CKS$^{\text{Q\&As}}$

Certified Kubernetes Security Specialist (CKS) Exam

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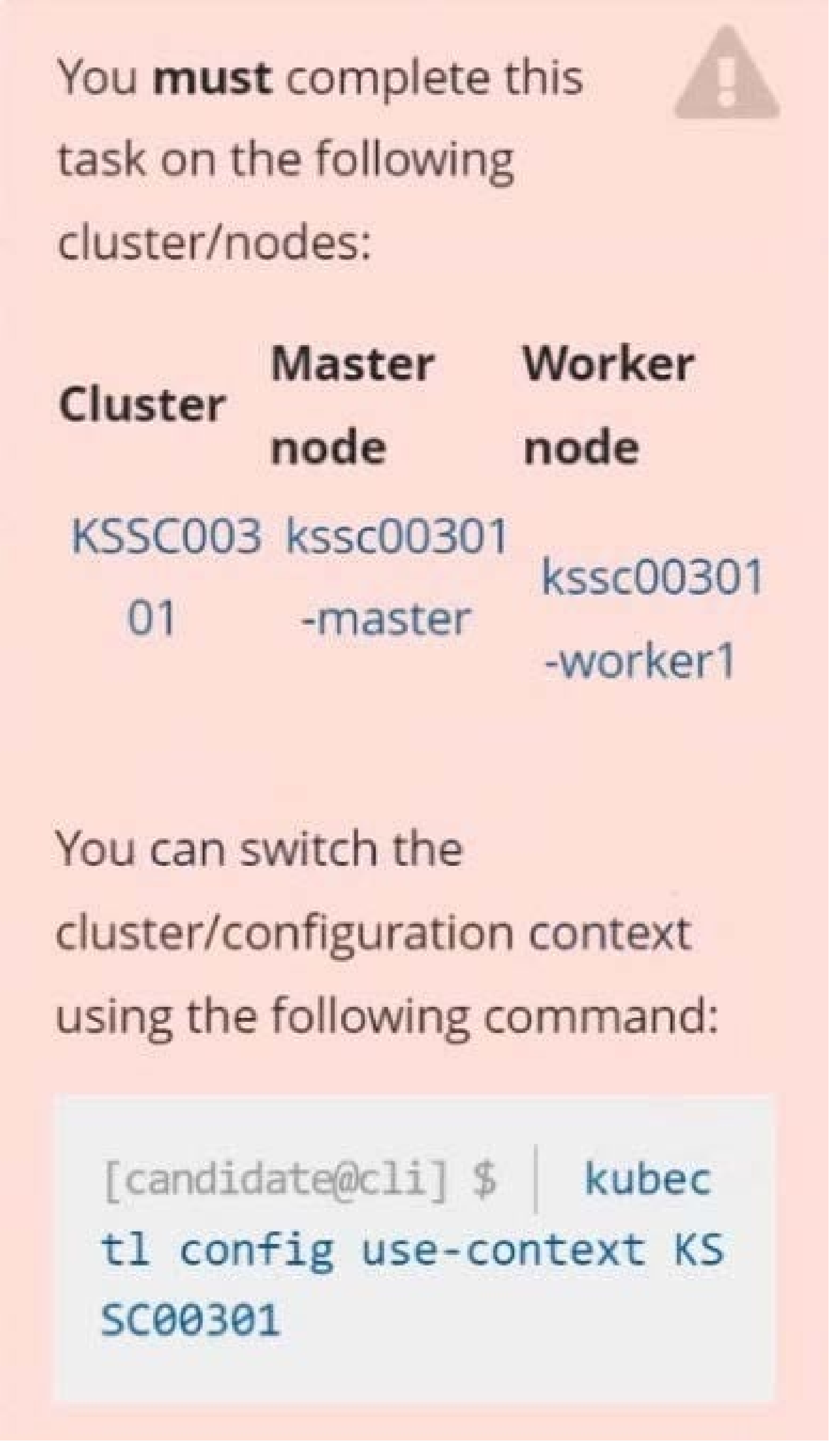
QUESTION 1

Task Analyze and edit the given Dockerfile /home/candidate/KSSC00301/Docker file (based on the ubuntu:16.04 image), fixing two instructions present in the file that are prominent security/best-practice issues. Analyze and edit the given manifest file /home/candidate/KSSC00301/deployment.yaml, fixing two fields present in the file that are prominent security/best-practice issues.

