

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I). Git □□□ □□:

- GitHub, GitLab □□ Bitbucket□ □□ □□□□□ Git □□□□ □□□□.

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2. □□□ □□□□□.
- Git □□□ □□□□ □□ □□□ □□□□□.
- □□ URL□ Kubernetes □□□□ API □□□ □□□□ □□□.
- □□ □□□□ '□□'□ □□□□ □□□□ '□□□'□ □□□□□.
3. □□ □□□
- □□ □□□ □□□□ □□ YAML □□□ □□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: webapp
  template:
    metadata:
      labels:
        app: webapp
    spec:
      containers:
      - name: webapp
        image: your-registry/webapp:latest
        imagePullPolicy: Always
        ports:
        - containerPort: 8080
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 0
```

4. Kubernetes Secret□ □□□□□. - Git □□□□ □□ □□□ Kubemetes Secret□ □□□□□. - □ Secret□ Git □□□□ □□ □□□ □□□□ □ □□□□□. 5. Job□ □□□□□. - □□ □□ □ □□□□ Job YAML □□□ □□□□□.

```
apiVersion: batch/v1
kind: Job
metadata:
  name: webapp-deploy
spec:
  template:
    spec:
      containers:
      - name: deployer
        image: your-registry/deployer:latest
        command: ["/bin/bash", "-c"]
        args: ["git clone https://your-git-repository.com/your-repo.git && cd your-repo && git checkout master && docker build -t your-registry/webapp:latest . && docker push your-registry/webapp:latest && kubectl apply -f webapp-deployment.yaml"]
      restartPolicy: Never
  backoffLimit: 0
```

6. □□□ □□: - Kubernetes □□□□□ □□, □□ □ □□ YAML □□□ □□□□□. 7. □□□ □□□□□□. - Git □□□□ '□□□' □□□□ □ □□□ □□□□□. - □□□ □□□□ □□□ □ □□□□ □□□□□□□ □□□□□. - □□□□ □□□□ □□□ □ □□□□□□□ □□ □ □□□ □ □□□ □□□□□.

NEW QUESTION: 69

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kdsn00101 □□□□□□□ □□ □□□ kdsn00101-deployment□□ □□□ □□□□□. □□□ □□ □□□□□.

* □□□ □□□ □□ Pod□ □□□□ □□ Pod □□□ □□□□□□ func=webFrontEnd □/□ □ □□□ □□□□□.

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□□□□, kdsn00l01 □□□□□□□ □□□ □□□□ □□□□ □□□□□.

* TCP □□ 8080□□ □□□□ □□□□□.

*□ kdsn00l01-deployment □□□ □□ □□□ □□□ □□□□□.

* NodePort □□□□□.

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Answer:

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NEW QUESTION: 70

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Answer:

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□□□(□□□) :

1. NetworkPolicy□ □□□□□.

- □□□□ □□□ □□□□ □□ □□□ YAML □□(□: 'frontend-network-policy.yaml')□ □□□ □.

- NetworkPolicy□ □□□ □□□ □□□□□□□ □□□□□.

- '□□' □□□ □□ □□□ □□□□□.

- '□□□□□' □□□ □□□□ □□ 'podSelector'.

- 'ingress' □□□ □□□□ □□□ □□□ □□□□□.

- 'egress' □□□ □□□□□ □□□ □□□ □□□□□.

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: frontend-network-policy
  namespace: your-namespace
spec:
  podSelector:
    matchLabels:
      app: frontend
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: backend
    ports:
    - protocol: TCP
      port: 8080
  egress:
  - to:
    - ipBlock:
        cidr: 0.0.0.0/0
    ports:
    - protocol: TCP
      port: 8080
```


2. NetworkPolicy □□: - □□ □□□ □□□□ □□□□□ NetworkPolicy□ □□□□□. bash kubectl apply -f frontend-network-policy.yaml 3. NetworkPolicy □□: - 'kubectl get networkpolicy' □□□ □□□□ □□□ NetworkPolicy□ □□□□ □□□ □□□□□. 4. □□ □□ □□□: - 'frontend' □□□□ □□ 8080□□ 'backend' □□□□ □□□ □□□□□. - □□□ □□ □□ □ □□□□ □□ □□□□ □□□ □□□ □□□□□. - NetworkPolicy□ □□□ □□ □□ □□□ □□□□ □□□□□ □□□□□.

NEW QUESTION: 71

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Answer:
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□□□(□□□) :
1. Blue □□ □□□:
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- □ □□□ □ □□□(□: 'app=my-service-blue')□ □□□□□.
- 'app=my-servjce-blue' □□□ □□□□ '□□□'□ □□ '□□□□ □□□□ tramc□ tne blue □ □□ □□□□□□.
2. □□□ □□□ □□□□.
- □□ □□□ □□□□□□□□ □□□□ □ □□ □□□ □□□□.
- □ □□□ □□ □□□(□: 'app=my-service-green')□ □□□□□.
3. □□□ □□:
- □□□□ □□ □□ Capp=my-service-greeru)_□□ □□□□ □□ '□□□'□ □□□□□.
4. □□ □□(□□ □□):
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5. □□□□ □□□□□ □□:
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6. □□:
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7. □□□ □□/□□□ □□(CIICD):
- CI/CD □□□ □□ □□□□□ □□□□ □□ □□□□ □□ □□+□□ □□□ □□□□□□.

NEW QUESTION: 72
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□□ □□□□ □□:
[student@node-1] $ | kubectl

k8s □□ □□□□ □□
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* □□□ YAMLspec □□ /opt/KDOB00201/counter.yaml□ □□□□ □□□□□ □□□ □□□ □□□□□.
* □□ □□ □□□□ □□ □□ □□□ □□ □□□□□□ □□□ □□□□ □□ □□ □ /opt/KDOB0020l/log_Output.txt □□□ □□□□□.

Answer:

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□□□ YAML □□ □□□ □□□□ □□□□□ □□□ □□□ □□□□□ kubectl apply □□□ □□□ □ □□□□. apply □□□ □□□□□ □□□□ □□□□ □□□□□□□.
kubectl □□ -f /opt/KDOB00201/counter.yaml
□ □□□ □□□□□ Pod□ □□□□□. kubectl get pods □□□ □□□□ Pod□ □□□ □□□ □ □□ □□□ □□□ □ □□□□.
kubectl□□ □□ □□□□
□□ □□ Pod□□ □□ □□ □□□ □□ □□□□□□ □□□ □□□ □ /opt/KDOB0020l/log_Output.txt □□□ □□□□□ kubectl logs □□□ □□□ □ □□□□.
logs □□□ Pod □ □□□□□□ □□□ □□□□□.
kubectl logs -f <□□ □□> > /opt/KDOB0020l/log_Output.txt
<pod-name>□ □□□ □□□□ □□□□.
-f □□□ □□□□ □□□ □□□□□ □□ □□□□.
kubectl logs -f <pod-name> > /opt/KDOB0020l/log_Output.txt &
□ □□□ □□□□ □□□ □□□□ /opt/KDOB0020l/log_Output.txt □□□ □□□□□.
□ □□□ □□ □□□ □□□□ Pod□ □□ □□□ □□□□□. □□ □□ □ □□□ □ □□□ □ □□□□ kubectl logs □□□ --since □□□□ □□□□ □□□ □□□□ □□□. □□ □□, □□ 24□□ □□ □□□ □□□ □□ --since=24h □ □□□□□.
□□, □□□ □□ □□ □□□□□ □□ □□ -c □□□ □□□□ □□□□ □□□ □□□□ □□ □.
kubectl logs -f <pod-name> -c <container-name> > /opt/KDOB0020l/log_Output.txt □ □□□ □ □□ □□□□□ □□□ □□□ □□□□□□□.

NEW QUESTION: 73

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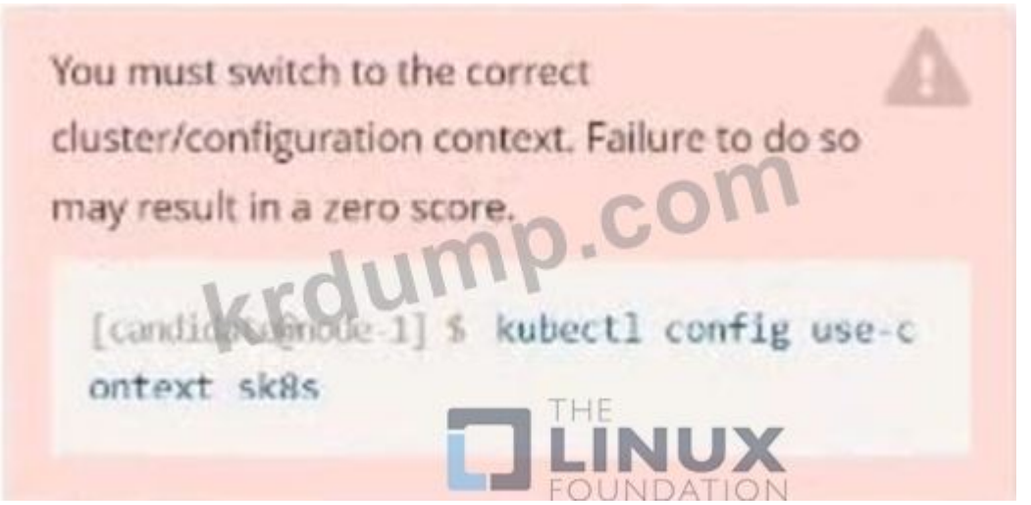

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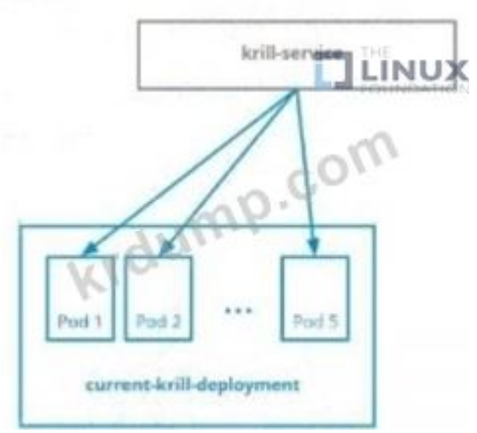
□:

goshark □□□□□□□ krill-Service□□ □□□□ current-krill-deployment□□ □□□□ □□□ 5□□ □□□ □□□□□.

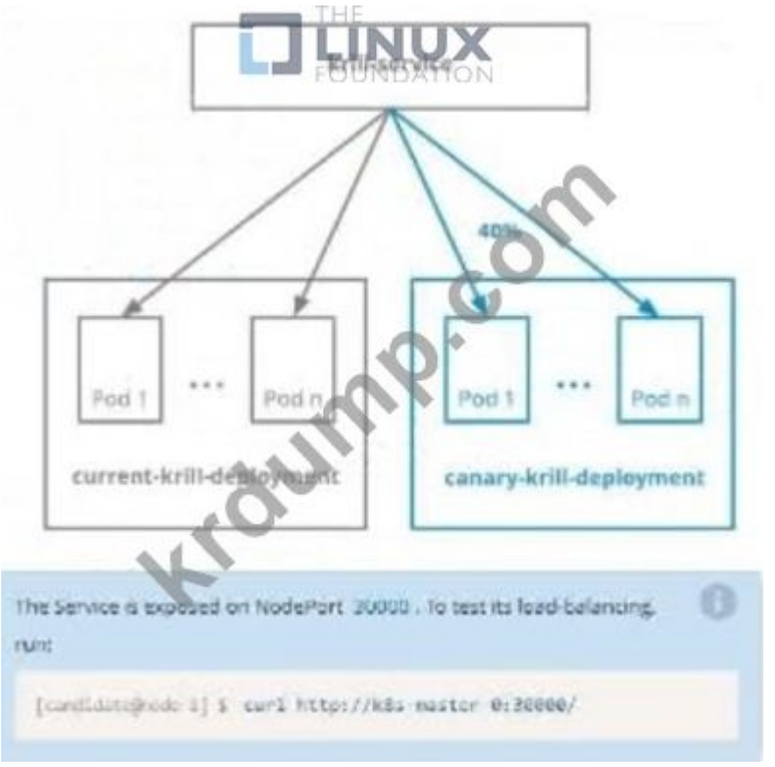


1) □□□ □□□□□□□ canary-kill-deployment□□ □□□ □□□ □□□ □□□□.

2) □□□ □□□ □□ □□□□□.

- goshawk □□□□□□□□ □□□□ Pod□ □□ □□ 10□□□□.

-□□ □□□ □□□□ 40%□ □□□□ □□ □□ □□□ □□□□□.



