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QUESTION 1

CORRECT TEXT Context

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



Cluster	Master node	Worker node
KSCS001 01	kscs00101 -master	kscs00101 -worker1

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

```
[candidate@cli] $ | kubectl config use-context KSCS00101
```

A default-deny NetworkPolicy avoids to accidentally expose a Pod in a namespace that doesn't have any other NetworkPolicy defined.

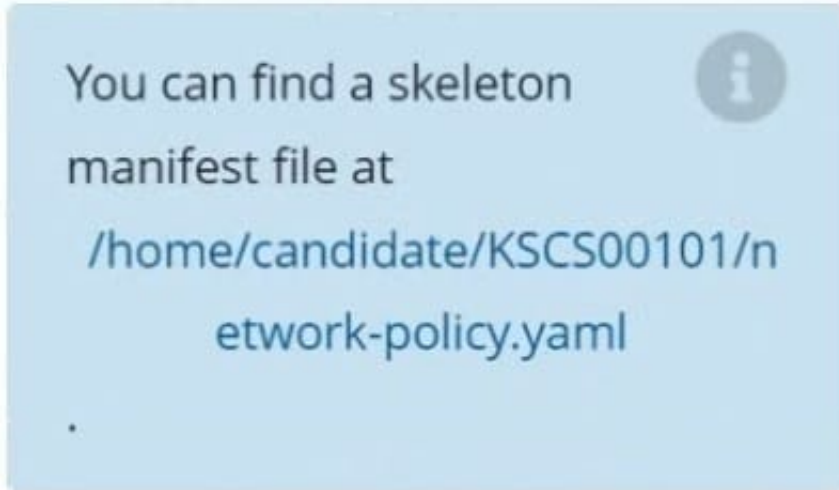


Task

Create a new default-deny NetworkPolicy named defaultdeny in the namespace testing for all traffic of type Egress.

The new NetworkPolicy must deny all Egress traffic in the namespace testing.

Apply the newly created default-deny NetworkPolicy to all Pods running in namespace testing.



A. See explanation below.

B. Placeholder

Correct Answer: A

QUESTION 2

Analyze and edit the given Dockerfile

1.

```
FROM ubuntu:latest
```

2.

```
RUN apt-get update -y
```

3.

```
RUN apt-install nginx -y
```

4.

```
COPY entrypoint.sh /
```

5.



ENTRYPOINT ["/entrypoint.sh"]

6.

USER ROOT

Fixing two instructions present in the file being prominent security best practice issues

Analyze and edit the deployment manifest file

1.

apiVersion: v1

2.

kind: Pod

3.

metadata:

4.

name: security-context-demo-2

5.

spec:

6.

securityContext:

7.

runAsUser: 1000

8.

containers:

9.

- name: sec-ctx-demo-2 10.image: gcr.io/google-samples/node-hello:1.0 11.securityContext: 12.runAsUser: 0
13.privileged: True 14.allowPrivilegeEscalation: false

Fixing two fields present in the file being prominent security best practice issues

Don't add or remove configuration settings; only modify the existing configuration settings

Whenever you need an unprivileged user for any of the tasks, use user test-user with the user id 5487

A. See the explanation below:

B. Placeholder



Correct Answer: A

```
FROM debian:latest MAINTAINER k@bogotobogo.com
```

```
# 1 - RUN RUN apt-get update andand DEBIAN_FRONTEND=noninteractive apt-get install -yq apt-utils RUN  
DEBIAN_FRONTEND=noninteractive apt-get install -yq htop RUN apt-get clean
```

```
# 2 - CMD #CMD ["htop"] #CMD ["ls", "-l"]
```

```
# 3 - WORKDIR and ENV WORKDIR /root ENV DZ version1 $ docker image build -t bogodevops/demo . Sending build  
context to Docker daemon 3.072kB
```

```
Step 1/7 : FROM debian:latest ---> be2868bebaba
```

```
Step 2/7 : MAINTAINER k@bogotobogo.com ---> Using cache ---> e2eef476b3fd
```

```
Step 3/7 : RUN apt-get update andand DEBIAN_FRONTEND=noninteractive apt-get install -yq apt-utils ---> Using  
cache ---> 32fd044c1356
```

```
Step 4/7 : RUN DEBIAN_FRONTEND=noninteractive apt-get install -yq htop ---> Using cache ---> 0a5b514a209e
```

```
Step 5/7 : RUN apt-get clean ---> Using cache ---> 5d1578a47c17
```

```
Step 6/7 : WORKDIR /root ---> Using cache ---> 6b1c70e87675
```

```
Step 7/7 : ENV DZ version1 ---> Using cache ---> cd195168c5c7 Successfully built cd195168c5c7 Successfully tagged  
bogodevops/demo:latest
```

QUESTION 3

Service is running on port 389 inside the system, find the process-id of the process, and stores the names of all the open-files inside the /candidate/KH77539/files.txt, and also delete the binary.

