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QUESTION 1

Exhibit:



Task

A deployment is falling on the cluster due to an incorrect image being specified. Locate the deployment, and fix the problem.

- A. Please check explanations
- B. Place Holder

Correct Answer: AB

Pending

QUESTION 2

Exhibit: Context You are tasked to create a ConfigMap and consume the ConfigMap in a pod using a volume mount. Task Please complete the following: Create a ConfigMap named another-config containing the key/value pair: key4/value3 start a pod named nginx-configmap containing a single container using the nginx image, and mount the key you just created into the pod under directory /also/a/path

Set configuration context:

```
[student@node-1] $ kubectl config  
use-context k8s
```

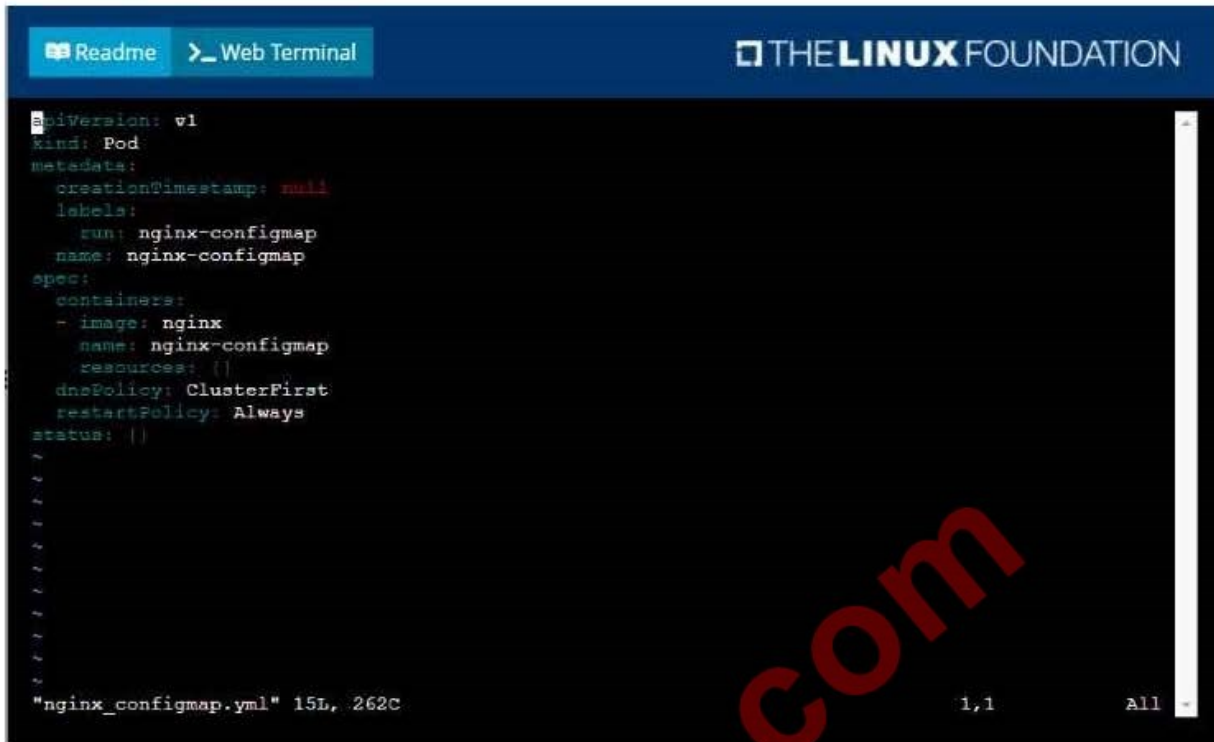
A. Please check explanations

B. Place Holder

Correct Answer: AB

Solution:

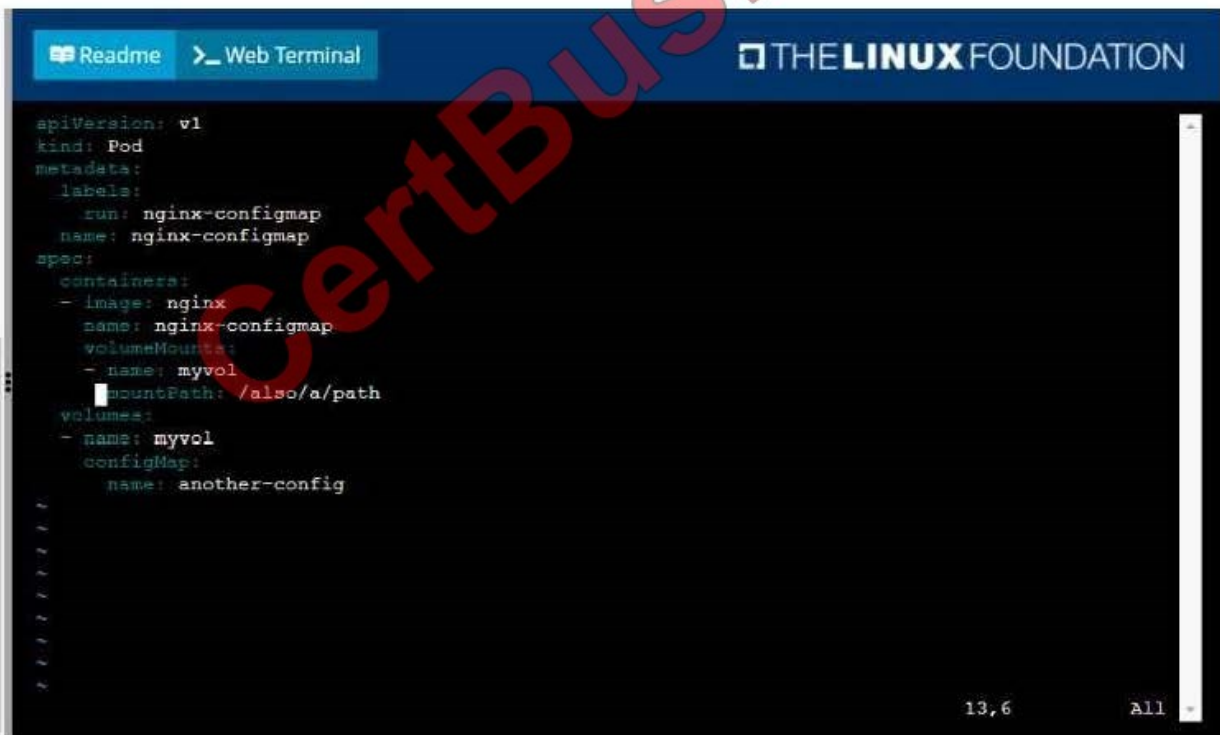
```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3  
configmap/another-config created  
student@node-1:~$ kubectl get configmap  
NAME          DATA   AGE  
another-config 1       5s  
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o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



The screenshot shows a web terminal interface with a dark background. At the top, there are tabs for 'Readme' and 'Web Terminal', and a logo for 'THE LINUX FOUNDATION'. The terminal displays a YAML manifest for a Pod. The manifest includes metadata, labels, and a single container named 'nginx-configmap' using the 'nginx' image. The status bar at the bottom indicates the file is 'nginx_configmap.yml' with 15 lines and 262 characters, and the cursor is at line 1, column 1.

```
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



The screenshot shows a web terminal interface similar to the one above. The terminal displays a YAML manifest for a Pod. This manifest includes a volume mount for a ConfigMap named 'another-config' into the container 'nginx-configmap'. The status bar at the bottom indicates the file is 'nginx_configmap.yml' with 13 lines and 6 characters, and the cursor is at line 13, column 6.

```
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
```

nginx_configmap.yml 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 > nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml ^C
student@node-1:~$ mv nginx_configmap.yaml nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml
student@node-1:~$
```

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

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

Readme

Web Terminal

THE **LINUX** FOUNDATION

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

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

QUESTION 3

Exhibit:



Context It is always useful to look at the resources your applications are consuming in a cluster. Task From the pods running in namespace cpu-stress , write the name only of the pod that is consuming the most CPU to file /opt/KDOBG0301/pod.txt, which has already been created.

A. Please check explanations

B. Place Holder

Correct Answer: AB

Solution:

```

student@node-1:~$ kubectl top pods -n cpu-stress
NAME                CPU (cores)  MEMORY (bytes)
max-load-98b9ae      68m          6Mi
max-load-ab2d3e      21m          6Mi
max-load-hipb9a      45m          6Mi
student@node-1:~$ echo "max-load-98b9ae" > /opt/KDOBG0301/pod.txt

```

QUESTION 4

Exhibit:



Task You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to a node that has those resources available. ?Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of 200m CPU and 1Gi memory for its container The pod should use the nginx image The pod-resources namespace has already been created

A. Please check explanations

B. Place Holder

Correct Answer: AB

Solution:



ReadmeWeb 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, 289C1,1All

Readme Web Terminal THE **LINUX** FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-resources
    name: nginx-resources
    namespace: pod-resources
spec:
  containers:
  - image: nginx
    name: nginx-resources
    resources:
      requests:
        cpu: 200m
        memory: 128Mi
```