Answer:

□□□:

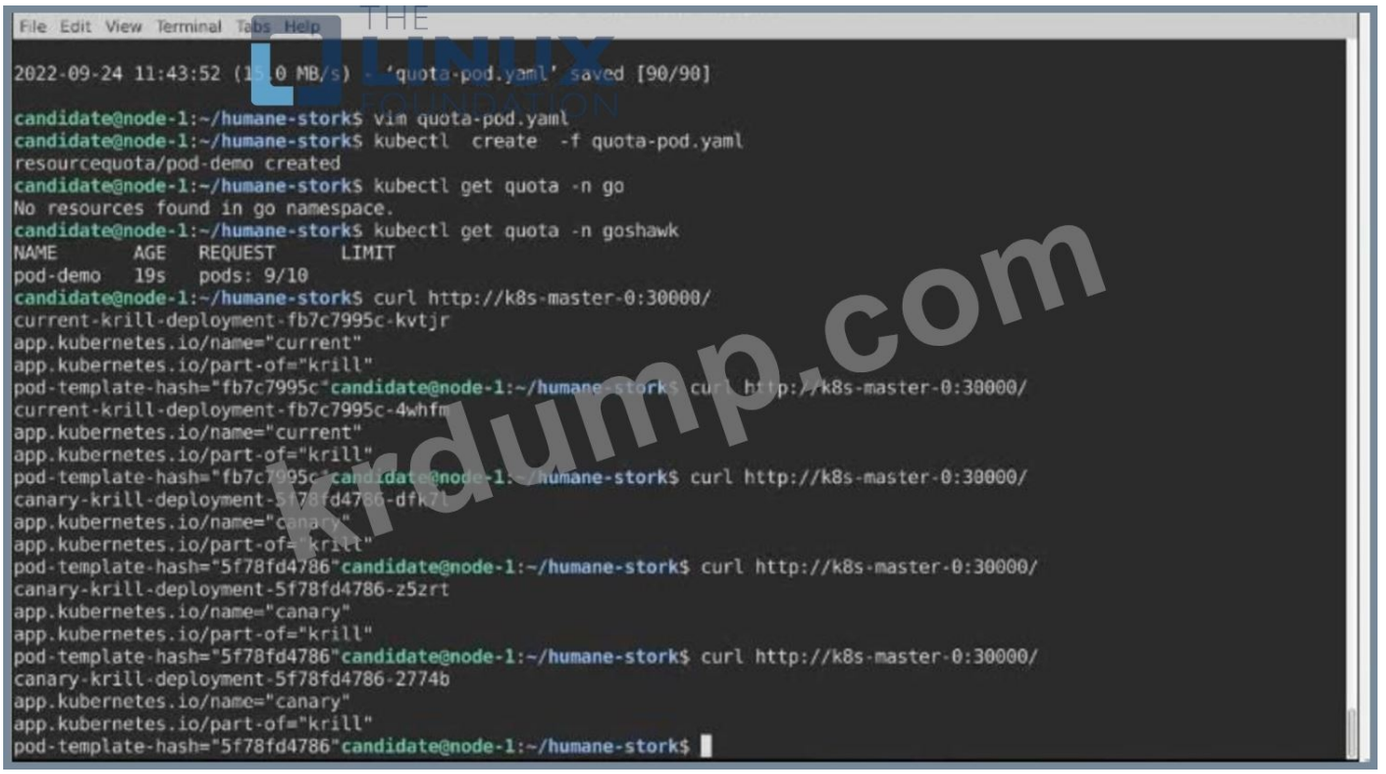
```
candidate@node-1:~/humane-stork$ kubectl scale deploy canary-krill-deployment --replicas 4 -n goshawk
deployment.apps/canary-krill-deployment scaled
candidate@node-1:~/humane-stork$ kubectl get deploy -n goshawk
NAME                      READY   UP-TO-DATE   AVAILABLE   AGE
canary-krill-deployment   4/4     4            4           46s
current-krill-deployment  5/5     5            5           7h22m
candidate@node-1:~/humane-stork$ wget https://k8s.io/examples/
```

```
ndidate@node-1:~/humane-stork$ wget https://k8s.io/examples/admin/resource/quota-pod.yaml
2022-09-24 11:43:51--  https://k8s.io/examples/admin/resource/quota-pod.yaml
solving k8s.io (k8s.io)... 34.107.204.206, 2600:1901:0:26f3::
nnecting to k8s.io (k8s.io)|34.107.204.206|:443... connected.
TP request sent, awaiting response... 301 Moved Permanently
cation: https://kubernetes.io/examples/admin/resource/quota-pod.yaml [following]
2022-09-24 11:43:52--  https://kubernetes.io/examples/admin/resource/quota-pod.yaml
solving kubernetes.io (kubernetes.io)... 147.75.40.148
nnecting to kubernetes.io (kubernetes.io)|147.75.40.148|:443... connected.
TP request sent, awaiting response... 200 OK
ngth: 90 [application/x-yaml]
ving to: 'quota-pod.yaml'

ota-pod.yaml                100%[=========================================>]      90  --.-KB/s    in 0s

22-09-24 11:43:52 (15.0 MB/s) - 'quota-pod.yaml' saved [90/90]

ndidate@node-1:~/humane-stork$ vim quota-pod.yaml
```



NEW QUESTION: 74

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□□ □□□□ □□□□ ConfigMap□ □□□□ Pod□□ ConfigMap□ □□□□ □□□ □□□□ □.

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* □/□ □□ □□□□ another-config□□ ConfigMap□ □□□□: key4/value3

* nginx □□□□ □□□□ □□ □□□□□ □□□□ nginx-configmap□□□ □□□ □□□ □□ □□ □□ □□□ □□ /also/a/path □□□□ □□□ □□□ □□□□□□.

Answer:

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```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME             DATA   AGE
another-config   1      5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
```

Readme | Web Terminal | THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
"nginx_configmap.yml" 15L, 262C                    1,1          All
```

Readme | Web Terminal | THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    volumeMounts:
    - name: myvol
      mountPath: /also/a/path
  volumes:
  - name: myvol
    configMap:
      name: another-config
                                                   13,6         All
```

NEW QUESTION: 75

'wordpress-deployment'□□ □□□ □□□ □□□, □ □□□ Wordpress □□□□□ □□□ 3□ □ □□□□□. □ □□(pod)□ □□ CPU □ □□□ □□□ □□ □ □□□ □□□□ □□□. □ □ □□□□□□ □□ 250MB□ CPU□ 512MB□ □□□□ □□□□□, CPU □ IGi □□□□ 500MB□ □□□□□ □ □□□. □□, swordpress □□□□□□□ □□ □□□ □□□□ □□□ □ □ CPU □□ □ □□□ □□ 2 CPIJ □ 4GB□ □□□□ □□□□ □□□ □□□.

Answer:

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1. □□ YAML□ □□□□□□□.

- '□□□□' □□□ '□□□'□ □□□□ CPIJ□ □□□ □□□ □□ '□□'□ '□□'□ □□□□□.
- '□□'□ □□□ □□ □□□□ □□□□ □□, '□□'□ □□□□ □□ □□□□ □□□□ □□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: wordpress
  template:
    metadata:
      labels:
        app: wordpress
    spec:
      containers:
      - name: wordpress
        image: wordpress:latest
        resources:
          requests:
            cpu: 250m
            memory: 512Mi
          limits:
            cpu: 500m
            memory: 1Gi
```

2. □□ □□□: - 'kubectl apply -f wordpress-deployment-yamr'□ □□□□ □□□□□ YAML □ □□ □□□□□. 3. □□□ □□□ □□□: - □□ □□□ □□□□ 'wordpress-quota.yaml'□□□ ResourceQuota YAML □□□ □□□□.

```
apiVersion: v1
kind: ResourceQuota
metadata:
  name: wordpress-quota
  namespace: wordpress
spec:
  limits:
    cpu: "2"
    memory: "4Gi"
```

4. □□□ □□□ □□: - 'kubectl apply -f wordpress-quota.yamr' □□□ □□□□ ResourceQuota YAML □□□ □□□□□. 5. □□ □ □□□ □□: - 'kubectl get deployments wordpress-deployment' □□□ □□□□ □□ □□□ □□□□ □□□□□ □□□ □□ □ □□□ □□□□ □. - 'kubectl get resourcequotas -n wordpressS' □□□ □□□□ □□□ □□□ □□□□ □□ □ □□ □□□□□. 6. □□□ □□ □□□: - 'wordpress' □□□□□□□ □□□ □□□ □□□ □□ □□ □ □□ □□ Pod□ □□□ □□□. □□□ □□□□ □□□□ □□□□□.

NEW QUESTION: 76

MySQL □□□□□□□ □□□□ 'mysql-statefulset'□□□ □□ □□ □□□ □□□□. □□□□

□□ □□□□ 'mysql-pvc'□□ PersistentV01umeClaim(PVC)□ □□□□□. Pod □□□□□ □ □ □□□ PVC□ □□ □□□ Pod□ □□□□□□ □□□ □□□. □□, PVC□ □□□ □□□□ □□ □□ □□□□ □□□□ □□□□□ □□□□□ □□□.

Answer:

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1. □□□□ □□□ □□:

- 'accessModes', 'reclaimPolicy', 'provisioner'□ □□ □□□ □□□□ □□□ □□□ □□□□□ □□□□ □□□□ □□□ YAML □□□ □□□□.

```
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
  name: mysql-storage
provisioner: kubernetes.io/aws-ebs
parameters:
  type: gp2
  encrypted: "true"
```

- 'kubectl apply -f mysql-storage.yaml'□ □□□□ YAML □□□ □□□□□. 2. PersistentVolumeClaim□ □□□□. - □□□□ □□□□ □□□□ PVC□ □□□□ □□□ □□ □ □□□ □□□□ PVC YAML □□□ □□□□.

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: mysql-pvc
spec:
  accessModes:
  - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
  storageClassName: mysql-storage
```

- 'kubectl apply -f mysql-pvc.yamr'□ □□□□ YAML □□□ □□□□□. 3. StatefulSet□ □□□ □□. - 'mysql-statefulset' YAML □□□ □□□□□□□. - 'spec-template-spec-containers-volumeMounts'□ □□□□ 'mysql-pvc' □□□ □□□□□ □□□□□□. - 'spec-volumeClaimTemplates' □□□ □□□□ StatefulSet□ □□□ □□ □□□□ □□□□□.

```
kind: StatefulSet
metadata:
  name: mysql-statefulset
spec:
  serviceName: mysql
  replicas: 1
  selector:
    matchLabels:
      app: mysql
  template:
    metadata:
      labels:
        app: mysql
    spec:
      containers:
      - name: mysql
        image: mysql:5.7
        ports:
        - containerPort: 3306
        volumeMounts:
        - name: mysql-data
          mountPath: /var/lib/mysql
  volumeClaimTemplates:
  - metadata:
      name: mysql-data
    spec:
      accessModes:
      - ReadWriteOnce
      resources:
        requests:
          storage: 1Gi
```


- 'kubectl apply -f mysql-statefulset.yamr'□ □□□□ YAML □□□ □□□□□.4. StatefulSet□ □□□□□.- 'kubectl get sts mysql-statefulset'□ □□□□ StatefulSet□ □□□ □□□□□.- 'kubectl describe pod mysql-o'□ □□□□ 'mysql-pvc'□ □□□ □□□□□□ □□□□ □□□□ □□ □□□ □□□□□.5. □□ □□ □□□:- StatefulSet □□□ □□□ □□□□□(□: 'kubectl delete pod mysql-O').- □□ □□(Cmysql-ff)□□ □ □□□ □□□□ □□□□ 'mysql-pvc'□ □□ □□□□ □□□□□.6. □□□□□□□ □□□□□□□.- 'kubectl exec' □□□ □□□□ MySQL □□□□□□□ □□□□ □□□ □□ □□□□ □□□ □□□ □□□□ □□□□□ □□□□□. □□□ □□□ □□□□ mysql-statefulset□ □□□ □□□□ □□ □□ □□□□ □□□□ □□ □□ PVC□ □□ □□□ □□□ □□□□□ □□□ □□□ □□□□ □□□□□ □□□ □ □□ □□.

CKAD □□ □□□ □□□□□ □□ DumpTop □□ □□□□ □□□ CKAD □□! DumpTop □ □□ **CKAD** □□ □□□ □□□□□□, DumpTop CKAD □□ □□□ □□□□□□□□ □ □□ □□□□□□□. □□□□ □□□ □□□□ □□ DumpTop CKAD □□□ □□□□□.

NEW QUESTION: 77
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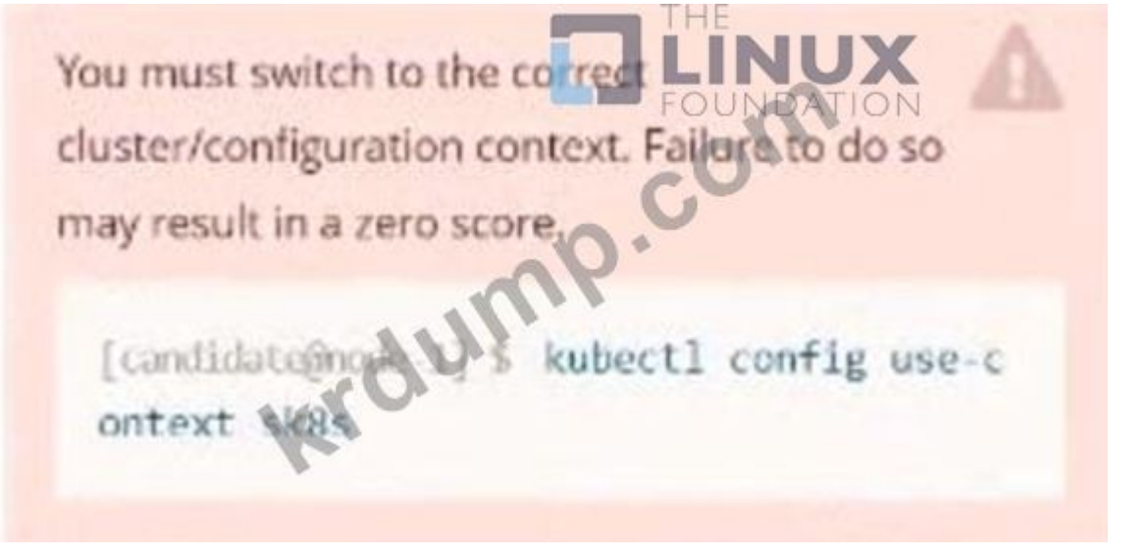

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Answer:
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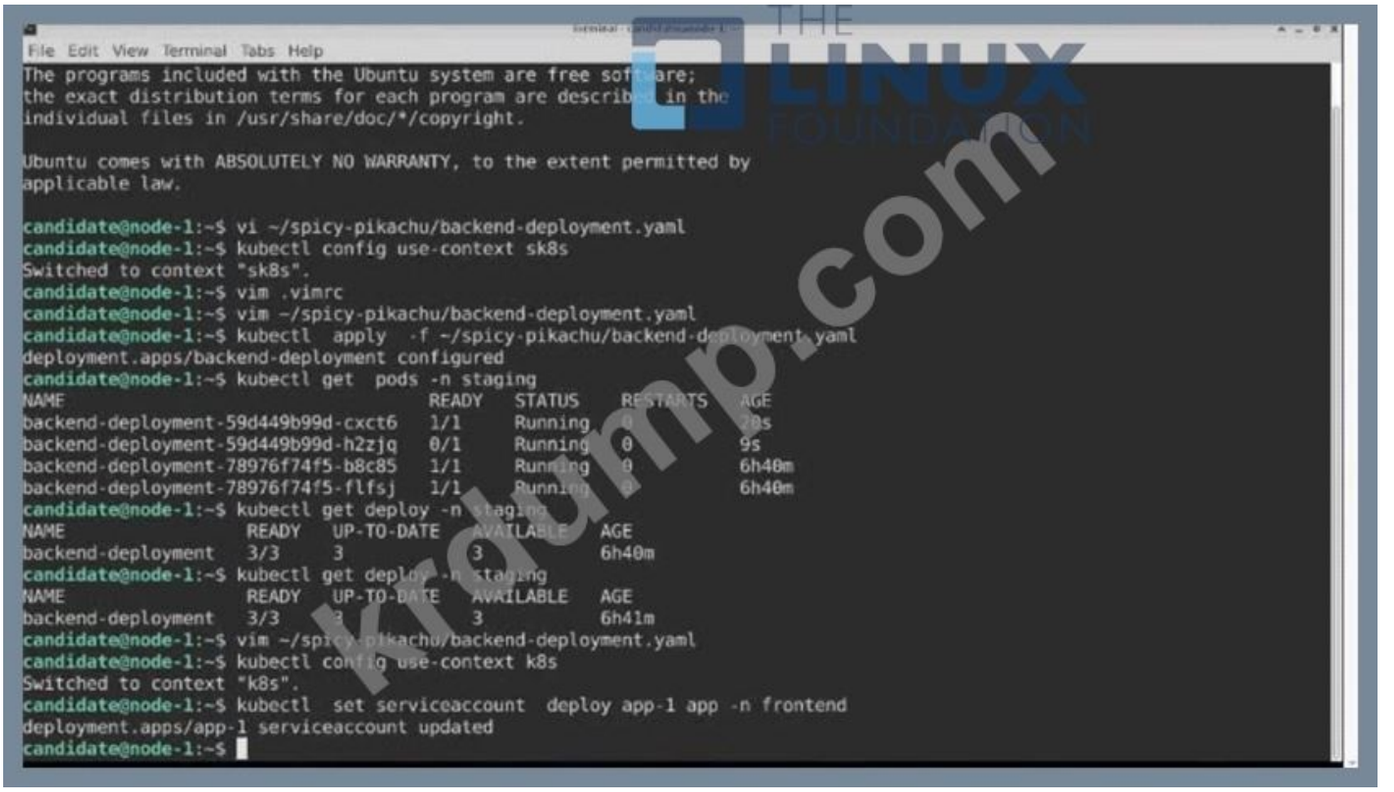

NEW QUESTION: 78
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Answer:

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□□□(□□□) :

1. □□ □□□ □□ CRD□ □□□□.

- □□□ □□□ □□□ □□□□ □□ 'SecretValidator'□□ □□□ □□ □□□ □□(CRD)□ □ □□□□.

- □ CRD□□ □□ □□□ □□□ '□□' □□□ □□□□.