A. See explanation below.

B. Placeholder

Correct Answer: A

```
root# netstat -ltnup
```

Active Internet connections (only servers)

```
Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name
```

```
tcp 0 0 127.0.0.1:17600 0.0.0.0:* LISTEN 1293/dropbox
```

```
tcp 0 0 127.0.0.1:17603 0.0.0.0:* LISTEN 1293/dropbox
```

```
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN 575/sshd
```

```
tcp 0 0 127.0.0.1:9393 0.0.0.0:* LISTEN 900/perl
```

```
tcp 0 0 :::80 :::* LISTEN 9583/docker-proxy
```



```
tcp 0 0 :::443 :::* LISTEN 9571/docker-proxy
```

```
udp 0 0 0.0.0.0:68 0.0.0.0:* 8822/dhcpd
```

```
root# netstat -ltnup | grep \':22\'
```

```
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN 575/sshd
```

The ss command is the replacement of the netstat command.

Now let's see how to use the ss command to see which process is listening on port 22:

```
root# ss -ltnup \':sport = :22\'
```

```
Netid State Recv-Q Send-Q Local Address:Port Peer Address:Port
```

```
tcp LISTEN 0 128 0.0.0.0:22 0.0.0.0:* users:(\"sshd\",pid=575,fd=3))
```

QUESTION 4

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

```
[desk@cli] $ kubectl config use-context dev
```

A default-deny NetworkPolicy avoid to accidentally expose a Pod in a namespace that doesn't have any other NetworkPolicy defined.

Task: Create a new default-deny NetworkPolicy named deny-network in the namespace test for all traffic of type Ingress + Egress

The new NetworkPolicy must deny all Ingress + Egress traffic in the namespace test.

Apply the newly created default-deny NetworkPolicy to all Pods running in namespace test.

You can find a skeleton manifests file at /home/cert_masters/network-policy.yaml

A. See the explanation below

B. Placeholder

Correct Answer: A

```
master1 $ k get pods -n test --show-labels uk.co.certification.simulator.questionpool.PList@132b47c0 $ vim netpol.yaml
uk.co.certification.simulator.questionpool.PList@132b4af0 master1 $ k apply -f netpol.yaml
```

```
controlplane $ k get pods -n test --show-labels NAME READY STATUS RESTARTS AGE LABELS test-pod 1/1
Running 0 34s role=test,run=test-pod testing 1/1 Running 0 17d run=testing master1 $ vim netpol1.yaml apiVersion:
networking.k8s.io/v1 kind: NetworkPolicy metadata: name: deny-network namespace: test spec: podSelector: {}
policyTypes:
```

```
-Ingress
```

```
-Egress
```