-- INSERT -- 15,22 All

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_resources.yml
student@node-1:~$ kubectl create -g nginx_resources.yml
Error: unknown shorthand flag: 'g' in -g
See 'kubectl create --help' for usage.
student@node-1:~$ kubectl create -f nginx_resources.yml
pod/nginx-resources created
student@node-1:~$ kubectl get pods -n pod-re
```

Readme Web Terminal THE **LINUX** FOUNDATION

```
student@node-1:~$ kubectl get pods -n pod-resources
NAME          READY   STATUS    RESTARTS   AGE
nginx-resources 1/1     Running   0           8s
student@node-1:~$
```

QUESTION 5

Exhibit:



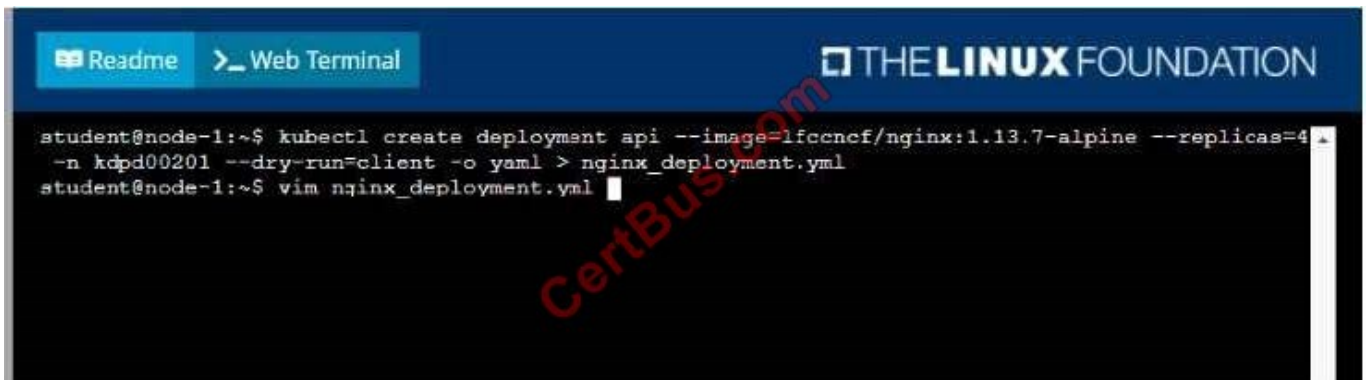
Task Create a new deployment for running nginx with the following parameters; Run the deployment in the kdpd00201 namespace. The namespace has already been created Name the deployment frontend and configure with 4 replicas Configure the pod with a container image of lfcncf/nginx:1.13.7 Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

A. Please check explanations

B. Place Holder

Correct Answer: AB

Solution:



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

```

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

```

Readme
Web Terminal

```

student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create nginx_deployment.yml
Error: must specify one of -f and -k

error: unknown command "nginx_deployment.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_deployment.yml
error: error validating "nginx_deployment.yml": error validating data: ValidationError(Deployment.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignore these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create -f nginx_deployment.yml
deployment.apps/api created
student@node-1:~$ kubectl get pods -n kdpd00201
NAME                                READY   STATUS    RESTARTS   AGE
api-745677f7dc-7hnvm                1/1     Running   0           13s
api-745677f7dc-9q5vp                1/1     Running   0           13s
api-745677f7dc-fd4gk                1/1     Running   0           13s
api-745677f7dc-mbnpc                1/1     Running   0           13s
student@node-1:~$
    
```

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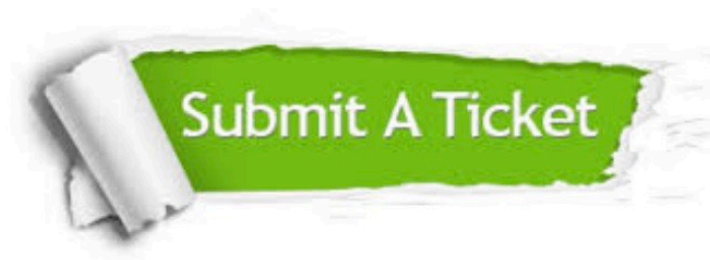
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