```
apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
  name: secretvalidators.example.com
spec:
  group: example.com
  versions:
  - name: v1
    served: true
    storage: true
  scope: Namespaced
  names:
    plural: secretvalidators
    singular: secretvalidator
  kind: SecretValidator
  subresources:
    status: {}
spec:
  secretName: string
```


2. □□□ □□ □□ □□□ □□□□. - ValidatingWebhookConfiguration □□□□ □□□□. - 'SecretValidatoo CRD□ □□□□□ '□□'□ □□□□ CRD□ □□ □□□ □□ □□□ □□□□ □□ □□□□□. - □□□ □□□ □□□ □□ □□ □□□ □□□□□ 'failurePolicy'□ 'Fail'□ □ □□□□. - □□□□ API □□□ □□□□□ 'admissionReviewVersions'□ □□□□□. - □□□ □□□ □□□ □□□□ □□□ □□□□ □□□□ 'sideEffects'□ '□□'□□ □□□□□.

```
apiVersion: admissionregistration.k8s.io/v1
kind: ValidatingWebhookConfiguration
metadata:
  name: secret-validator-webhook
webhooks:
- name: secret-validator.example.com
  rules:
    - apiGroups: ["example.com"]
      apiVersions: ["v1"]
      resources: ["secretvalidators"]
      operations: ["CREATE"]
  failurePolicy: Fail
  admissionReviewVersions: ["v1", "v1beta1"]
  sideEffects: None
  clientConfig:
    service:
      name: secret-validator-service
      namespace: default
      path: /validate
```

3. □□ □□ □□□ □□□: - □□ □□ □□□ □□□ □□□□ □□ □□□ □□□□. - □□□□ □ □□□□□□□ □□□ □□□ □□□ □□□□ □□□ □□ □□□□□ □□□ □□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: secret-validator-service
spec:
  replicas: 1
  selector:
    matchLabels:
      app: secret-validator
  template:
    metadata:
      labels:
        app: secret-validator
    spec:
      containers:
      - name: secret-validator
        image: your-image-name:latest
        command:
        - /bin/sh
        - -c
        - "while true; do sleep 30; done;"
        ports:
        - containerPort: 8443
```


4. □□□□□ □□ □□□ □□□□□. - □□ □□ □□□ □□□□□ □□□□ □□□ □□□□ □□□. - Kubernetes API □□□□ □□□ □□□□□. - 'SecretValidator' CRD□□ 'secretName'□ □□□□□. - □□□□□□□ □□ □□□ □□□ □□□ □□□□□. - □□□ □ □□ □□ □□□ □□□□□. - □□□ □□□ □□ □□□ □□□□ □□ □□□□ □□□□□. □□□ □□ □□□□("context" "encoding/json" "fmt" "io/ioutil" "net/http" metavl "k8s.io/apimachinery/pkg/apis/meta/v1" "k8s.io/apimachinery/pkg/runtime" "k8s.io/apimachinery/pkg/runtime/serializer" "k8s.io/apimachinery/pkg/types" "k8s.io/client-go/kubernetes" "k8s.io/client-go/rest" func main() { // Kubernetes □□□□□□ □□□ □□□□ □. err := rest.InClusterConfig() if err != nil { panic(err) □□□□□□, err := kubernetes.NewForConfig(config) if err != nil { panic(err) // CRD□ □□□□□ □□ □□□□ □□ □□□. scheme := runtime.NewScheme() codecs := serializer.NewCodecFactory(scheme) deserializer := codecs.UniversalDeserializer() // HTTP □□ □□ http.HandleFunc("/validate",

func(w http.ResponseWriter, r http.Request) { // □□ □□ □□ □□ □□ body, err := ioutil.ReadAll(r.Body) if err != nil { http.Error(w, fmt.Sprintf("□□ □□ □□: %v" err), http.StatusInternalServerError) return } // □□ □□ □□ □□□□ var admissionReview metavl .AdmissionReview , err = deserializer.Decode(body, nil, &admissionReview) if err != nil { http.Error(w, fmt.Sprintf("□□ □□ □□□ □□: %v", err), http.StatusInternalServerError) return } // □□ □□ □□ □□□□ □□ □□ □□ var admissionReview metavl .AdmissionReview , err = deserializer.Decode(body, nil, &admissionReview) if err != nil { http.Error(w, fmt.Sprintf("□□ □□ □□□ □□: %v", err), http.StatusInternalServerError) return } // □□□ □□□ □□ , err = clientset.CoreV1 ().Secrets(admissionReview.Request.Namespace).Get(context.TODO(), secretValidator.Spec.SecretName, metavl .GetOptions{}) if err nil { // □□□ □□□ □□□ □□ □□□ admissionReview.Response = &metavl .AdmissionResponse{ IJID: admissionReview.Request.UID, Allowed: false, Result: &metavl .Status{ Status: metavl .StatusFailure, Message: fmt.Sprintf("□□ %s□ □□□□□□ %s□□ □□ □ □□□□", secretValidator.Spec.SecretName, admissionReview.Request.Namespace), } } } else { // □□□ □□□□□. □□□ □□□□□. admissionReview.Response = &metavl .AdmissionResponse{ UID: admissionReview.Request.UID, Allowed: true, Result: &metavl .Status{ Status: metavl .StatusSuccess, // □□ □□ □□□ □□□□□□. response, err := json.Marshal(admissionReview) if err nil { http.Error(w, fmt.Sprintf("□□ □□ □□□ □□: %v", err), http.StatusInternalServerError) return } // □□□□□□ □□ □□ w.WriteHeader(http.StatusOK) w.Write(response) }) // □□ 8443□□ HTTP □□ □□ http.ListenAndServeTLS(":8443", "/path/to/cert.pem", "/path/to/key.pem", nil) } // SecretValidator CRD □□ □□ SecretValidator struct { metav1 .TypeMeta metav1 .ObjectMeta Spec SecretValidatorSpec } type SecretValidatorSpec struct {

```
SecretName string `json:"secretName"`
```

} 5. SecretValidator □□□ □□: - □□□ □□□ □□□□□□□ 'SecretValidator' □□□□ □□ □□□. - 'spec.secretName'□ □□□ □□□ □□□□ □□□□□.

```
apiVersion: example.com/v1
kind: SecretValidator
metadata:
  name: secret-validator
spec:
  secretName: my-secret
```


6. □□□ □□ □□□□□□ □□: - □□□□□□ □□□ 'SecretValidator' □□□□ □□□ □□ □□□□□ □□□ □□□□□. - □□□ □□ □□□ □□□□□ □□ □□□□ 'SecretValidator' □□□□ □□□□ □□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app-deployment
  annotations:
    example.com/secret-validator: secret-validator
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: your-image-name:latest
      # ... (other deployment spec)
```


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NEW QUESTION: 79

□□□ □□□ □□□□ Nginx □□□ □□□ □□□□ Kustomization □□□ □□□□. □ □□□ □□ □□□ □□□□ □□□□□ □□ CPLJ □□□ 500m□ □□□□□. □□□ □ □□□ □ □ □ □□□□ □□□□ □□□□ □□ □□ □□□□□. □□ □□□ □ □□ □□□□ □□ □□ Kubernetes API □□□□ □□□ □□ □□□ □□□□□□ □□□ □□□□□. □□□ □□ □□ □ □□□□ □□ □ □□ Kubernetes □□ □□□□ □□□□ □□□□□ Kustomization □□□ □□□□□□ □□□ □□□ □□□.

Answer:

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□□:

□□□(□□□) :

1. □□□ □□ □□ □□: □□ Kubernetes API □□□□ □□□□ □□□ □□□ □□ □□□□ □ □□ □□□ □□□□□. □□□ □□□ □□ □□ □□ □ □□□□□ □□□ □□□ □□□ □ □□ □□□□ □□□□.

2. Kustomization □□ □□□□: Kustomization □□□ □□□ □□□ □□□□ □□□□□ □□ □□□ □□□□□. □□ □□ □□□ 'spec-template-spec-containers[l.resources.requests.cpu'□ □□, □□□ □□ □□ □□□□□□□. □□ □□□ □□□□□ □□□ □□ □□□ □□ □□ □ □ □□□ □□□ □ □□□□.

```
# kustomization.yaml
resources:
  - deployment.yaml
patchesStrategicMerge:
  - patch.yaml

# patch.yaml
---
spec:
  template:
    spec:
      containers:
      - name: nginx
        resources:
          requests:
            cpu: 500m
```

3. □□□ □□ □□: □□ □□□ □□ □□□□□ □□□ □□ □□□□ □□ □□, Kustomize □ □□□ □□□ □□□ □□□□□. □□□ □□ □□□ □□□□□ API □□□ □□ □□ □□□ □□□ □ □□□□. Kustomize□ 'patchJson6902' □□□ □□□□ □□ □□□□ API □□□ □ □ □□□ □□□ □□□ □ □□□□.

```
# kustomization.yaml
resources:
  - deployment.yaml
patchesStrategicMerge:
  - patch.yaml
patchesJson6902:
  - patch: |-
      {
        "op": "replace",
        "path": "/spec/template/spec/containers/0/resources/requests/cpu",
        "value": "500m"
      }
    target:
      kind: Deployment
      apiVersion: apps/v1
  - patch: |-
      {
        "op": "replace",
        "path": "/spec/template/spec/containers/0/resources/requests/cpu",
        "value": "500m"
      }
    target:
      kind: Deployment
      apiVersion: apps/v1beta1
```

4. □□□□□ Kustomization □□□: □□ □ □□ Kubernetes □□□ □□ □□□□ □□□□□ Kustomization□ □□□□□. □ □□□ Nginx □□ □□□□□ CPU □□□ □□□□ □□□□□ □□□□□. □□□ Kubernetes API □□□ □□□□ □□□ □□□□ □□□□□ □□□□□. 5. □□ □□ □□□: □□□□□ Kustomization □□□ □□ □□ □□□ □ □□□□□ □□ Kubernetes □□□ □□□ □ □□□ □ □□ □□□□ □□□ □□□□□. □□ □□□ □□□ □ □□ □□□□ □□ □□ □□□ □□□□ □□□ Kubernetes API □□□□ □□□□ □□□□□ Kustomization □□□ □□□□□ □□□□□ □ □□□□. □□ □□ Kubernetes□ □□□□ □ □□□□ □□□ □□□□□ □□□□ □□□ □ □□□□.

NEW QUESTION: 80

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Answer:

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□□:

□□□(□□□) :

1. ConfigMap□ □□□□.

- 'kubectl create configmap' □□□□ □□□□ □□ □□□ □□□ ConfigMap□ □□□□□. □: kubectl create configmap webapp-config -from-literal=config.json='{"port": 8080, "database_url": "mongodb://localhost27017"}'

- 'config_json'□ □□ □□ □□□□ □□□ JSON □□□ □□ □□ □□□ □□□□.

2. □□ □□:

- □□ YAML □□□ □□□□ ConfigMap□ □□□□ □□□□□□. □□□ □□□ □□□□.

