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Shared by Parrish on 24-05-2024

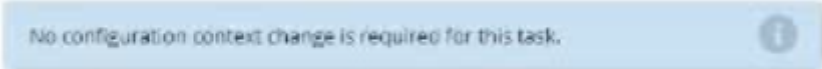
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Question 1

Question Type: MultipleChoice

Refer to Exhibit.

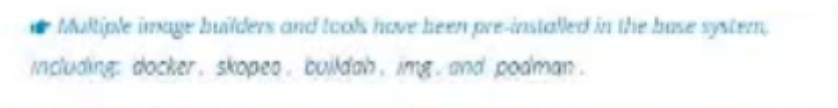


No configuration context change is required for this task.


Task:

A Dockerfile has been prepared at `-/human-stork/build/Dockerfile`

1) Using the prepared Dockerfile, build a container image with the name `macque` and tag `3.0`. You may install and use the tool of your choice.



Multiple image builders and tools have been pre-installed in the base system, including: `docker`, `skopeo`, `buildah`, `img`, and `podman`.



Please do **not** push the built image to a registry, run a container, or otherwise consume it.

2) Using the tool of your choice export the built container image in OC-format and store it at `-/human stork/macque 3.0 tar`

Options:

A- Explanation:

Solution:

```
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$
```

```
File Edit View Terminal Tabs Help
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 db-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
deployment.apps/nosql configured
candidate@node-1:~$ kubectl get pods -n crayfish
NAME                READY   STATUS    RESTARTS   AGE
nosql-74cccf7d64-lkqlg 1/1     Running   0           3m2s
candidate@node-1:~$ kubectl get deploy -n crayfish
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
nosql  1/1     1             1           7h16m
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
--> ea335eeal7ab
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/
```

```
File Edit View Terminal Tabs Help
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
deployment.apps/nosql configured
candidate@node-1:~$ kubectl get pods -n crayfish
NAME                READY   STATUS    RESTARTS   AGE
nosql-74ccc7d64-lkqlg 1/1     Running   0           3m2s
candidate@node-1:~$ kubectl get deploy -n crayfish
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
nosql  1/1     1             1           7h16m
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
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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
```

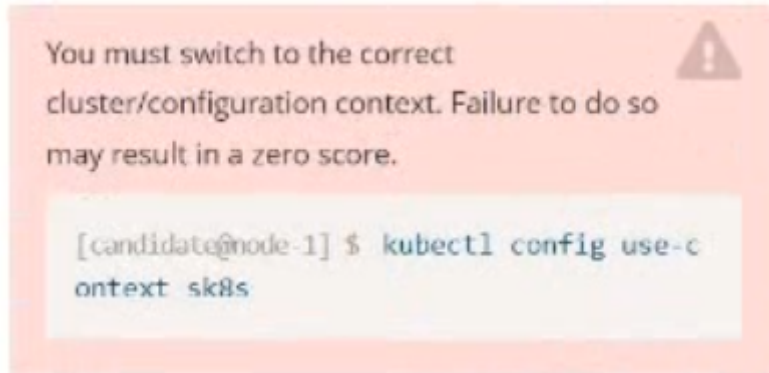
Answer:

A

Question 2

Question Type: MultipleChoice

Refer to Exhibit.



Task:

The pod for the Deployment named nosql in the craytish namespace fails to start because its container runs out of resources.

Update the nosql Deployment so that the Pod:

- 1) Request 160M of memory for its Container
- 2) Limits the memory to half the maximum memory constraint set for the crayfah name space.

• The nosql Deployment's manifest file can be found at
~/chief-cardinal/nosql.yaml.

