

CKS^{Q&As}

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QUESTION 1

Context:

Cluster: prod

Master node: master1

Worker node: worker1

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

[desk@cli] \$ kubectl config use-context prod

Task:

Analyse and edit the given Dockerfile (based on the ubuntu:18:04 image)

/home/cert_masters/Dockerfile fixing two instructions present in the file being prominent security/best-practice issues.

Analyse and edit the given manifest file

/home/cert_masters/mydeployment.yaml fixing two fields present in the file being prominent security/best-practice issues.

Note: 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 the explanation below
- B. PlaceHolder

Correct Answer: A

1. For Dockerfile: Fix the image version and user name in Dockerfile2. For mydeployment.yaml: Fix security contexts

Explanation[desk@cli] \$ vim /home/cert_masters/Dockerfile FROM ubuntu:latest # Remove this FROM ubuntu:18.04 # Add this USER root # Remove this USER nobody # Add this RUN apt get install -y lsof=4.72 wget=1.17.1 nginx=4.2 ENV ENVIRONMENT=testing USER root # Remove this USER nobody # Add this CMD ["nginx -d"]

```
FROM ubuntu:latest # Remove this
FROM ubuntu:18.04 # Add this
USER root # Remove this
USER nobody # Add this
RUN apt get install -y lsof=4.72 wget=1.17.1 nginx=4.2
ENV ENVIRONMENT=testing
USER root # Remove this
USER nobody # Add this
CMD ["nginx -d"]
```



Text

[desk@cli] \$ vim /home/cert_masters/mydeployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: kafka
name: kafka
spec:
replicas: 1
selector:
matchLabels:
app: kafka
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
app: kafka
spec:
containers:
-image: bitnami/kafka
name: kafka
volumeMounts:
-
name: kafka-vol
mountPath: /var/lib/kafka
securityContext:

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{"capabilities":{"add":["NET_ADMIN"],"drop":["all"]},"privileged":

True, "readOnlyRootFilesystem": False, "runAsUser": 65535} # Delete This {"capabilities": {"add": ["NET_ADMIN"], "drop": ["all"]}, "privileged":

False, "readOnlyRootFilesystem": True, "runAsUser": 65535} # Add This resources: {}

volumes:

-

name: kafka-vol

emptyDir: {}

status: {}

Pictorial View:[desk@cli] \$ vim /home/cert_masters/mydeployment.yaml

QUESTION 2

Create a new NetworkPolicy named deny-all in the namespace testing which denies all traffic of type ingress and egress traffic

A. See the explanation below:

B. PlaceHolder

Correct Answer: A

You can create a "default" isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any ingress traffic to those pods.

apiVersion: networking.k8s.io/v1

kind: NetworkPolicy



metadata:
name: default-deny-ingress
spec:
podSelector: {}
policyTypes:
-Ingress
You can create a "default" egress isolation policy for a namespace by creating a NetworkPolicy that selects all pods does not allow any egress traffic from those pods.
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-all-egress
spec:
podSelector: {}
egress:
-{} policyTypes:
-Egress
Default deny all ingress and all egress traffic
You can create a "default" policy for a namespace which prevents all ingress AND egress traffic by creating the following NetworkPolicy in that namespace.
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-all
spec:
podSelector: {}
policyTypes:
-Ingress
-Egress

This ensures that even pods that aren\\'t selected by any other NetworkPolicy will not be allowed ingress or egress

but



traffic.

QUESTION 3

Given an existing Pod named nginx-pod running in the namespace test-system, fetch the service-account-name used and put the content in /candidate/KSC00124.txt

Create a new Role named dev-test-role in the namespace test-system, which can perform update operations, on resources of type namespaces.

Create a new RoleBinding named dev-test-role-binding, which binds the newly created Role to the Pod\\'s ServiceAccount (found in the Nginx pod running in namespace test- system).