```
apiversion: apps/v1
kind: Deployment
metadata:
  name: my-webapp
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-webapp
  template:
    metadata:
      labels:
        app: my-webapp
    spec:
      containers:
      - name: my-webapp
        image: my-webapp-image:latest
        ports:
        - containerPort: 8080
        volumeMounts:
        - name: config-volume
          mountPath: /etc/webapp/config
      volumes:
      - name: config-volume
        configMap:
          name: webapp-config
      restartPolicy: Always
```


- '/etctwebapp/config'□□ □□ □□□ □□□ □□□□□□ □□□ □□□□□. 3. □□ □□ □ □: - 'kubectl apply -f deployment_yamr'□ □□□□ □□□□□ □□□ □□□□□. 4. □□□□ □□: - 'kubectl logs -f'□ □□□□ □□ □□□ □□□□□. □□□□□□□ ConfigMap□□ □□ □□ □□□□ □□ □ □ □□□□. 5. □□ □□□□: - □□ □□□□ □□ □□□□ □□□

```
kubectl patch configmap webapp-config --patch '{"data": {"config.json": "{\"port\": 8081, \"database_url\": \"mongodb://newhost:27017\"}"}}'
```

- □□□ □□ ConfigMap□ □□□□□□ □□□ □□ □□□□□ □□□□□ □□□□ □□ □□ □□ □□□ □□□□□□ □□□ □□□□□ □□□□□□□.

NEW QUESTION: 81

'nginx-deployment'□□ □□□ □□□ Nginx □□□□ □□□ 3□□ □□□□ □□□□. 3□□ □ □ □□ □□□ ConfigMap□ □□□□ □□□□ □□□. □□, □□□ □□ □□□□□□ □□□ □□ □□□ □□ □□ □□□ □□□□ □□□□□ ConfigMap□ □□□□ □□□.

Answer:

□□□ □□□ □□ □□□ □□□□ □□□□□.

□□:

□□□(□□□) :

1. ConfigMap□ □□□□□.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: nginx-config
data:
  nginx_conf: |
    worker_processes  1;
    events {
      worker_connections  1024;
    }
    http {
      server {
        listen 80;
        location / {
          root /usr/share/nginx/html;
          index index.html index.htm;
        }
      }
    }
```

2. ConfigMap□ □□□□□. bash kubectl apply -f nginx-config_yaml 3. ConfigMap□ □□□□□ □□□ □□□□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        volumeMounts:
        - name: nginx-config-volume
          mountPath: /etc/nginx/conf.d
      volumes:
      - name: nginx-config-volume
        configMap:
          name: nginx-config
```


4. □□□□□ □□ □□ bash kubectl apply -f nginx-deployment.yaml 5. □□ □□: bash kubectl get deployments nginx-deployment □□□ □□□ 'nginx-config' ConfigMap□ □□□□□ □□□ □ □□□.6. □□ □□□□ □□□: - 'nginx-config' ConfigMap □□: bash kubectl edit configmap nginx-config ConfigMap□□ 'nginx_conf' □□ □□□□□.- □□□□ □□ □□ □□: bash kubectl exec -it -- bash -c 'cat /etc/nginxfconf-d/nginx_conf' □□ □ □□□ □□□□ □□□□.- □ □□□ □□ □□ nginx □□ □□ □□□ □□□□□. □□ □□ □□□ nginx □□ □□□ □□ □ □□□ □□ □□□□ □□□□□□ □□ □□□ □ □□□□.

NEW QUESTION: 82

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Answer:

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□□:

□□□(□□□) :

1. □□□□ □□ □□□□ □□□□□.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-service-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-service
  template:
    metadata:
      labels:
        app: my-service
    spec:
      containers:
      - name: my-service
        image: my-service-image:latest
        livenessProbe:
          tcpSocket:
            port: 8080  # Port your service listens on
          initialDelaySeconds: 15
          periodSeconds: 20
          failureThreshold: 3
          successThreshold: 1
```

- 'my-service-image:latest'□ □□□ □□□□ □□□□. - '8080'□ □□□□ □□□□ □□□ □ □□□. - □□□ □□ □□□ □□□ □□□□□. 2. □□ □□ □□□□ □□□□ □□□□□.

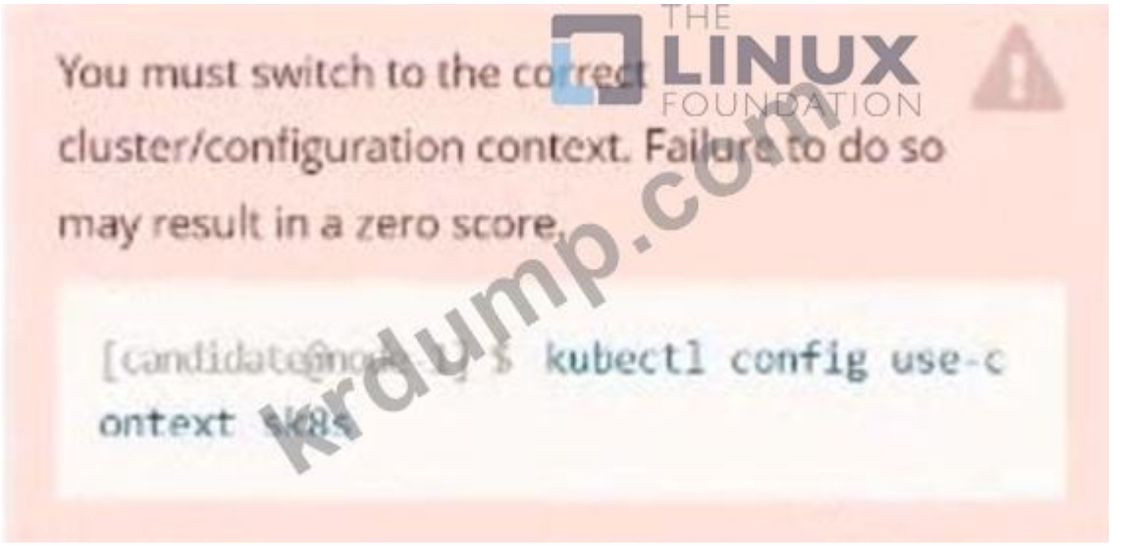
```yaml
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  selector:
    app: my-service
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080  # Same port as the liveness probe
  type: LoadBalancer
  healthCheckNodePort: 30001  # Optional: for external health checks
```

- 'healthCheckNodePort'□ □□ □□□□□, □□□□ □□ □□ □□ □□□ □□□ □ □□□□. 3. YAML □□ □□: - 'kubectl apply -f deployment_yamr' □ 'kubectl apply -f service.yaml'□ □□ □□ □□ □ □□□□ □□□□□. 4. □□ □□ □□: - □□□ □□□□ □□ □□□ □□□ □□ □□□. - □□□ □□□ □□□ □□ □□ □□□□ □□ □□□□□ □□□. - 'kubectl get pods -l app=my-service'□ □□□□ □□ □□□ □□□ □□ □□□□. 5. □□ □□: - □ □□□ □□ □

□ □□ □□□□ 'exec' □□ 'httpGet' □□□□ □□□□□. - 'failureThreshold' □ 'successThreshold'□ □□□□ □□□□ □□□□ □□□□□. - □□□ □□□□ □□□ □□□ □□□□ □□□□ □□ □□□ □□ □□□ 'readinessProbe'□ □□□□□.

NEW QUESTION: 83

□□



□:

1) □□ □□□□□□□ □□ □□ □□ □□ □□□□ app-secret□□□ □□□ □□□ □□□□.

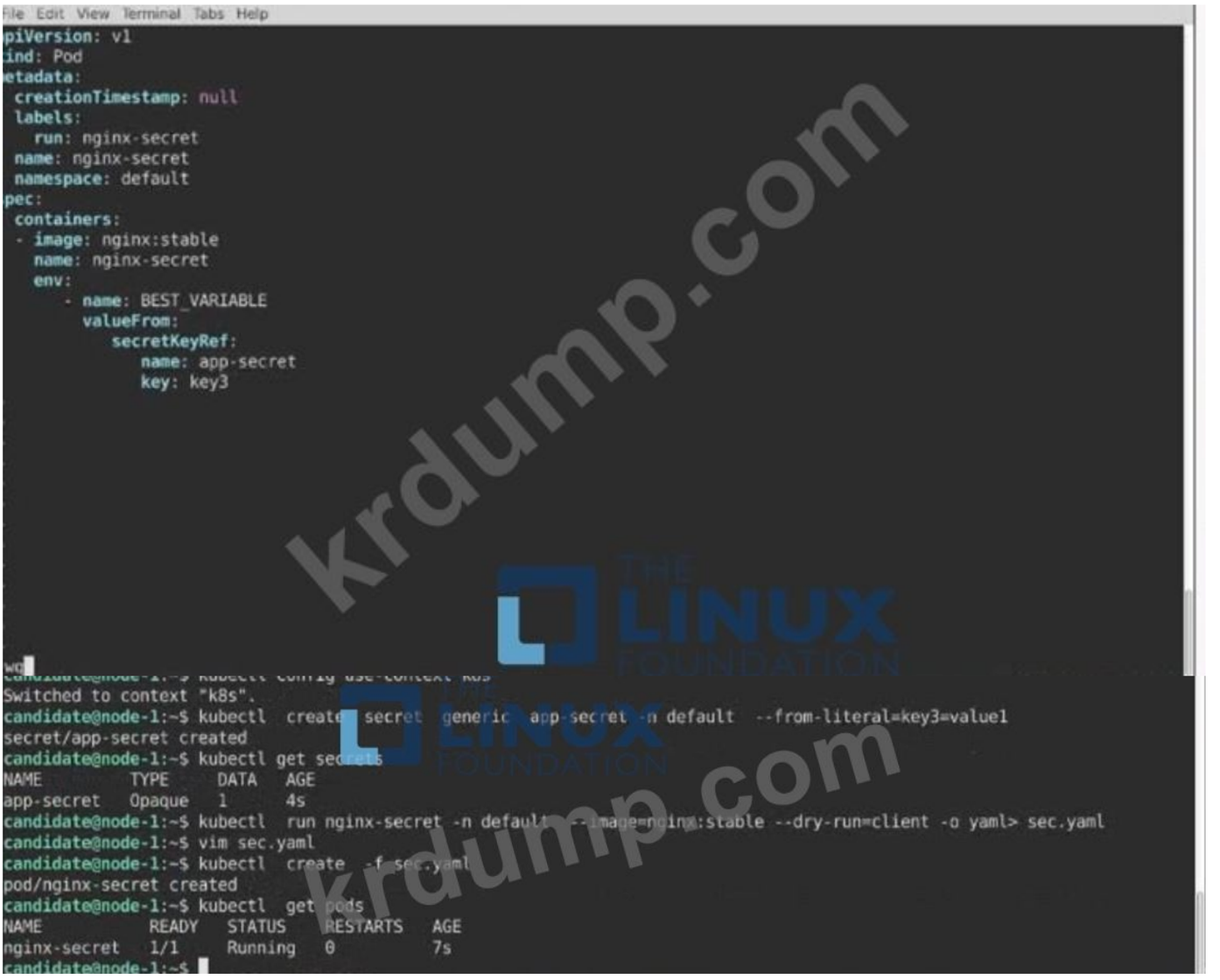
□3: □1

2) □□ □□□□□□□ ngnix secret□□□ □□□ Pod□ □□□□. nginx:stable □□□□ □□□ □ □□ □□□□□ □□□□□.

□□ □3□ □□ □□□□ BEST_VARIABLE□□□ □□ □□□ □□□□□.

Answer:

□□□:



NEW QUESTION: 84

'my-app'□□□ □□□ □□ □ □□□□□□□ □□□□ Kubernetes □□□□□ □□□□. □□ □ □□ □□□□ □ □□□□□□□ □□□□ □ □□□ □□□□□ □□□. □□□ □□□ RBAC□ □□□□ □□ □□□□□ □□□ □□ □□□?

Answer:

□□□ □□□ □□ □□□ □□□□ □□□□□.

□□:

□□□(□□□) :

1. □□□ □□ □□□:

- □□□ □□□□□□□ □□ □□□ □□□ □□□ □□□□.

- 'kubectl apply -f my-app-sa.yaml'□ □□□□ □ YAML □□□ □□□□□. 2. □□ □□: - □□ □ □□□ □□ □□□ □□□□ □□□ □□□□□. □□ □□, □□□ □□□ □□ □□ □□□

□□□ □ □□□□.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: my-app-reader
  namespace: default
rules:
- apiGroups: ["apps"]
  resources: ["deployments"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["core"]
  resources: ["secrets"]
  verbs: ["get"]
```

- 'kubectl apply -f my-app-reader.yaml'□ □□□□ □ YAML □□□ □□□□□. 3. □□□ □□□ □□□ □□□□□□. - 'my-app-reader' □□□ 'my-app-sa' □□□ □□□ □□□□ RoleBinding □ □□□□.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: my-app-sa-binding
  namespace: default
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: my-app-reader
subjects:
- kind: ServiceAccount
  name: my-app-sa
  namespace: default
```