Options:

A- Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
```

```
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nosql
  namespace: crayfish
  labels:
    app.kubernetes.io/name: nosql
    app.kubernetes.io/component: backend
spec:
  selector:
    matchLabels:
      app.kubernetes.io/name: nosql
      app.kubernetes.io/component: backend
  replicas: 1
  template:
    metadata:
      labels:
        app.kubernetes.io/name: nosql
        app.kubernetes.io/component: backend
    spec:
      containers:
        - name: mongo
          image: mongo:4.2
          args:
            - --bind_ip
            - 0.0.0.0
          ports:
            - containerPort: 27017
```



```
- name: mongo
  image: mongo:4.2
  args:
    - --bind_ip
    - 0.0.0.0
  ports:
    - containerPort: 27017
  resources:
    requests:
      memory: "160Mi"
    limits:
      memory: "320Mi"
```

```
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:~$ kubectl config use-context k8s
```

```
Switched to context "k8s".
```

```
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
```

```
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
```

```
candidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
```

```
deployment.apps/nosql configured
```

```
candidate@node-1:~$ kubectl get pods -n crayfish
```

NAME	READY	STATUS	RESTARTS	AGE
nosql-74cccf7d64-lkqlg	1/1	Running	0	3m2s

```
candidate@node-1:~$ kubectl get deploy -n crayfish
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
nosql	1/1	1	1	7h16m

```
candidate@node-1:~$ █
```

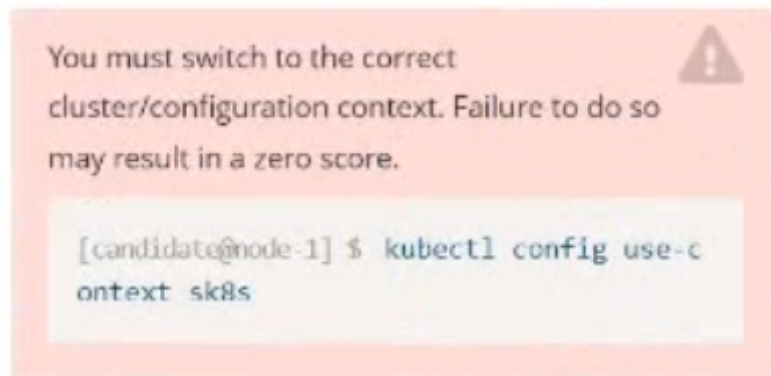
Answer:

A

Question 3

Question Type: MultipleChoice

Refer to Exhibit.

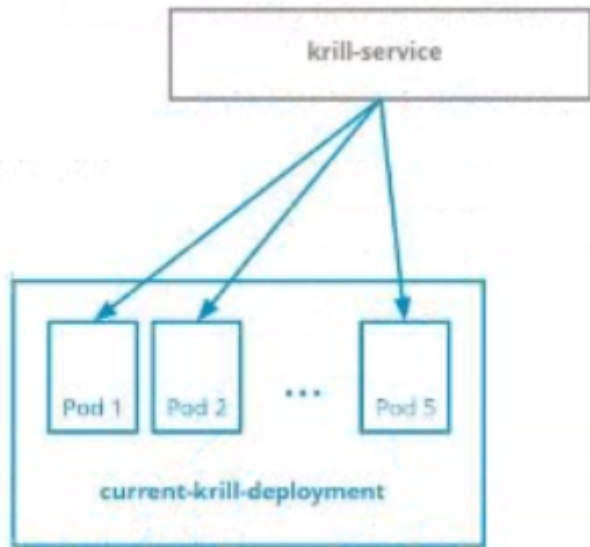


Context

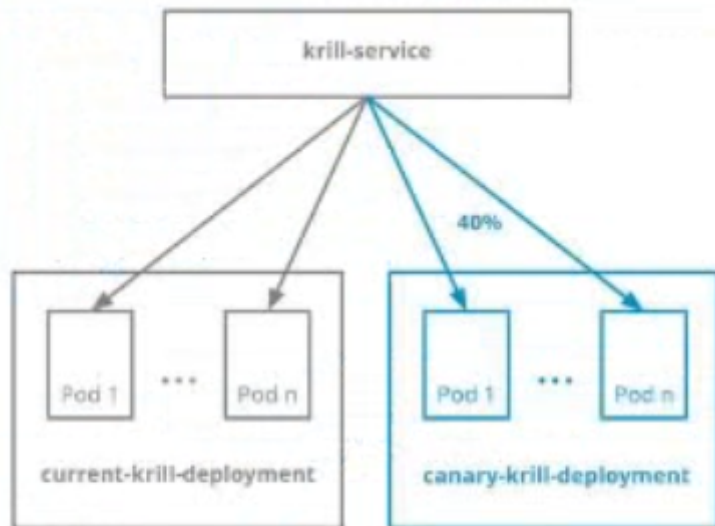
You are asked to prepare a Canary deployment for testing a new application release.