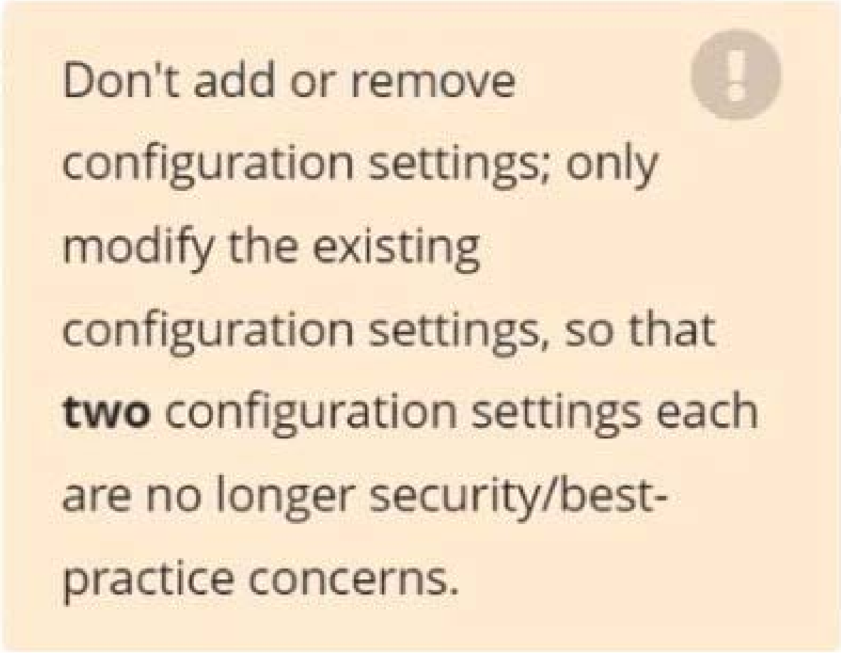


You **must** complete this task on the following cluster/nodes:

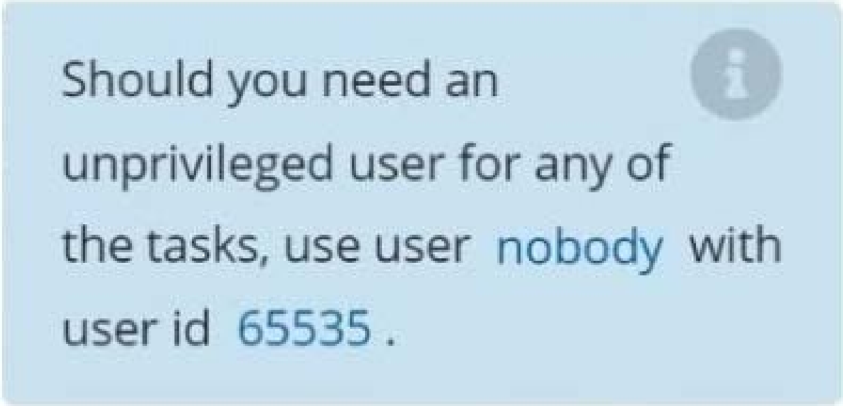
Cluster	Master node	Worker node
KSSC00301	kssc00301-master	kssc00301-worker1

You can switch the cluster/configuration context using the following command:

```
[candidate@cli] $ kubectl config use-context KSSC00301
```



Don't add or remove configuration settings; only modify the existing configuration settings, so that **two** configuration settings each are no longer security/best-practice concerns.