- 'kubectl apply -f my-app-sa-binding.yaml'□ □□□□ □ YAML □□□ □□□□□. 4. □□□ □ □□□□□□. - □ □□□ □□□ □□□□□ 'my-app' □□□ □□□□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  template:
    spec:
      serviceAccountName: my-app-sa
```

- 'kubectl apply -f my-app.yaml'□ □□□□ □□□□□ □□ □□□ □□□□□. 5. □□: - 'my-app' □□ □□ □□□ □□□ □□□ □□□□ □□ □□□ □□□□□. 'kubectl get pods -l app=my-app -o wide'□ □□□□ □□ □□ □□□ □□□ □ □□□□. 6. □□ □□□□ □□ □ □□ □□: - □□ □ □□ □□□□ □□□□□□ □□□□ □□□□□ □□□ □□□□ □□□. - □□ □□□ □□(□: □□ □□, □□ □)□ □□□□ □□ □□□□ □□□ □□□□□. -

Kubernetes □□ □□□(□: OAuth2 □□ OpenID Connect)□ □□□□ □□□□ □□□□ □□ □ □□□□□. - □□□ □□□ ID□ □□□□ □□□ □□□ □□□□□. □□: □ □□□□□ □ □□ □□□ □□□ RBAC□ □□ □□□ □□□□□. □□ □□□□□□□ □□ □□ □□ □□ □ □□□ □□□ □□ □□□ □□□□ □□ □□ □□□ RBAC □□□ □□□□ □ □ □□□□.]

NEW QUESTION: 85
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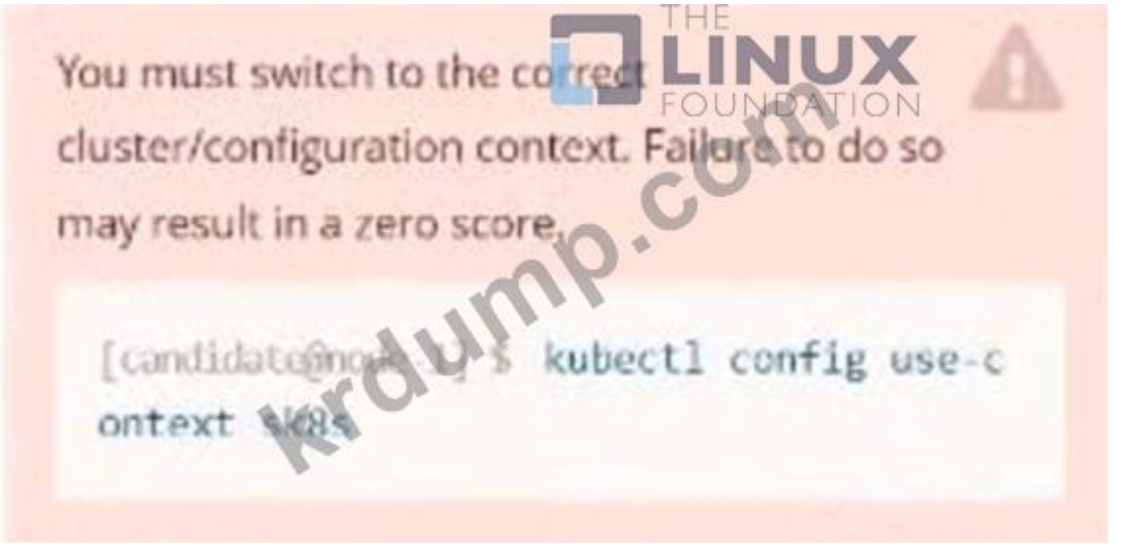
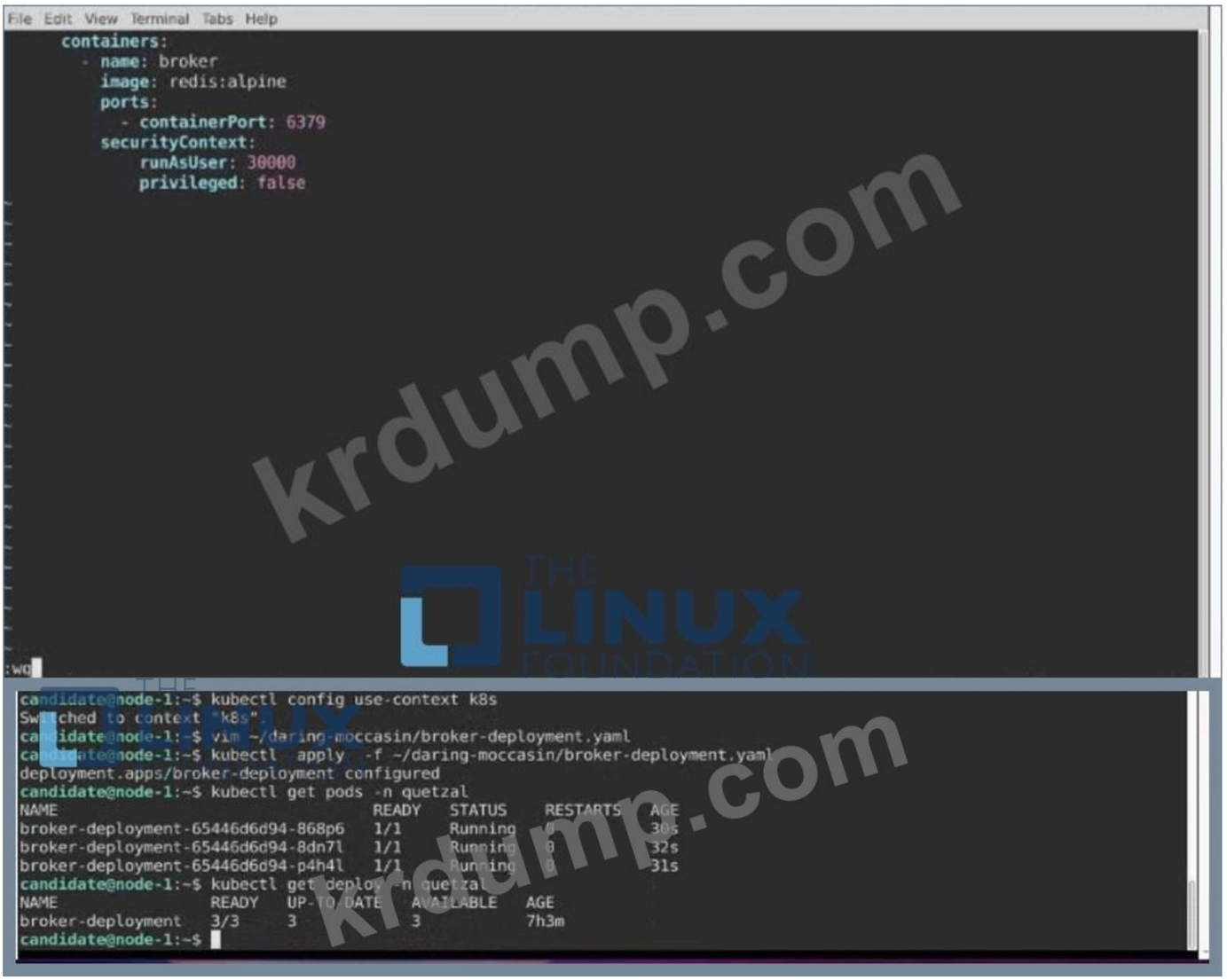


□:
□□□□□□ quetzal□□ □□ □□ broker-deployment□□ □□ □□□ □□□□ □□□□□ □ □□□.
1) □□□ ID 30000□□ □□□□
2) □□ □□□ □□□□ □□□□.
□□□ □□ □□□□□ □□□ □□ □□□□ □□ □ □□□□.
~/daring-moccasin/broker-deployment.yaml

Answer:
□□□:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim
```



NEW QUESTION: 86

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□

kdsn00101 □□□□□□□ □□ □□□ kdsn00101-deployment□□ □□□ □□□□□. □□□ □□ □□□□□.

* □□□ □□□ □□ Pod□ □□□□ □□ Pod □□□ □□□□□□ func=webFrontEnd □/□ □ □□□ □□□□□.

* □□□ 4□ □□

□□□□, kdsn00l01 □□□□□□□ □□□ □□□□ □□□□ □□□□□.

* TCP □□ 8080□□ □□□□ □□□□□.

*□ kdsn00l01-deployment □□□ □□ □□□ □□□ □□□□□.

* NodePort □□□□□.

* □□□□ □□□ □□□ □□□□

A. □□□:


Readme
Web Terminal
THE LINUX FOUNDATION
uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
progressDeadlineSeconds: 600
replicas: 4
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 25%
maxUnavailable: 25%
type: RollingUpdate
template:
metadata:
labels:
app: nginx
func: webFrontEnd
spec:
containers:
- image: nginx:latest
imagePullPolicy: Always
name: nginx
ports:
- containerPort: 80
student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
deployment.apps/kdsn00101-deployment edited
student@node-1:~$ kubectl get deployment kdsn00101-deployment -n kdsn00101
NAME READY UP-TO-DATE AVAILABLE AGE
kdsn00101-deployment 4/4 4 4 7h17m
student@node-1:~$ kubectl expose deployment kdsn00101-deployment -n kdsn00101 --type NodePort --
port 8080 --name cherry
service/cherry exposed

B. □□□:


student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
annotations:
deployment.kubernetes.io/revision: "1"
labels:
app: nginx
name: kdsn00101-deployment
namespace: kdsn00101
selfLink: /apis/apps/v1/namespaces/kdsn00101/deployments/kdsn00101-deployment
spec:
selector:
matchLabels:
app: nginx
strategy:
"/tmp/kubectl-edit-d4y5r.yaml" 70L, 1957C
1,1
Top

Answer: A (LEAVE A REPLY)

NEW QUESTION: 87

'web-app'□□□ □□□ □□ □□ SecurityContext□ □□□ □□□□□□□ □□□□ □□□. □ □□□□□□ '/data'□ □□□□ □□ hostPath □□□ □□□□ □ □□□ □□, □□ UID□ □□ □□□ □□ □□□□ □□□ □ □□□ □□□. □□□□□□□ □□□ □□□ □□□ □□□□ □□□□□ □□ □□□□ Securitycontext□ □□□□ □□□.

Answer:

□□□ □□□ □□ □□□ □□□□ □□□□□.

□□:

□□□(□□□) :

1. □□ YAML□□ Securitycontext□ □□□□□.

- □□□□□□ □□□□□ □□ 'spec-template.spec.containerss' □□ □□ 'securityContext' □ □□ □□□□.

- 'runAsLJser' □□□ □□□ □□□ □□ IJID(□: 1000)□ □□□□□.

- □□□□□ □□□ CJID□ □□ □□□ □□□□ □□ □□□□□ 'allowPrivilegeEscalatiom false'□ □□□□□.

- 'readOnly: false'□ 'hostPatm □□ □□□'□ □□□□ □□□□□□□ □□□□ □□□□□ □ □ □ □ □□□ □□□□□.

- 'hostPath' □□□□ '□□'□ □□□□ □□ □□(□: ',/data')□ □□□□□ □□ □□□□ □□ □ □□ □□□□□.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: web-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: web-app
  template:
    metadata:
      labels:
        app: web-app
    spec:
      containers:
      - name: web-app
        image: your-image:latest
        securityContext:
          runAsUser: 1000
          allowPrivilegeEscalation: false
        volumeMounts:
        - name: data-volume
          mountPath: /data
          readOnly: false
      volumes:
      - name: data-volume
        hostPath:
          path: /data
```

2. □□ □□□: - 'kubectl apply -f web-app-deployment.yamr'□ □□□□ □□ YAML □□□ □□ □□□. 3. □□ □□ - 'kubectl get deployments web-app'□ □□□□ □□ □□□ □□□□□. □ □□ Securitycontext□ □□ □□ Pod□ □□□□□ □□□. - 'kubectl describe pod'□ □□□□ Pod□ □□ □□□ □□□□ Securitycontext□ □□□□ □□□□□□ □□□□□. 4. □□□□□ □ □□□: - □□□□□□□ □□□ □□□ ID(1000)□ '/data' □□□ □□□□□ □□□ □ □□ □ □□□□□. - 'securitycontext'□ □□□□ □□□ ID □ □□ □□□ □□ □□□□□□ □□□ □□ □□ □□□ □□□ □ □□□□. - 'runAsIJsers'□ □□□□□ □□□□□ □□ IJID□ □□ □□□. - 'allowPrivilegeEscalation'□ □□□□□ □□□ IJID□ □□□□ □□□ □□□□ □ □ □□ □□□ □□□□□. - 'hostPath' □□ □□□□ □□□□□ □□□ □□□□ □□□□□ □□ □□ □ □□□ □□□. - 'readOnly'□ □□ □□□□ □□ □□□□ □□+□□□□□ □□□□□. - □□□□ □□□□ □□□ UID □□□ hostPath □□□ □□□□□ □ □□□ □□□ □□□ □□ □□□.

NEW QUESTION: 88

□□

□□ Kubernetes□□ □□□□□ □□□□ □ □□□ □□□□□ □□□ Pod□ □□□□ □□□.

□

□□□ □□□ □□□.

* YAML □□□ Pod □□□□□□ □□□□.

/opt/KDPD00101/podl.yml□ □□□□ app1cont□□ □□□□□ □□□□ app1□□□ □□□ □ □□ □□□□□. □ □□□ □□ □□□ □□□ □□ lfccncf/arg-output □□□□ □□□□□. - lines 56 -F

* □□ □□□□ □□□ YAML □□□ □□□□ kubect1 □□□□ Pod□ □□□□□.

* Pod□ □□ □□ □ kubect1 □□□ □□□□ Pod□ □□ □□ □□□□ JSON □□□□ □□□ □ □□□ /opt/KDPD00101/out1.json□□□ □□□ □□□□□□□.

* □□□ □□□ □□ □□□ □□□ □□ □□□ □□ □□ □□□ □□□□□□□.

Answer:

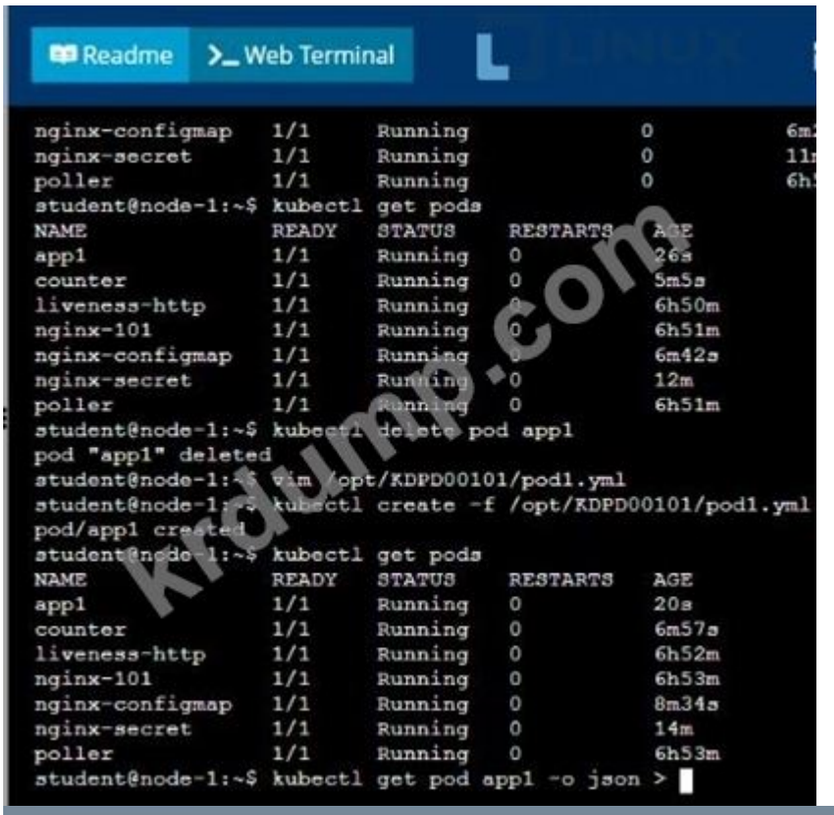
□□□:

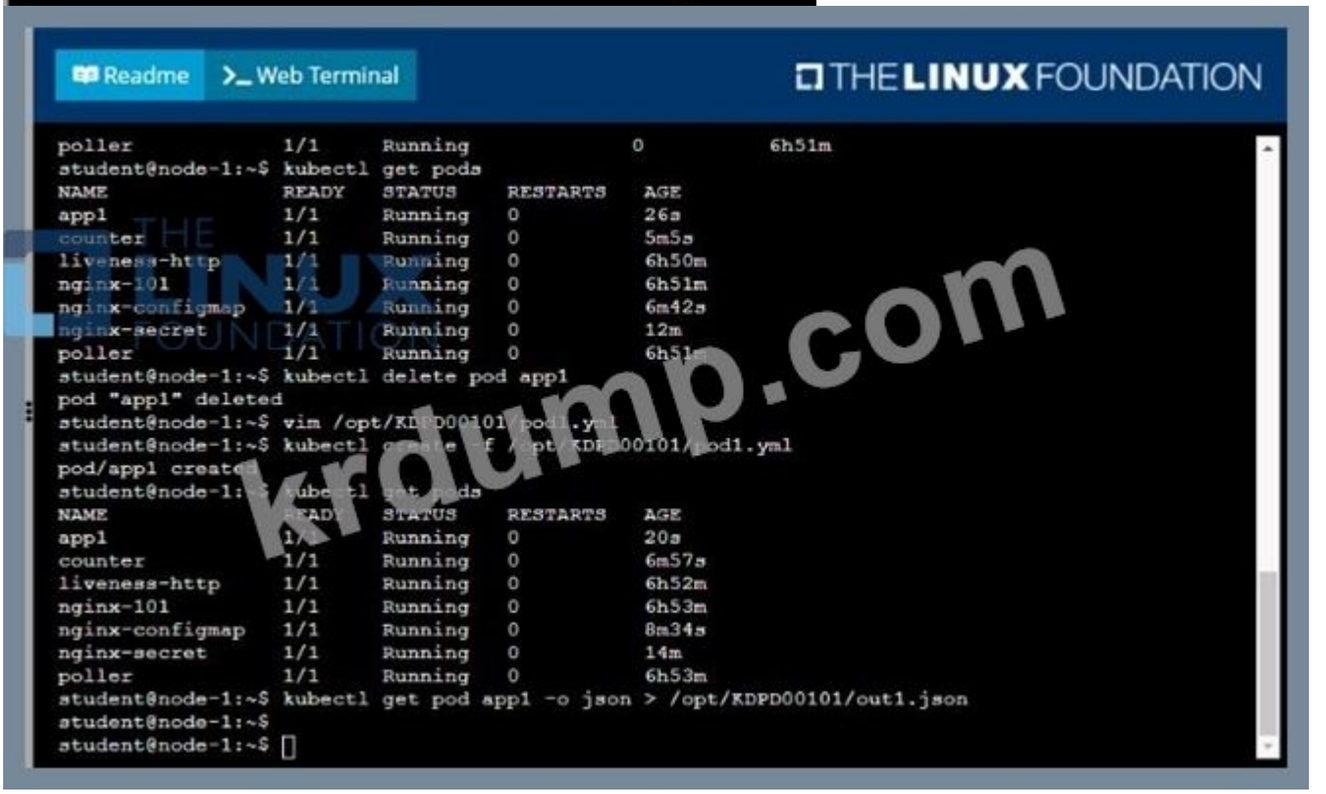
```
student@node-1:~$ kubectl run app1 --image=lfccncf/arg-output --dry-run=client -o yaml > /opt/KD
PD00101/pod1.yml
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
```

Readme | Web Terminal — THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: app1
  name: app1
spec:
  containers:
  - image: lfccncf/arg-output
    name: app1
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
"/opt/KDPD00101/pod1.yml" 15L, 242C                    3,1           All
```


```
pod/app1 created
student@node-1:~$ kubectl get pods
NAME              READY   STATUS              RESTARTS   AGE
app1              0/1     ContainerCreating   0          5s
counter           1/1     Running             0          4m44
liveness-http     1/1     Running             0          6h50
nginx-101         1/1     Running             0          6h51
nginx-configmap   1/1     Running             0          6m21
nginx-secret      1/1     Running             0          11m
poller            1/1     Running             0          6h51
student@node-1:~$ kubectl get pods
NAME              READY   STATUS    RESTARTS   AGE
app1              1/1     Running   0          26s
counter           1/1     Running   0          5m5s
liveness-http     1/1     Running   0          6h50m
nginx-101         1/1     Running   0          6h51m
nginx-configmap   1/1     Running   0          6m42s
nginx-secret      1/1     Running   0          12m
poller            1/1     Running   0          6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
```