Task:

A Service named krill-Service in the goshark namespace points to 5 pod created by the Deployment named current-krill-deployment



- 1) Create an identical Deployment named canary-kill-deployment, in the same namespace.
- 2) Modify the Deployment so that:
 - A maximum number of 10 pods run in the goshawk namespace.
 - 40% of the krill-service 's traffic goes to the canary-krill-deployment pod(s)



```
The Service is exposed on NodePort: 30000 . To test its load-balancing,
run:

[candidate@node-1] $ curl http://k8s-master-0:30000/
```

Options:

A- Explanation:

Solution:

```
candidate@node-1:~/humane-storks$ kubectl scale deploy canary-krill-deployment --replicas 4 -n goshawk
deployment.apps/canary-krill-deployment scaled
candidate@node-1:~/humane-storks$ 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-storks$ wget https://k8s.io/examples/
```

File Edit View Terminal Tabs Help

```
candidate@node-1:~/humane-storks$ 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
```

```
Resolving k8s.io (k8s.io)... 34.107.204.206, 2600:1901:0:26f3::
```

```
Connecting to k8s.io (k8s.io)|34.107.204.206|:443... connected.
```

```
HTTP request sent, awaiting response... 301 Moved Permanently
```

```
Location: 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
```

```
Resolving kubernetes.io (kubernetes.io)... 147.75.40.148
```

```
Connecting to kubernetes.io (kubernetes.io)|147.75.40.148|:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 90 [application/x-yaml]
```

```
Saving to: 'quota-pod.yaml'
```

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

```
2022-09-24 11:43:52 (15.0 MB/s) - 'quota-pod.yaml' saved [90/90]
```

```
candidate@node-1:~/humane-storks$ vim quota-pod.yaml
```

2022-09-24 11:43:52 (15.0 MB/s) - 'quota-pod.yaml' saved [90/90]

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

```
candidate@node-1:~/humane-stork$ kubectl create -f quota-pod.yaml
resourcequota/pod-demo created
```

```
candidate@node-1:~/humane-stork$ kubectl get quota -n go
```

No resources found in go namespace.

```
candidate@node-1:~/humane-stork$ kubectl get quota -n goshawk
```

NAME	AGE	REQUEST	LIMIT
------	-----	---------	-------

pod-demo	19s	pods: 9/10	
----------	-----	------------	--

```
candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
```

current-krill-deployment-fb7c7995c-kvtjr

app.kubernetes.io/name="current"

app.kubernetes.io/part-of="krill"

```
candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
```

current-krill-deployment-fb7c7995c-4whfm

app.kubernetes.io/name="current"

app.kubernetes.io/part-of="krill"

```
candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
```

canary-krill-deployment-5f78fd4786-dfk7l

app.kubernetes.io/name="canary"

app.kubernetes.io/part-of="krill"

```
candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
```

canary-krill-deployment-5f78fd4786-z5zrt

app.kubernetes.io/name="canary"

app.kubernetes.io/part-of="krill"

```
candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
```

canary-krill-deployment-5f78fd4786-2774b

app.kubernetes.io/name="canary"

app.kubernetes.io/part-of="krill"

```
candidate@node-1:~/humane-stork$
```

Answer:

A

Question 4

Question Type: MultipleChoice

Refer to Exhibit.



Task:

Update the Pod ckad00018-newpod in the ckad00018 namespace to use a NetworkPolicy allowing the Pod to send and receive traffic only to and from the pods web and db

All required NetworkPolicies have already been created.



You must not create, modify or delete any NetworkPolicy while working on this task. You may only use existing NetworkPolicies.