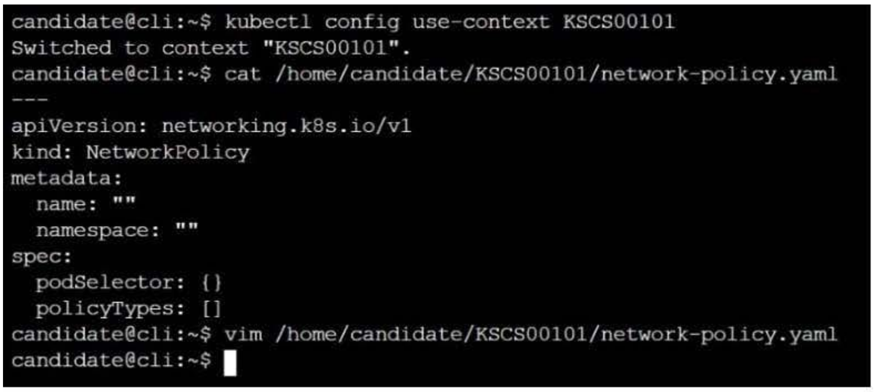
Should you need an unprivileged user for any of the tasks, use user `nobody` with user id `65535`.

A. See explanation below.

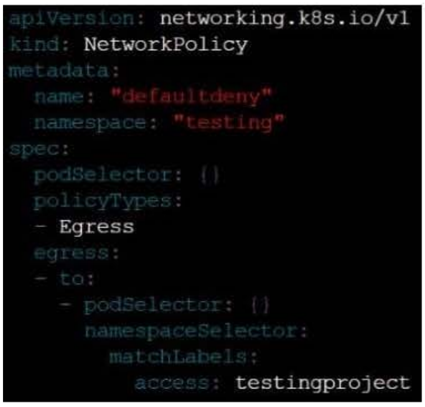
B. PlaceHolder

Correct Answer: A

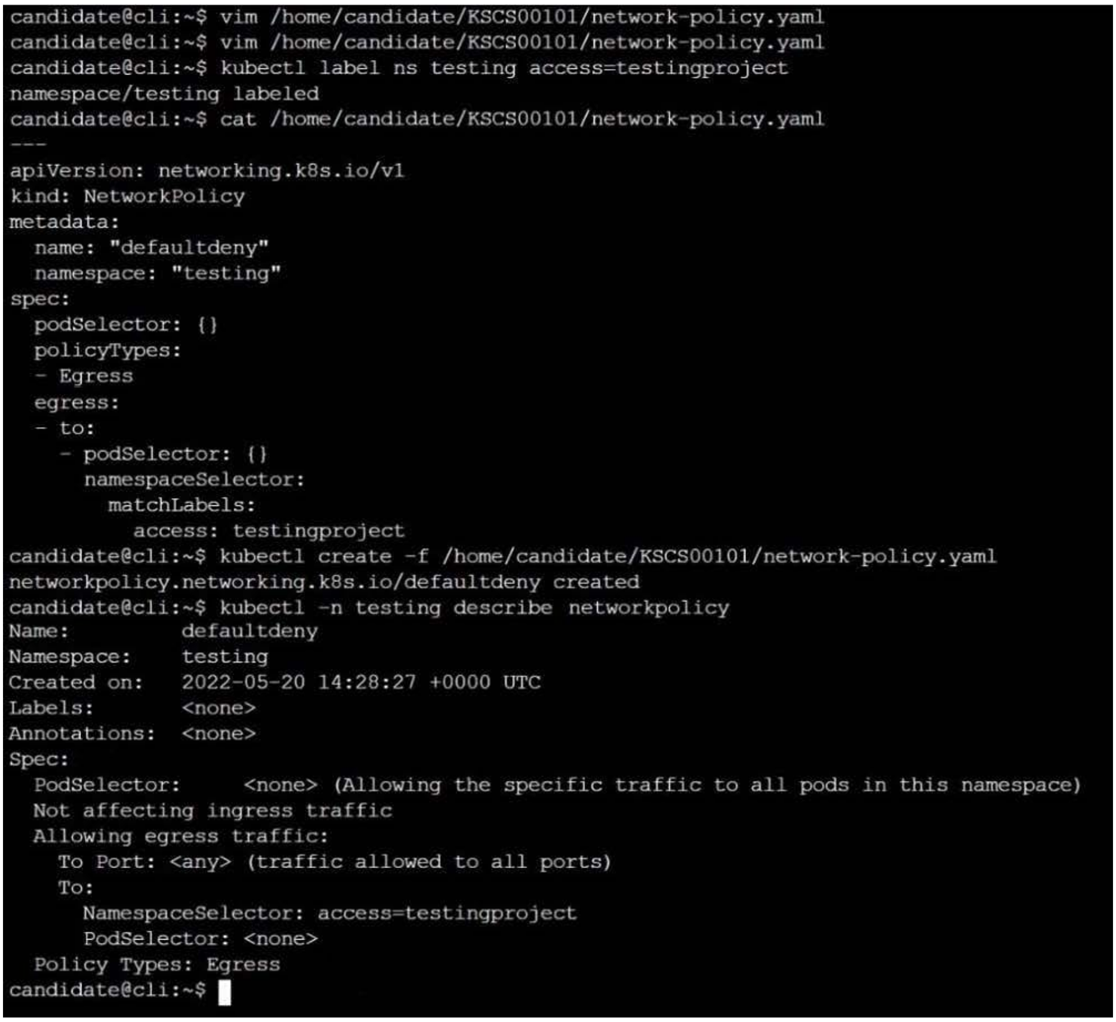
QUESTION 2



```
candidate@cli:~$ kubectl config use-context KSCS00101
Switched to context "KSCS00101".
candidate@cli:~$ cat /home/candidate/KSCS00101/network-policy.yaml
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: ""
  namespace: ""
spec:
  podSelector: {}
  policyTypes: []
candidate@cli:~$ vim /home/candidate/KSCS00101/network-policy.yaml
candidate@cli:~$ 
```



```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: "defaultdeny"
  namespace: "testing"
spec:
  podSelector: {}
  policyTypes:
  - Egress
  egress:
  - to:
    - podSelector: {}
      namespaceSelector:
        matchLabels:
          access: testingproject
```



```
candidate@cli:~$ vim /home/candidate/KSCS00101/network-policy.yaml
candidate@cli:~$ vim /home/candidate/KSCS00101/network-policy.yaml
candidate@cli:~$ kubectl label ns testing access=testingproject
namespace/testing labeled
candidate@cli:~$ cat /home/candidate/KSCS00101/network-policy.yaml