NEW QUESTION: 89

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□□ □□□□ □□□□ ConfigMap□ □□□□ Pod□□ ConfigMap□ □□□□ □□□ □□□□ □.

□

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* □/□ □□ □□□□ another-config□□ ConfigMap□ □□□□: key4/value3

* nginx □□□□ □□□□ □□ □□□□□ □□□□ nginx-configmap□□□ □□□ □□□ □□ □□ □□ □□□ □□ /also/a/path □□□□ □□□ □□□ □□□□□□.

Answer:

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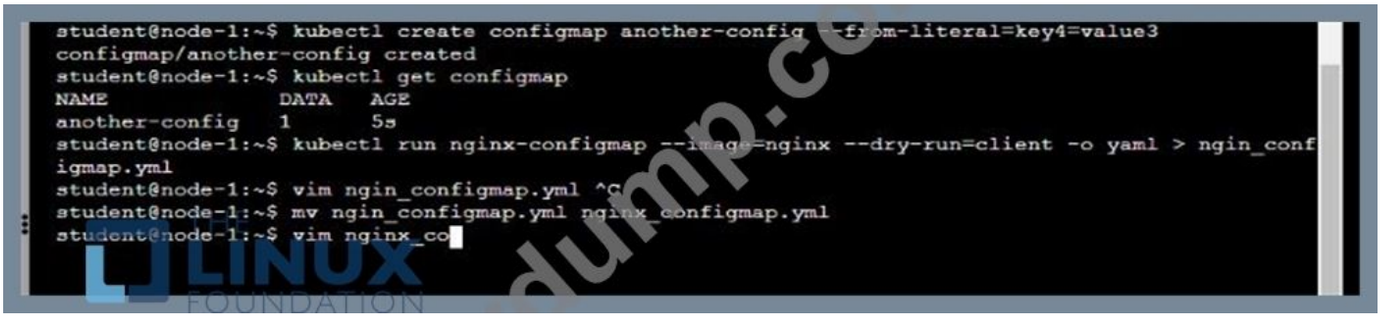



Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
creationTimestamp: null
labels:
run: nginx-configmap
name: nginx-configmap
spec:
containers:
- image: nginx
name: nginx-configmap
resources: {}
dnsPolicy: ClusterFirst
restartPolicy: Always
status: {}
"nginx_configmap.yml" 15L, 262C
1,1
All


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx-configmap
name: nginx-configmap
spec:
containers:
- image: nginx
name: nginx-configmap
volumeMounts:
- name: myvol
mountPath: /also/a/path
volumes:
- name: myvol
configMap:
name: another-config
13,6
All

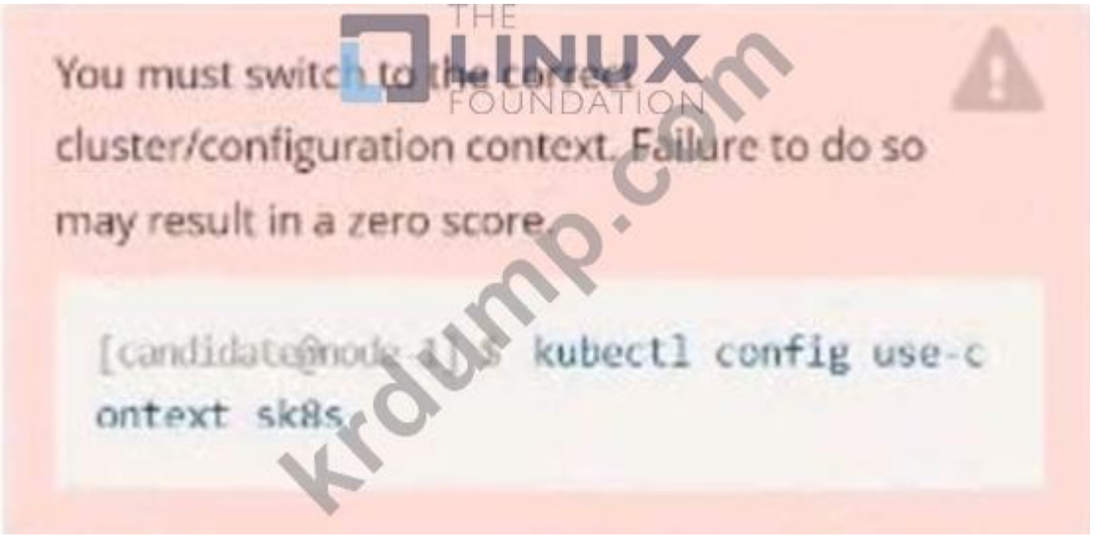

student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME DATA AGE
another-config 1 5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$

```
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$ kubectl create f nginx_configmap.yml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yml
error: error validating "nginx_configmap.yml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yml
```

Readme | Web Terminal — THE LINUX FOUNDATION

```
student@node-1:~$ kubectl create f nginx_configmap.yml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yml
error: error validating "nginx_configmap.yml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$ kubectl create -f nginx_configmap.yml
pod/nginx-configmap created
student@node-1:~$ kubectl get pods
NAME              READY   STATUS              RESTARTS   AGE
liveness-http     1/1     Running             0          6h44m
nginx-101         1/1     Running             0          6h45m
nginx-configmap   0/1     ContainerCreating   0          5s
nginx-secret      1/1     Running             0          5m39s
poller            1/1     Running             0          6h44m
student@node-1:~$ kubectl get pods
NAME              READY   STATUS    RESTARTS   AGE
liveness-http     1/1     Running   0          6h44m
nginx-101         1/1     Running   0          6h45m
nginx-configmap   1/1     Running   0          8s
nginx-secret      1/1     Running   0          5m42s
poller            1/1     Running   0          6h45m
student@node-1:~$ 1
```

NEW QUESTION: 90



□:

1) □□ □□□□□□□ □□ □□ □-□ □□ □□□□ app-secret□□□ □□□ □□□ □□□□.

□3: □1

2) □□ □□□□□□□ ngnix secret□□□ □□□ Pod□ □□□□. nginx:stable □□□□ □□□ □ □□ □□□□□ □□□□□.

□□ □3□ □□ □□□□ BEST_VARIABLE□□□ □□ □□□ □□□□□.

Answer:

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```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  create  secret  generic  app-secret -n default  --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME         TYPE     DATA   AGE
app-secret   Opaque   1      4s
candidate@node-1:~$ kubectl  run nginx-secret -n default  --image=nginx:stable --dry-run=client -o yaml> sec.yaml
candidate@node-1:~$ vim sec.yaml
```

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```
File  Edit  View  Terminal  Tabs  Help
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-secret
  name: nginx-secret
  namespace: default
spec:
  containers:
  - image: nginx:stable
    name: nginx-secret
    env:
      - name: BEST_VARIABLE
        valueFrom:
          secretKeyRef:
            name: app-secret
            key: key3
:wq
```

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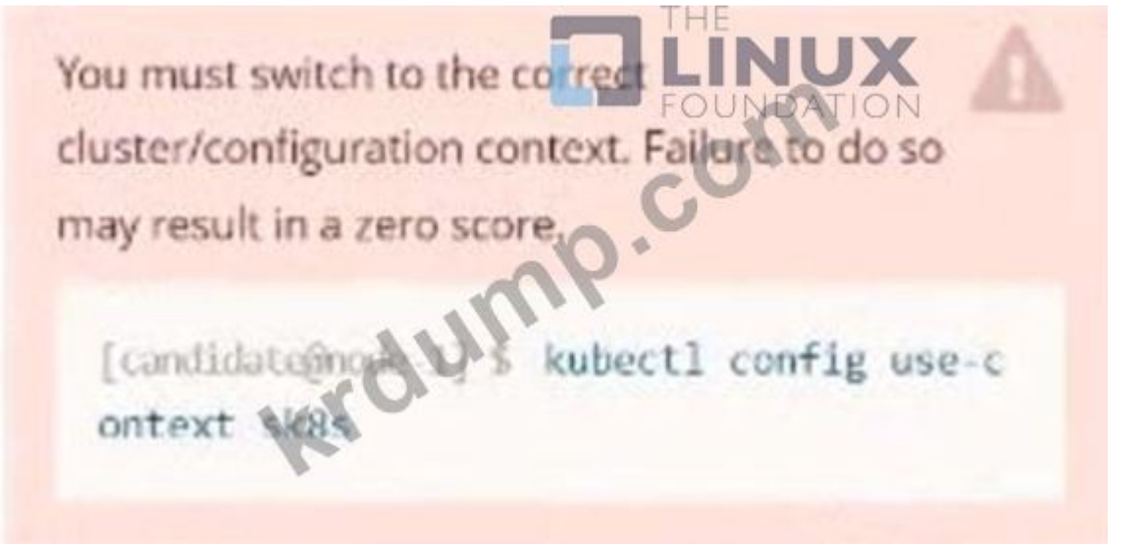
```
Switched to context "k8s".
candidate@node-1:~$ kubectl  create  secret  generic  app-secret -n default  --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME         TYPE     DATA   AGE
app-secret   Opaque   1      4s
candidate@node-1:~$ kubectl  run nginx-secret -n default  --image=nginx:stable --dry-run=client -o yaml> sec.yaml
candidate@node-1:~$ vim sec.yaml
candidate@node-1:~$ kubectl  create  -f sec.yaml
pod/nginx-secret created
candidate@node-1:~$ kubectl get pods
NAME           READY   STATUS    RESTARTS   AGE
nginx-secret   1/1     Running   0          7s
```

NEW QUESTION: 91

□□



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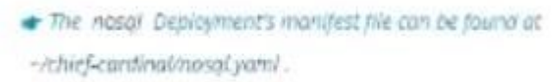
craytisn □□□□□□□ □□ nosql□□□ □□□ □□□ □□□□ □□□□ □□□□ □□□□ □□□□.

Pod□ □□□ □□ □□□ nosol □□□ □□□□□□□.

1) □□□□□ 160M□ □□□□ □□□□□.

2) crayfah □□□□□□□ □□□ □□ □□□ □□ □□□ □□□□ □□□□ □□□□□.