Options:

A- Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context nk8s
Switched to context "nk8s".
candidate@node-1:~$ kubectl describe netpol -n ckad00018
```

```
terminal - candidate@node-1: ~
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:~$
```

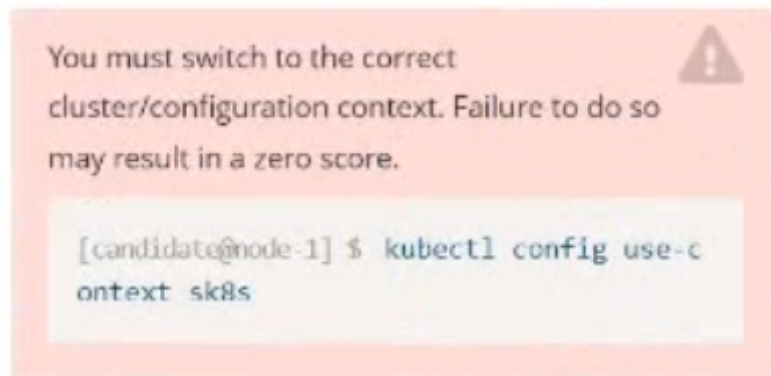
Answer:

A

Question 5

Question Type: MultipleChoice

Refer to Exhibit.



Task:

Modify the existing Deployment named broker-deployment running in namespace quetzal so that its containers.

- 1) Run with user ID 30000 and
- 2) Privilege escalation is forbidden

The broker-deployment is manifest file can be found at:

```
~/daring-mocasin/broker-deployment.yaml
```

Options:

A- Explanation:

Solution:

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

containers:

- name: broker

image: redis:alpine

ports:

- containerPort: 6379

securityContext:

runAsUser: 30000

privileged: false

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/daring-moccasin/broker-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/daring-moccasin/broker-deployment.yaml
deployment.apps/broker-deployment configured
candidate@node-1:~$ kubectl get pods -n quetzal
NAME                                READY   STATUS    RESTARTS   AGE
broker-deployment-65446d6d94-868p6  1/1     Running   0           30s
broker-deployment-65446d6d94-8dn7l  1/1     Running   0           32s
broker-deployment-65446d6d94-p4h4l  1/1     Running   0           31s
candidate@node-1:~$ kubectl get deploy -n quetzal
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
broker-deployment  3/3     3             3           7h3m
candidate@node-1:~$
```

Answer:

A

Question 6

Question Type: MultipleChoice

Refer to Exhibit.

You must switch to the correct cluster/configuration context. Failure to do so may result in a zero score.



```
[candidate@node-1] $ kubectl config use-c  
ontext sk8s
```

Task:

- 1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59
- 2- Update the web1 Deployment to use version tag 1.13.7 for the lfcnf/nginx container image.
- 3- Perform a rollback of the web1 Deployment to its previous version

Options:

A- Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s  
Switched to context "k8s".  
candidate@node-1:~$ kubectl edit deploy web1 -n ckad00015
```

```
  app: nginx
strategy:
  rollingUpdate:
    maxSurge: 2%
    maxUnavailable: 5%
  type: RollingUpdate
template:
  metadata:
    creationTimestamp: null
    labels:
      app: nginx
  spec:
    containers:
      - image: lfcncf/nginx:1.13.7
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
          - containerPort: 80
            protocol: TCP
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
    dnsPolicy: ClusterFirst
    restartPolicy: Always
    schedulerName: default-scheduler
    securityContext: {}
    terminationGracePeriodSeconds: 30
status:
  availableReplicas: 2
  conditions:
    - lastTransitionTime: "2022-09-24T04:26:41Z"
```


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:~$
```

Answer:

A

Question 7

Question Type: MultipleChoice

Refer to Exhibit.



Task:

1) Create a secret named app-secret in the default namespace containing the following single key-value pair:

Key3: value1

2) Create a Pod named nginx secret in the default namespace. Specify a single container using the nginx:stable image.

Add an environment variable named BEST_VARIABLE consuming the value of the secret key3.

Options:

A- Explanation:

Solution:

```
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
```

```
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
```

```
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
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:~$
```

Answer:

A

Question 8

Question Type: MultipleChoice

Refer to Exhibit.

You must switch to the correct cluster/configuration context. Failure to do so may result in a zero score.

```
[candidate@node-1] $ kubectl config use-c  
ontext sk8s
```

Task:

1) Fix any API depreciation issues in the manifest file `-/credible-mite/www.yaml` so that this application can be deployed on cluster K8s.