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: "defaultdeny"
  namespace: "testing"
spec:
  podSelector: {}
  policyTypes:
  - Egress
  egress:
  - to:
    - podSelector: {}
      namespaceSelector:
        matchLabels:
          access: testingproject
candidate@cli:~$ kubectl create -f /home/candidate/KSCS00101/network-policy.yaml
networkpolicy.networking.k8s.io/defaultdeny created
candidate@cli:~$ kubectl -n testing describe networkpolicy
Name:         defaultdeny
Namespace:    testing
Created on:   2022-05-20 14:28:27 +0000 UTC
Labels:       <none>
Annotations:  <none>
Spec:
  PodSelector:     <none> (Allowing the specific traffic to all pods in this namespace)
  Not affecting ingress traffic
  Allowing egress traffic:
    To Port: <any> (traffic allowed to all ports)
    To:
      NamespaceSelector: access=testingproject
      PodSelector: <none>
  Policy Types: Egress
candidate@cli:~$ 
```

Create a RuntimeClass named gvisor-rc using the prepared runtime handler named runsc.

Create a Pods of image Nginx in the Namespace server to run on the gVisor runtime class

A. See the explanation below:

B. PlaceHolder

Correct Answer: A

Install the Runtime Class for gVisor

{ # Step 1: Install a RuntimeClass cat