Answer:

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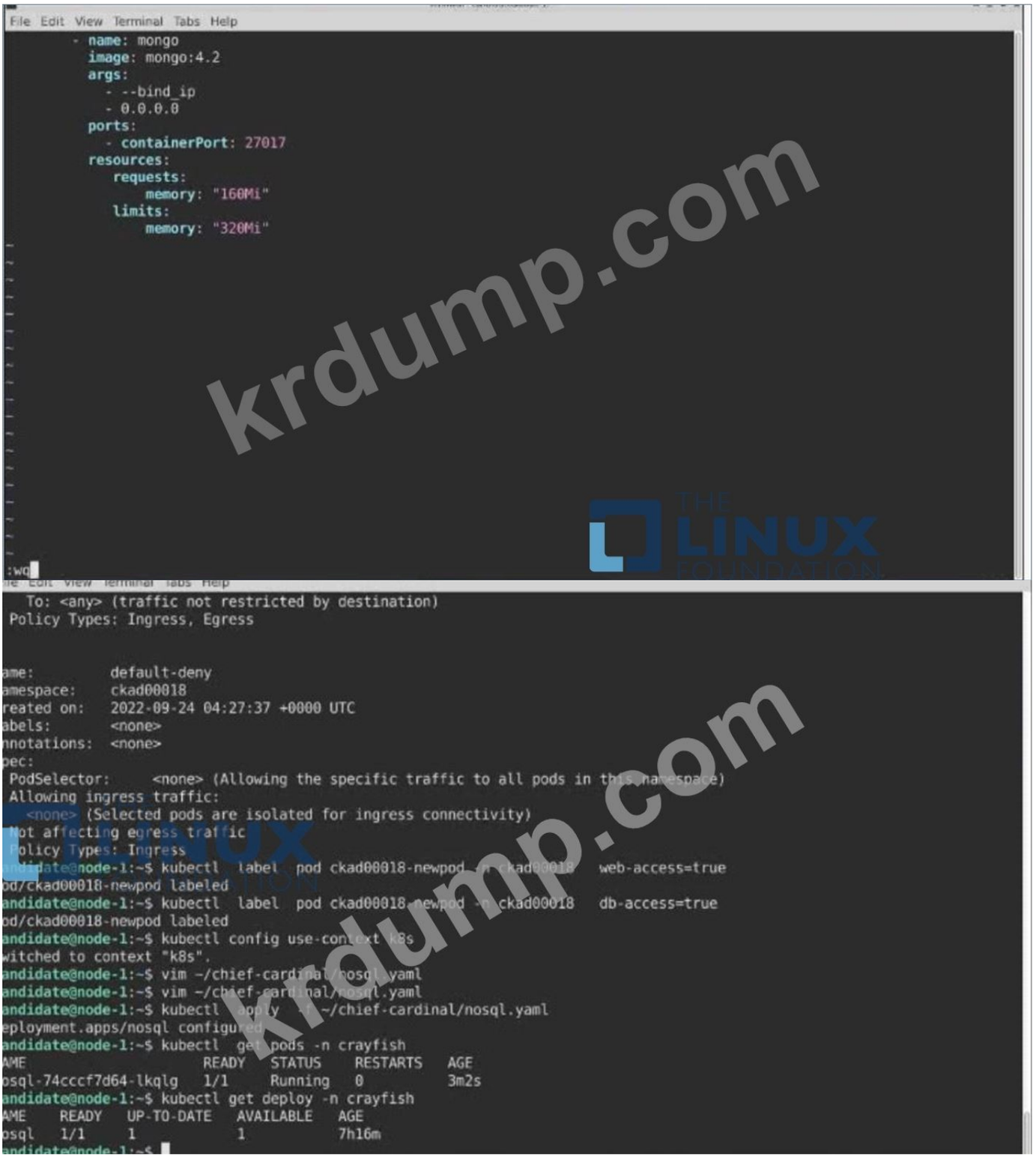

NEW QUESTION: 92

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Answer:

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1. □□□ □□□□ □□□□ □□□□□.

- □□□□ □□ □□□ □□ □□□ □□□□ □□□ □□□□□. □:

- 'book-service': 'order.type=books'

- '□□ □□□: 'order.type=□□ □□'

2. ConfigMap□ □□□□.

- □□ □□□ □□□ □□□ □□□ □□ □□□ □□□□ 'order-backend-mapping'□□□ ConfigMap□ □□□□.

- ConfigMap□ □□□□ □□ □□□ □□ □□□ □□□□ □□□□ □□□□□.

3. □□ □□□ □□ □□: - 'order-service-deployment'□□ ConfigMap□□ □□□ □□□ □□□ □□□□ init □□□□□ □□□□□. - □ □□□ □□□□ □ □□□ □□□ □□□ □□□□ □ □□□□. - init □□□□□ □□□ □□□□ □□ □□□ □□□□□ □□□ □□□ □□□ □ □ □□□.

4. □□ □□□ □□□□: - 'order-service' □□□□□ init □□□□□□ □□□ □□ □□□ □□ □□ □□□ □□□ □□□□ □□□□□□ □□□□ □□□ □□□□□. 5. □□ □□ □□: -

'kubectl apply'□ □□□□ □□□□□ ConfigMap□ □□□ □□□□□. 6. □□ □□ □□□: - □ □□ □□□ □□□ □□□□ 'order-service' □□□ □□□ □□□ □□□□ □□□□ □□□□□ □□□□□.

NEW QUESTION: 93

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Answer:

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□□□(□□□) :

1. ConfigMaps □□:

- □□ □□□ □□□□ □□ 'ConfigMap'□ □□□□□.
- □□ □□□ □□□□ YAML □□(□: 'config.yamIS')□ □□□□.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: my-microservice-config
data:
  config.json: |
    {
      "database": {
        "host": "database.example.com",
        "port": 5432
      }
    }
```

2. ConfigMap □□□: - '□□ □□'□□ □□ □□□□ □□□□ 'configMap'□ □□□□□ □□□ □□□.

3. □□ □□□□: - 'kubectl patch configmap my-microservice-config -type-merge -p' {"data": {"config-json"' "updated'□ □□□□ 'ConfigMap'□ □□ □□□□□□□. - □□ □□□ □□□□ □□□ □□□□ □□□ □□□□□. 4. □□ □□□: - □□□□□□□ □□□ □□□□ □□(□: '/etc/config')□□ □□ □□□ □□□ □□□. - □□: □ □□□ □□□□ □□□ □□□□□□ □ □ □□□□□ □□ □□□ □□□ □□□□. 'ConfigMaps'□ □□ □□ □□□ □□, □□ □□□ □□ □□□ □□□□ □□□ □□□□ □□□ □□□□ □□□□□.

NEW QUESTION: 94

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nginx □□□□ □ □□□□ □□□□, □ □□□□ □□□□□□ □□□□ □□□ □ □□□ □□ □□ □□□ □□□□ □□□. □□□□ □ □□ □□ □□ □□□□ □□□□ □□□ □□ □□□.

Answer:

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□□□(□□□) :

1. Nginx □□□□ □□ □□□□ □□ □□:

- 'app=nginx' □□□ □□ □□□□ Sapp-app □□□ □□ □□□□ □□□□ □□□□ 'nginx-

policy'□□ NetworkPoliCY□ □□□□□.
- 'ingress' □□□ □□□□ nginx □□□□ □□□□ □□□□ □□□□□.
- nginx □□□□ □□ □ □□□□□.
- □□ □□□ □□□□□.

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: nginx-policy
spec:
  podSelector:
    matchLabels:
      app: nginx
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: app
    ports:
    - protocol: TCP
      port: 80
  egress: []
```

2. App Service□ □□ □□□□ □□ □□: - 'app=app' □□□ □□ Pod□□ 'app=database' □□ □ □□ Pod□□ □□□□ □□□□ 'app-policy'□□ □□□ NetworkP01iCY□ □□□□. - 'ingress' □□□ □□□□ App Service□ □□ □□ □□□□ □□□□□. - App Service□ □□ 'podSelector'□ □□□□□. - □□□□□□ □□□□ □□□□ □□□□ □□□□ □□□□□.

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: app-policy
spec:
  podSelector:
    matchLabels:
      app: app
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: database
    ports:
    - protocol: TCP
      port: 5432
  egress: []
```

3. NetworkPolicy □□ □□ - 'kubectl apply' □□□ □□□□ NetworkPolicy□ □□□□□. bash kubectl apply -f nginx-policy.yaml kubectl apply -f app-policy.yaml 4. □□ □□□□ □□ □□: - □□□□□ □□ □□□□ □□□□ 'default-policy'□□ NetworkPoliCY□ □□□□□. - □□□ □ □ □□ □□□ □□ □□□□ □□□□ □□□□□.

5. □□ □□□□ □□ □□: - 'kubectl apply' □□□ □□□□ NetworkPoliCY□ □□□□□. bash kubectl apply -f default-policy_yaml □ □□□ □□ □□□ □□□□□. - Nginx □□□: □□ 80□ □ '□' □□□□ □□□□ □ □□□ □□ □□□□ □□□□□ □□ □ □□□□. - □ □□□: □ □ 5432□□ '□□□□□□' □□□□ □□□□ □ □□□ □□ □□□□ □□□□□ □□ □ □□ □□. - □□ □□ □□: □□□□□ □□ □□ □□□ □□ □□□□ □□□ □□ □□ □□□□ □ □ □ □□□□□.

NEW QUESTION: 95

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Answer:

□□□ □□□ □□ □□□ □□□□ □□□□□.

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□□□(□□□) :

1. □□□□ □□□ □□□:

- □□ □□□□□ □□□ □□ □□□□ □□□□ □□□□ □□□□□ Dockerfile□ □□□□.

- □□□□ □□□□ □□□□ □□□□□(□: Docker Hub)□ □□□□□.

□□□

ubuntu:latest□□

□□□ □□□ □□

apt-get update && apt-get install -y zip□ □□□□□.

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COPY backup.sh 'backup.sh

□□ □□□□□ □□□ □□

□□□ ["/backup.sh"]

2. CronJob YAML□ □□□□.

- YAML □□□ 'cronJob' □□□□ □□□□□. □□, □□□□ □□□, □□□ □□□ □□□□□.