The application was developed for Kubernetes v1.15.
The cluster k8s runs Kubernetes v1.24.

2) Deploy the application specified in the updated manifest file `-/credible-mite/www.yaml` in namespace cobra

Options:

A- Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s  
Switched to context "k8s".  
candidate@node-1:~$ vim -/credible-mite/www.yaml
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: www-deployment
  namespace: cobra
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: "nginx:stable"
          ports:
            - containerPort: 80
          volumeMounts:
            - mountPath: /var/log/nginx
              name: logs
          env:
            - name: NGINX_ENTRYPOINT_QUIET_LOGS
              value: "1"
      volumes:
        - name: logs
          emptyDir: {}
```

```
deployment.apps/expose created
```

```
candidate@node-1:~$ kubectl get pods -n ckad00014
```

NAME	READY	STATUS	RESTARTS	AGE
expose-85dd99d4d9-25675	0/1	ContainerCreating	0	6s
expose-85dd99d4d9-4fhcc	0/1	ContainerCreating	0	6s
expose-85dd99d4d9-fl7j	0/1	ContainerCreating	0	6s
expose-85dd99d4d9-tt6rm	0/1	ContainerCreating	0	6s
expose-85dd99d4d9-vjd8b	0/1	ContainerCreating	0	6s
expose-85dd99d4d9-vtzpq	0/1	ContainerCreating	0	6s

```
candidate@node-1:~$ kubectl get deploy -n ckad00014
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
expose	6/6	6	6	15s

```
candidate@node-1:~$ kubectl config use-context k8s
```

```
Switched to context "k8s".
```

```
candidate@node-1:~$ vim ~/credible-mite/www.yaml
```

```
candidate@node-1:~$ vim ~/credible-mite/www.yaml
```

```
candidate@node-1:~$ kubectl apply -f ~/credible-mite/www.yaml
```

```
deployment.apps/www-deployment created
```

```
candidate@node-1:~$ kubectl get pods -n cobra
```

NAME	READY	STATUS	RESTARTS	AGE
www-deployment-d899c6b49-d6ccg	1/1	Running	0	6s
www-deployment-d899c6b49-f796l	0/1	ContainerCreating	0	6s
www-deployment-d899c6b49-ztfcw	0/1	ContainerCreating	0	6s

```
candidate@node-1:~$ kubectl get deploy -n cobra
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
www-deployment	3/3	3	3	11s

```
candidate@node-1:~$ kubectl get pods -n cobra
```

NAME	READY	STATUS	RESTARTS	AGE
www-deployment-d899c6b49-d6ccg	1/1	Running	0	14s
www-deployment-d899c6b49-f796l	1/1	Running	0	14s
www-deployment-d899c6b49-ztfcw	1/1	Running	0	14s

```
candidate@node-1:~$ █
```


Answer:

A

Question 9

Question Type: MultipleChoice

Refer to Exhibit.



Task:

Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod. Specify a single container using the ifccnf/nginx: 1.13.7 image

Add an environment variable named NGINX_PORT with the value 8001 to the container then expose port 8001


```
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: expose
  name: expose
  namespace: ckad00014
spec:
  replicas: 6
  selector:
    matchLabels:
      app: expose
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: expose
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7
        name: nginx
        ports:
        - containerPort: 8001
        env:
        - name: NGINX_PORT
          value: "8001"
```

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml > dep.yaml
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl create -f dep.yaml
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME                                READY   STATUS              RESTARTS   AGE
expose-85dd99d4d9-25675             0/1     ContainerCreating   0           6s
expose-85dd99d4d9-4fhcc             0/1     ContainerCreating   0           6s
expose-85dd99d4d9-fl7j              0/1     ContainerCreating   0           6s
expose-85dd99d4d9-tt6rm             0/1     ContainerCreating   0           6s
expose-85dd99d4d9-vjd8b             0/1     ContainerCreating   0           6s
expose-85dd99d4d9-vtzpq             0/1     ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
expose    6/6     6            6           15s
candidate@node-1:~$
```

Answer:

A

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