QUESTION 5

```
candidate@cli:~$ kubectl config use-context KSSC00401
Switched to context "KSSC00401".
candidate@cli:~$ ssh kssc00401-master
Warning: Permanently added '10.240.86.231' (ECDSA) to the list of known hosts.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

root@kssc00401-master:~# kubectl get pods -n naboo
NAME          READY   STATUS    RESTARTS   AGE
c-3po         1/1     Running   0           6h48m
chewbacca    1/1     Running   0           6h48m
jawas        1/1     Running   0           6h48m
qui-gon-jinn 1/1     Running   0           6h48m
root@kssc00401-master:~# kubectl get pods -n naboo -o name
pod/c-3po
pod/chewbacca
pod/jawas
pod/qui-gon-jinn
root@kssc00401-master:~# for i in $(kubectl get pods -n naboo -o name)
> do
> kubectl get ${i} -o yaml | grep -i image
> done
Error from server (NotFound): pods "c-3po" not found
Error from server (NotFound): pods "chewbacca" not found
Error from server (NotFound): pods "jawas" not found
Error from server (NotFound): pods "qui-gon-jinn" not found
root@kssc00401-master:~# for i in $(kubectl get pods -n naboo -o name); do kubectl -n naboo
get ${i} -o yaml | grep -i image ; done
  image: centos:centos7.9.2009
  imagePullPolicy: Never
  image: centos:centos7.9.2009
  imageID: docker-pullable://centos@sha256:c73f515d06b0fa07bb18d8202035e739a494ce760aa7312
9f60f4bf2bd22b407
  image: photon:3.0
  imagePullPolicy: Never
  image: photon:3.0
  imageID: docker-pullable://photon@sha256:c48d61f0f3ad19215b75e2087cfbe95d7321abb454e4295
a0e6c38f563ece622
  image: alpine:3.7
  imagePullPolicy: Never
  image: alpine:3.7
  imageID: docker-pullable://alpine@sha256:8421d9a84432575381bfabd248f1eb56f3aa21d9d7cd251
1583c68c9b7511d10
  image: amazonlinux:2
  imagePullPolicy: Never
  image: amazonlinux:2
  imageID: docker-pullable://amazonlinux@sha256:246ef631c75ea83005889621119fd5cc9cbb5500e1
93707c38b6c060d597a146
root@kssc00401-master:~# trivy image centos:centos7.9.2009
2022-05-20T15:39:51.733Z          INFO    Need to update DB
2022-05-20T15:39:51.733Z          INFO    Downloading DB...
27.97 MiB / 27.97 MiB [-----] 100.00% 27.43 MiB p/s 1s
```



```
root@kssc00401-master:~# for i in $(kubectl get pods -n naboo -o name); do kubectl -n naboo
get ${i} -o yaml | grep -i image ; done
  image: centos:centos7.9.2009
  imagePullPolicy: Never
  image: centos:centos7.9.2009
  imageID: docker-pullable://centos@sha256:c73f515d06b0fa07bb18d8202035e739a494ce760aa7312
9f60f4bf2bd22b407
  image: photon:3.0
  imagePullPolicy: Never
  image: photon:3.0
  imageID: docker-pullable://photon@sha256:c48d61f0f3ad19215b75e2087cfbe95d7321abb454e4295
a0e6c38f563ece622
  image: alpine:3.7
  imagePullPolicy: Never
  image: alpine:3.7
  imageID: docker-pullable://alpine@sha256:8421d9a84432575381bfabd248f1eb56f3aa21d9d7cd251
1583c68c9b7511d10
  image: amazonlinux:2
  imagePullPolicy: Never
  image: amazonlinux:2
  imageID: docker-pullable://amazonlinux@sha256:246ef631c75ea83005889621119fd5cc9cbb5500e1
93707c38b6c060d597a146
root@kssc00401-master:~# trivy image photon:3.0
2022-05-20T15:40:18.003Z      INFO    Detected OS: photon
2022-05-20T15:40:18.003Z      INFO    Detecting Photon Linux vulnerabilities...
2022-05-20T15:40:18.005Z      INFO    Number of language-specific files: 0

photon:3.0 (photon 3.0)
=====
Total: 0 (UNKNOWN: 0, LOW: 0, MEDIUM: 0, HIGH: 0, CRITICAL: 0)
```

```
root@kssc00401-master:~# kubectl get pods -n naboo -o name
pod/c-3po
pod/chewbacca
pod/jawas
pod/qui-gon-jinn
root@kssc00401-master:~# kubectl -n naboo pod/c-3po -o yaml | grep image
Error: flags cannot be placed before plugin name: -n
root@kssc00401-master:~# kubectl -n naboo get pod/c-3po -o yaml | grep image
  image: centos:centos7.9.2009
  imagePullPolicy: Never
  image: centos:centos7.9.2009
  imageID: docker-pullable://centos@sha256:c73f515d06b0fa07bb18d8202035e739a494ce760aa7312
9f60f4bf2bd22b407
root@kssc00401-master:~# kubectl -n naboo delete pod/c-3po
pod "c-3po" deleted
root@kssc00401-master:~# kubectl -n naboo delete pod/jawas
pod "jawas" deleted
```

```
pod "jawas" deleted
root@kssc00401-master:~# history
 1 kubectl get pods -n naboo
 2 kubectl get pods -n naboo -o name
 3 for i in $(kubectl get pods -n naboo -o name); do kubectl get ${i} -o yaml | grep -i
image ; done
 4 for i in $(kubectl get pods -n naboo -o name); do kubectl -n naboo get ${i} -o yaml |
grep -i image ; done
 5 trivy image centos:centos7.9.2009
 6 for i in $(kubectl get pods -n naboo -o name); do kubectl -n naboo get ${i} -o yaml |
grep -i image ; done
 7 trivy image photon:3.0
 8 for i in $(kubectl get pods -n naboo -o name); do kubectl -n naboo get ${i} -o yaml |
grep -i image ; done
 9 trivy image alpine:3.7
10 for i in $(kubectl get pods -n naboo -o name); do kubectl -n naboo get ${i} -o yaml |
grep -i image ; done
11 trivy image amazonlinux:2
12 kubectl get pods -n naboo -o name
13 kubectl -n naboo pod/c-3po -o yaml | grep image
14 kubectl -n naboo get pod/c-3po -o yaml | grep image
15 kubectl -n naboo delete pod/c-3po
16 kubectl -n naboo delete pod/jawas
17 history
root@kssc00401-master:~# █
```




AppArmor is enabled on the cluster's worker node. An AppArmor profile is prepared, but not enforced yet.



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



Cluster	Master node	Worker node
KSSH00401	kssh00401 -master	kssh00401 -worker1

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

```
[candidate@cli] $ | kubectl config use-context KSSH00401
```

You may use your browser to open **one additional tab** to access the AppArmor documentation.





Task

On the cluster's worker node, enforce the prepared AppArmor profile located at `/etc/apparmor.d/nginx_apparmor`.

Edit the prepared manifest file located at `/home/candidate/KSSH00401/nginx-pod.yaml` to apply the AppArmor profile.

Finally, apply the manifest file and create the Pod specified in it.

A. See the explanation below

B. Placeholder

Correct Answer: A

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