```
apiVersion: batch/v1
kind: CronJob
metadata:
  name: daily-backup
spec:
  schedule: "0 0    "  # Run at midnight every day
  jobTemplate:
    spec:
      template:
        spec:
          containers:
          - name: backup-container
            image: your-registry.com/your-username/backup-image:latest
            command: ["/backup.sh"]
      backoffLimit: 4
      parallelism: 1
```

3. CronJob □□: - 'kubectl apply -f cronjob.yamr'□ □□□□ Kubernetes □□□□□ YAML □□ □ □□□□□. 4. □□: - 'kubectl get cronjobs'□ □□□□ CronJob□ □□□□□ □□□□□□ □□□□□. - CronJob□ □□ Kubernetes □□□ □□□□ □□□□ □□□□□ □□□□□.

NEW QUESTION: 96
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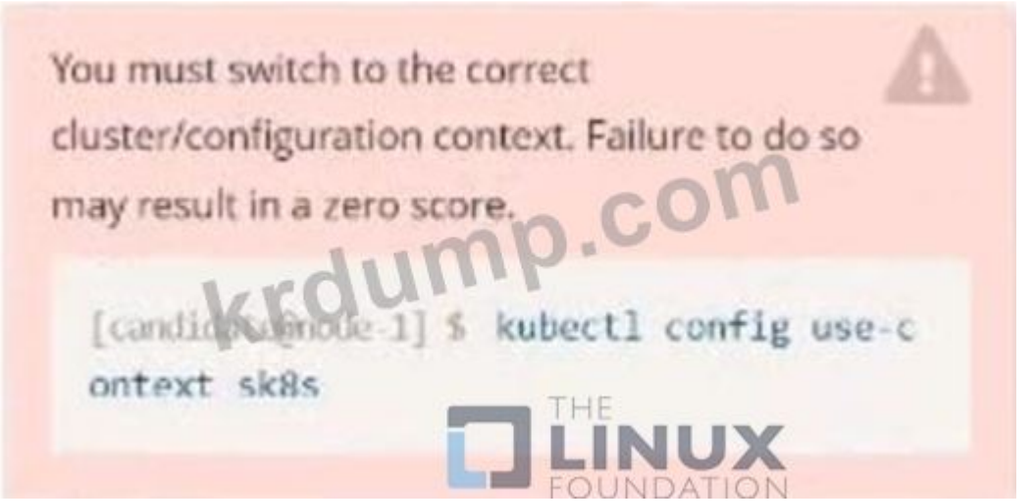

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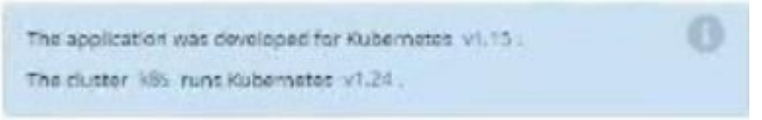
1) □□□□□ □□ -/credible-mite/www.yaml□□ API □□□□ □□□ □□□□ □ □□□□□□ □ □□□□ K8s□ □□□ □ □□□ □□□.



2) □□□□□ □□□□□ □□ -/credible-mite/www.yaml□ □□□ □□□□□□□ cobra □□□ □□□□ □□□□□.

Answer:

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NEW QUESTION: 97

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Answer:

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NEW QUESTION: 98

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[student@node-1] $ | kubectl

k8s □□ □□□□ □□

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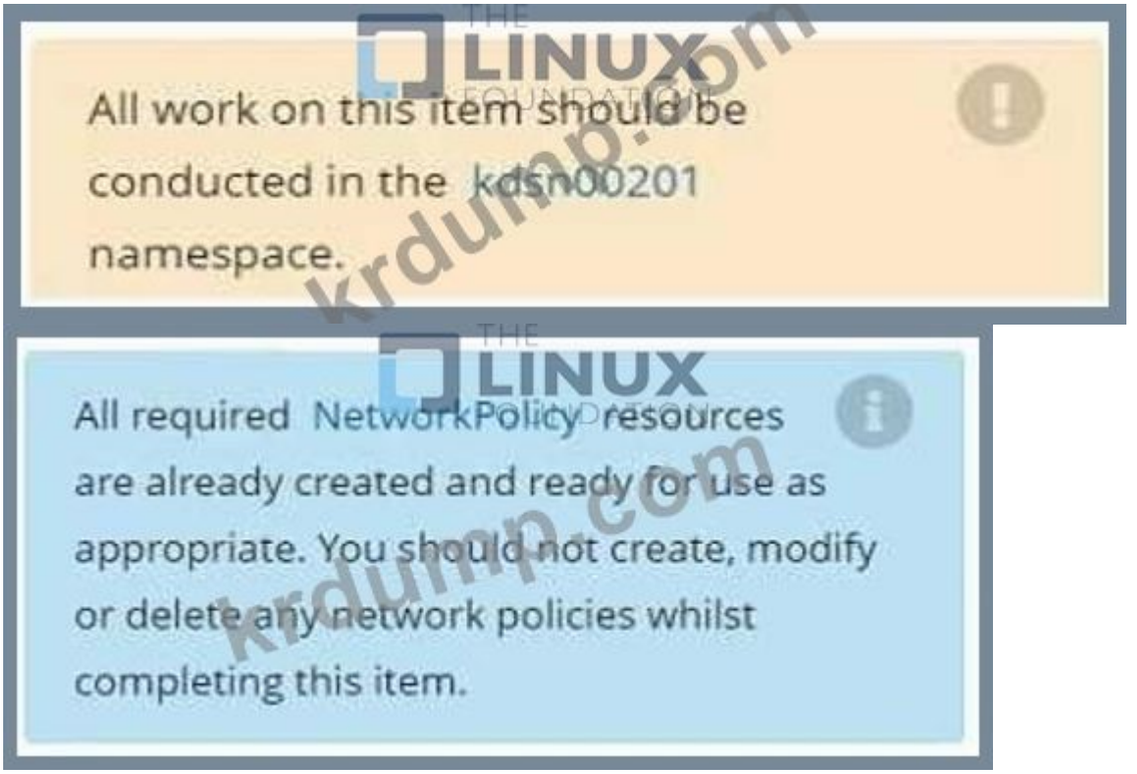

Answer:

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api □□: networking.k8s.io/v1
□□: NetworkPolicy
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□□: newpod-network-policy
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□: kdsn00201-newpod
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kubectl □□ -f <□□□□ □□ □□>.yaml
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NetworkPolicy □□□□ □□□□□ □□□ □ □□□□ Kubernetes □□□□□□ NetworkPolicy □□□ □□□□□ □□□. □ □□□ □□ □□□□□□□ □□□□□ □□□□□ □□□, □□ □□□□□□□ □□□□□ □□□□□ □□□. kubectl api-versions | grep networking □□ □ □□□ NetworkPolicy□ □□□ □ □□□ □□□ □ □□□□. □□, □□□□ □□□□□ Pod□ □□□ □□□□□□□□ □□ □□□ □□□□ □□□.

NEW QUESTION: 99

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Answer:

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NEW QUESTION: 100

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Kubernetes □□□□□□ □□□□□ □□ □□ □□□□□□□ □□□□□□ □□ □□□ □□ □□.

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* kdpd00202 □□□□□□□□ □ □□□ maxSurge□ 5%, maxUnavailable□ 2%□ □□□□□ □□.

* lfccncf/ngmx □□□ □□□ 1.13□□ □□□□ web1 □□□ □□ □□□□□ □□□□□.

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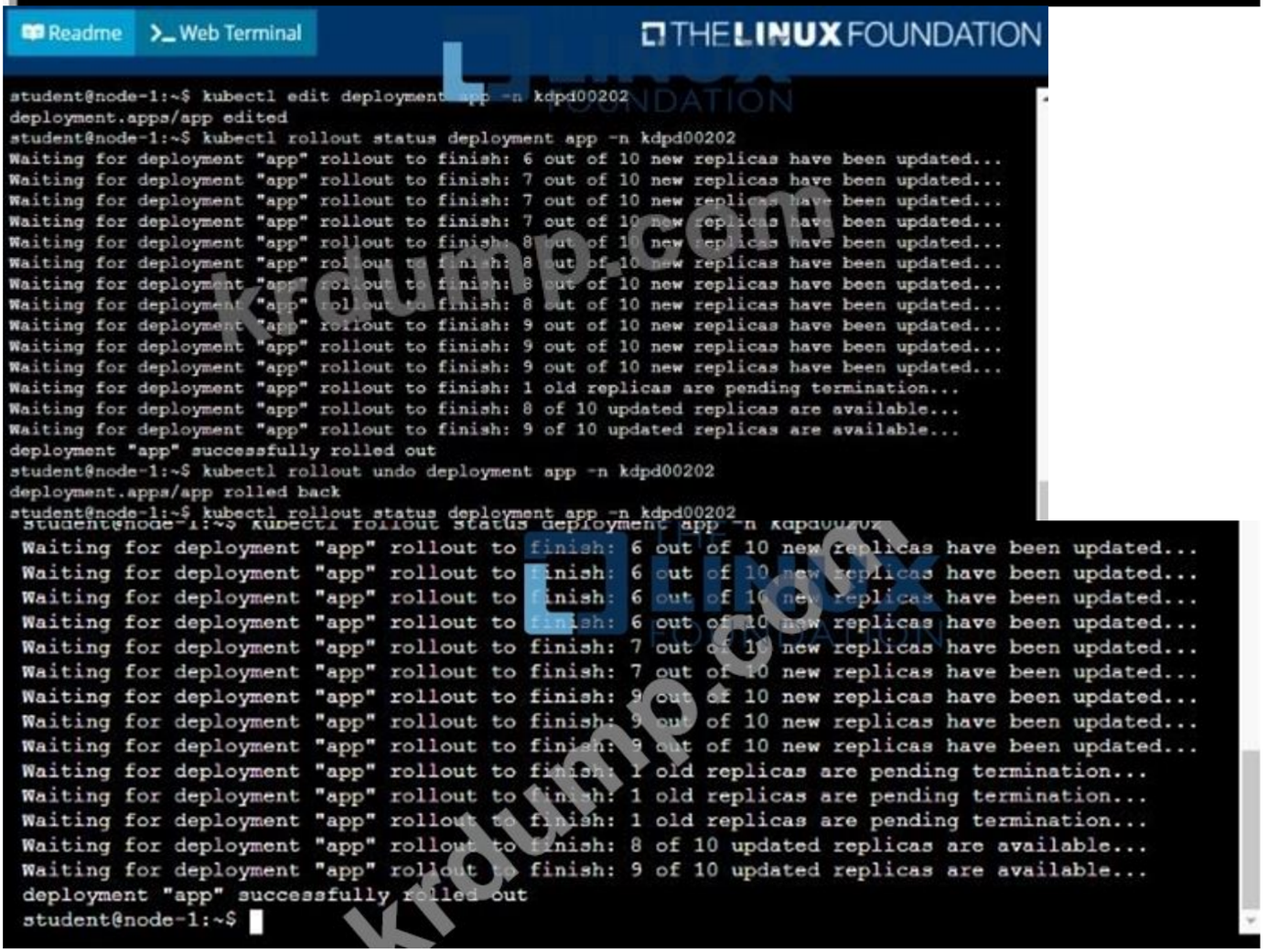
A. □□□:


Readme
Web Terminal
THE LINUX FOUNDATION
uid: 1dfa2527-5c61-46a9-8dd3-e24643d3ce14
spec:
progressDeadlineSeconds: 600
replicas: 10
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 5%
maxUnavailable: 2
type: RollingUpdate
template:
metadata:
creationTimestamp: null
labels:
app: nginx
spec:
containers:
- image: lfccncf/nginx:1.13
imagePullPolicy: IfNotPresent
name: nginx
ports:
- containerPort: 80
protocol: TCP
:wq!


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl edit deployment app -n kdpd00202
deployment.apps/app edited
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$ kubectl rollout undo deployment app -n kdpd00202
deployment.apps/app rolled back
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$

B. □□□:

Answer: (SHOW ANSWER)

NEW QUESTION: 101

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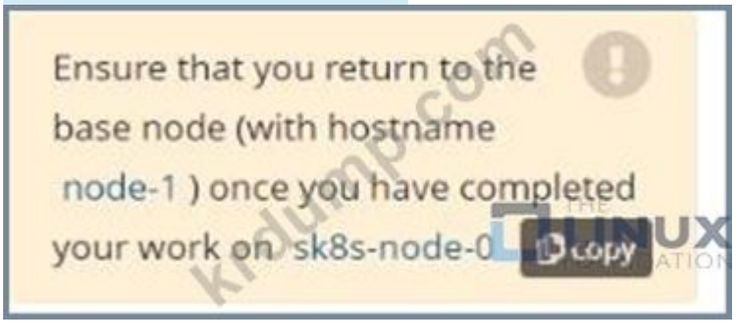
* /opt/KDSP00101/data/index.html□ □□ sk8s-node-0□ Acct=Finance□□ □□□ □□□ □□ □□.

* hostPath□ □□□□ task-pv-volume□□□ □□□ PersistentVolume□ □□□□ 1Gi□ □□□ □, □□□ □□□□ □□□ /opt/KDSP00101/data□ □□□□□ □□□□□. □□□□ □□□ □ □□ ReadWriteOnce□ □□□□ □□□. □□, PersistentVolumeClaim □□□ □ PersistenetVolume□ □□□□□ □ □□□ PersistentVolume□ StorageClass □□ exam□ □□ □□ □□□.

* □□ 100Mi□ □□□ □□□□ ReadWriteOnce □□□ □□□ □□□□ task-pv-claim□□□ □ □□ PefsissentVolumeClaim□ □□□□□.

* □□ app: my-storage-app□ □□□□ PersistentVolmeClaim□ □□□□ □□□□ □□□ □□ □□ □□ □□□ mountPath /usr/share/nginx/html□ □□ □□□ □□□□□□.



Answer:


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
student@node-1:~$

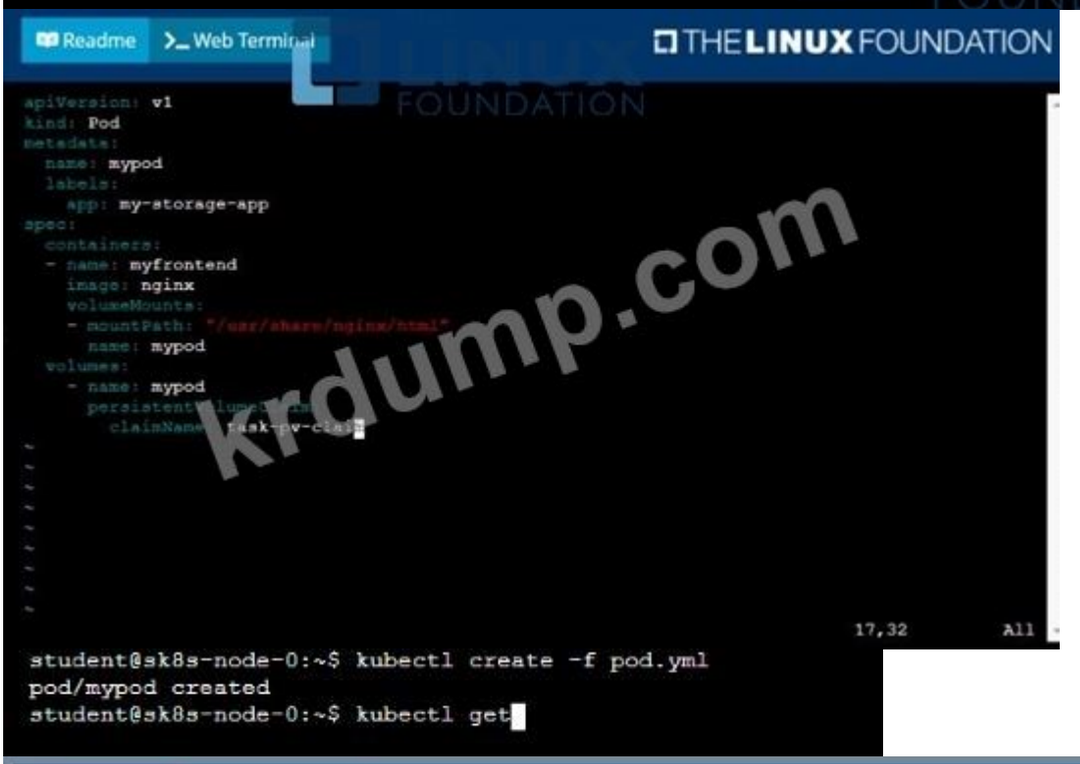

Readme
Web Terminal
THE LINUX FOUNDATION
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Oct 9 08:52:09 UTC 2020
System load: 2.02
Usage of /: 10.3% of 242.29GB
Memory usage: 2%
Swap usage: 0%
Processes: 38
Users logged in: 0
IP address for eth0: 10.250.3.115
IP address for docker0: 172.17.0.1
IP address for cni0: 10.244.1.1
* Kubernetes 1.19 is out! Get it in one command with:
sudo snap install microk8s --channel=1.19 --classic
https://microk8s.io/ has docs and details.
7 packages can be updated.
1 update is a security update.
New release '20.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
student@sk8s-node-0:~$


Readme
Web Terminal
THE LINUX FOUNDATION
student@sk8s-node-0:~$ echo 'Acct=Finance' > /opt/KDSP00101/data/index.html
student@sk8s-node-0:~$ vim pv.yml


Readme
Web Terminal
THE LINUX FOUNDATION
-- INSERT --
0,1
All


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: PersistentVolume
metadata:
name: task-pv-volume
spec:
capacity:
storage: 1Gi
accessModes:
- ReadWriteOnce
storageClassName: storage
hostPath:
path: /opt/KDSP00101/data
type: Directory


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
name: task-pv-claim
spec:
accessModes:
- ReadWriteOnce
resources:
requests:
storage: 100Mi
storageClassName: storage



NEW QUESTION: 102

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Answer:

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I). CronJob YAML □□□ □□□□.

- □□ □□□ 'database-update-cronjob.yaml'□□□ YAML □□□ □□□ Stan□ □□□□□.

```
apiVersion: batch/v1
kind: CronJob
metadata:
  name: database-update
spec:
  schedule: "0 1    "  # Run at 1:00 AM every day
  jobTemplate:
    spec:
      template:
        spec:
          containers:
          - name: database-update
            image: database-update:v1
            command: ["/bin/sh", "-c", "update_database.sh"]
            env:
            - name: DATABASE_HOST
              valueFrom:
                secretKeyRef:
                  name: database-credentials
                  key: DATABASE_HOST
            - name: DATABASE_USER
              valueFrom:
                secretKeyRef:
                  name: database-credentials
                  key: DATABASE_USER
            - name: DATABASE_PASSWORD
              valueFrom:
                secretKeyRef:
                  name: database-credentials
                  key: DATABASE_PASSWORD
      backoffLimit: 4   # Retry up to 4 times if the job fails
```


2. □□□□□□ □□ □□□ □□ □□□□ □□□□□. - □□□ □□□□□□ □□ □□□ □□ □ 'database-credentials'□□ □□□ Kubernetes □□□□ □□□□□.] bash kubectl create secret generic database-credentials \ --trom-literal=DATA8ASE HOST=your_database host \ --from-literal=DATA8ASE_USER=your_database_user --from-literal=DATA8ASE_PASSWORD=your_database_password 3. CronJob□ □□□□□. - 'kubectl apply -f database-update-cronjob.yamr'□ □□□□ CronJob YAML □□□ □□□□□. 4. CronJob□ □□□□□. - "kubectl get cronjobs"□ □□□□ CronJob□ □□□ □□□□ □□□□ □ □□□□□□ □□□□□. - 'schedule': CronJob□ □□□ □□□□□. □ □□ "0 1"□ □□□ □ □□□ □□ □□ 1□□ □□□□□. - 'jobTemplate': CronJob□□ □□□ □□□ □□□□ □ □□□□. - 'containers': □□□□□□ □□□□ □□□□□ □□□ □□□□□ □□□□□. -

'images': □□□□□ □□□□ 'database-update:vl'□ □□□□□. - 'command': □□□□□□ □ □□ □□□ □□□□□. - □□□□□□ □□□□ □□□□□ □□□ □□ □□□ □□□□□. □ □□, □□□ □□□ □□□ □□□ □□ 'database-credentials'□□ Kubernetes □□□□ □□□ □□□□□. - 'backoffLimit': □□ □□ □ □□ □□□ □□□ □□□□□.

NEW QUESTION: 103

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Answer:

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