A. See explanation below.

B. PlaceHolder

Correct Answer: A

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```
candidate@cli:~$ kubectl config use-context KSCH00201
Switched to context "KSCH00201".
candidate@cli:~$ kubectl get pods -n security
         READY STATUS
                           RESTARTS AGE
web-pod
         1/1
                 Running
                                       6h9m
candidate@cli:~$ kubectl get deployments.apps -n security
No resources found in security namespace.
candidate@cli:~$ kubectl describe rolebindings.rbac.authorization.k8s.io -n security
Name:
             dev-role
Labels:
             <none>
Annotations: <none>
Role:
 Kind: Role
Name: dev-role
Subjects:
  Kind
                  Name
                            Namespace
  ServiceAccount sa-dev-1
candidate@cli:~$ kubectl describe role dev-role -n security
             dev-role
Labels:
              <none>
Annotations: <none>
PolicyRule:
  Resources Non-Resource URLs Resource Names Verbs
                                                [*]
candidate@cli:~$ kubectl edit role/dev-role -n security
```

```
uid: b4c9ddd6-2729-43bd-8fbd-b2d227f4c4cd
rules:
- apiGroups:
- ""
resources:
- services
verbs:
- watch
```

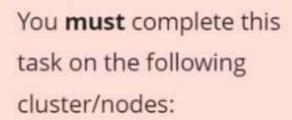
```
candidate@cli:~$ kubectl describe role dev-role -n security
Name:
Labels:
             <none>
Annotations: <none>
PolicyRule:
 Resources Non-Resource URLs Resource Names Verbs
                                               [*]
candidate@cli:~$ kubectl edit role/dev-role -n security
role.rbac.authorization.k8s.io/dev-role edited
candidate@cli:~$ kubectl describe role dev-role -n security
Name:
             dev-role
Labels:
             <none>
Annotations: <none>
PolicyRule:
 Resources Non-Resource URLs Resource Names Verbs
                                               [watch]
candidate@cli:~$ kubectl get pods -n security
         READY STATUS RESTARTS
                                      AGE
                 Running
         1/1
                                      6h12m
candidate@cli:~$ kubectl get pods/web-pod -n security -o yaml | grep serviceAccount
 serviceAccount: sa-dev-1
           countName: sa-dev-1
                  untToken:
candidate@cli:~$ kubectl create role role-2 --verb=update --resource=namespaces -n security
role.rbac.authorization.k8s.io/role-2 created
candidate@cli:~$ kubectl create rolebinding role-2-binding --role
        --role=
candidate@cli:~$ kubectl create rolebinding role-2-binding --role=role-2 --serviceaccount=se
curity:sa-dev-1 -n security
rolebinding.rbac.authorization.k8s.io/role-2-binding created
candidate@cli:~$
```



QUESTION 4

CORRECT TEXT

Task





Cluster Master Worker node node

KSSH00 kssh00301 301 -master -worker1

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

[candidate@cli] \$ kubec
tl config use-context KS
SH00301

Create a NetworkPolicy named pod-access to restrict access to Pod users-service running in namespace dev-team.

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Only allow the following Pods to connect to Pod users-service:

1.

Pods in the namespace qa

2.

Pods with label environment: testing, in any namespace

Make sure to apply the NetworkPolicy.



You can find a skeleton
manifest file at
/home/candidate/KSSH00301/n
etwork-policy.yaml

- A. See explanation below.
- B. PlaceHolder

Correct Answer: A Explanation

Explanation/Reference:

```
candidate@cli:~$ kubectl config use-context KSSH00301
Switched to context "KSSH00301".
candidate@cli:~$
candidate@cli:~$
candidate@cli:~$ kubectl get ns dev-team --show-labels
NAME
           STATUS
                    AGE
                             LABELS
dev-team
           Active
                    6h39m
                            environment=dev, kubernetes.io/metadata.name=dev-team
candidate@cli:~$ kubectl get pods -n dev-team --show-labels
NAME
                READY
                        STATUS
                                   RESTARTS
                                              AGE
                                                      LABELS
users-service
                1/1
                        Running
                                              6h40m
                                                      environment=dev
candidate@cli:~$ ls
KSCH00301 KSMV00102
                      KSSC00301
                                 KSSH00401
                                                test-secret-pod.yaml
KSCS00101
           KSMV00301
                      KSSH00301
                                  password.txt
                                                username.txt
candidate@cli:~$ vim np.yaml
```

- A. See explanation below.
- B. PlaceHolder

Correct Answer: A

QUESTION 5

Enable audit logs in the cluster, To Do so, enable the log backend, and ensure that	
1.	
logs are stored at /var/log/kubernetes/kubernetes-logs.txt.	
2.	
Log files are retained for 5 days.	
3.	
at maximum, a number of 10 old audit logs files are retained. Edit and extend the basic policy to log:	
1.	
Cronjobs changes at RequestResponse	
2.	
Log the request body of deployments changes in the namespace kube-system.	
3.	
Log all other resources in core and extensions at the Request level.	
4.	
Don\\'t log watch requests by the "system:kube-proxy" on endpoints or	
A. See explanation below.	
B. PlaceHolder	
Correct Answer: A	
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