

# CKS<sup>Q&As</sup>

Certified Kubernetes Security Specialist (CKS) Exam

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## QUESTION 1

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 2

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

Cluster: trace Master node: master Worker node: worker1

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

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

Given: You may use Sysdig or Falco documentation.

Task:

Use detection tools to detect anomalies like processes spawning and executing something weird frequently in the single container belonging to Pod tomcat.

Two tools are available to use:

1.  
falco
2.  
sysdig

Tools are pre-installed on the worker1 node only.

Analyse the container's behaviour for at least 40 seconds, using filters that detect newly spawning and executing processes.

Store an incident file at /home/cert\_masters/report, in the following format:

[timestamp],[uid],[processName]

Note: Make sure to store incident file on the cluster's worker node, don't move it to master node.

- A. See the explanation below
- B. Placeholder

Correct Answer: A

```
$vim /etc/falco/falco_rules.local.yaml uk.co.certification.simulator.questionpool.PList@120e24d0 $kill -1
Explanation[desk@cli] $ ssh node01[node01@cli] $ vim /etc/falco/falco_rules.yamlsearch for Container Drift Detected
and paste in falco_rules.local.yaml[node01@cli] $ vim /etc/falco/falco_rules.local.yaml
```

```
-rule: Container Drift Detected (open+create) desc: New executable created in a container due to open+create
condition: > evt.type in (open,openat,creat) and evt.is_open_exec=true and container and not runc_writing_exec_fifo
and not runc_writing_var_lib_docker and not user_known_container_drift_activities and evt.rawres>=0 output: >
%evt.time,%user.uid,%proc.name # Add this/Refer falco documentation priority: ERROR [node01@cli] $ vim
/etc/falco/falco.yaml
```

---

### QUESTION 3

Create a Pod name Nginx-pod inside the namespace testing, Create a service for the Nginx-pod named nginx-svc, using the ingress of your choice, run the ingress on tls, secure port.

- A. See explanation below.
- B. Placeholder

Correct Answer: A

```
$ kubectl get ing -n NAME HOSTS ADDRESS PORTS AGE cafe-ingress cafe.com 10.0.2.15 80 25s
```

```
$ kubectl describe ing -n Name: cafe-ingress Namespace: default Address: 10.0.2.15 Default backend: default-http-backend:80 (172.17.0.5:8080) Rules: Host Path Backends
```

```
cafe.com
```

```
/tea tea-svc:80 ()
```

```
/coffee coffee-svc:80 ()
```

Annotations:

kubectl.kubernetes.io/last-applied-configuration:

```
{"apiVersion":"networking.k8s.io/v1","kind":"Ingress","metadata":{"annotations":{},"name":"cafe-ingress","namespace":"default","selfLink":"/apis/networking/v1/namespaces/default/ingresses/cafe-ingress"},"spec":{"rules":
```

```
[{"host":"cafe.com","http":{"paths":[{"backend":{"serviceName":"tea-svc","servicePort":80},"path":"/tea"}, {"backend":{"serviceName":"coffee-svc","servicePort":80},"path":"/coffee"}]}}, {"status":{"loadBalancer":{"ingress":
```

```
[{"ip":"169.48.142.110"}]}}
```

Events:

Type Reason Age From Message

```
Normal CREATE 1m ingress-nginx-controller Ingress default/cafe-ingress Normal UPDATE 58s ingress-nginx-controller Ingress default/cafe-ingress $ kubectl get pods -n NAME READY STATUS RESTARTS AGE ingress-nginx-controller-67956bf89d-fv58j 1/1 Running 0 1m
```

```
$ kubectl logs -n ingress-nginx-controller-67956bf89d-fv58j
```

```
----- NGINX Ingress controller Release: 0.14.0  
Build: git-734361d Repository: https://github.com/kubernetes/ingress-nginx
```

---

#### QUESTION 4

The kubeadm-created cluster's Kubernetes API server was, for testing purposes, temporarily configured to allow unauthenticated and unauthorized access granting the anonymous user cluster-admin access.

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



Cluster	Master node	Worker node
KSCH00101	ksch00101-master	ksch00101-worker1

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

```
[candidate@cli] $ | kubectl config use-context KSCH00101
```

#### Task

Reconfigure the cluster's Kubernetes API server to ensure that only authenticated and authorized REST requests are allowed.

Use authorization mode Node,RBAC and admission controller NodeRestriction.

Cleaning up, remove the ClusterRoleBinding for user system:anonymous.

All `kubectl` configuration contexts/files were also configured to use the unauthenticated and unauthorized access. You don't have to change that, but be aware that `kubectl`'s configuration will stop working, once you've completed securing the cluster.

You can use the cluster's original `kubectl` configuration file `/etc/kubernetes/admin.conf`, located on the cluster's master node, to ensure that authenticated and authorized requests are still allowed.

A. See explanation below.

B. Placeholder

Correct Answer: A

```
candidate@cli:~$ kubectl config use-context KSCH00101
Switched to context "KSCH00101".
candidate@cli:~$ ssh ksch00101-master
Warning: Permanently added '10.240.86.190' (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@ksch00101-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
```



```
apiVersion: v1
kind: Pod
metadata:
  annotations:
    kubeadm.kubernetes.io/kube-apiserver.advertise-address.endpoint: 10.240.86.190:6443
  creationTimestamp: null
  labels:
    component: kube-apiserver
    tier: control-plane
  name: kube-apiserver
  namespace: kube-system
spec:
  containers:
  - command:
    - kube-apiserver
    - --advertise-address=10.240.86.190
    - --allow-privileged=true
    - --authorization-mode=Node,RBAC
    - --client-ca-file=/etc/kubernetes/pki/ca.crt
    - --enable-admission-plugins=AlwaysAdmit
    - --enable-bootstrap-token-auth=true
    - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
    - --etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
    - --etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key
    - /etc/kubernetes/manifests/kube-apiserver.yaml" 128L, 4343C
```

1,1 Top

```
root@ksch00101-master:~# cat /etc/kubernetes/admin.conf
apiVersion: v1
clusters:
- cluster:
  certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUJzQ0FURSU0tLS0tck1JSUMVakNDQWVhZ0F3SUJBZ01COURBTknaFoa21H0KcWQkFRcoZBREFFWVJNd0VRWURWUVEFRkdjcmRKSsmwY201bGRlbnp0JyRFRUeU1ESXho
  aKf3RlRVRuS0R1bHhE15RURoESESX0X0YF4Y4P1ZA-d0ZURVRWQ3UjRFRWpbeE1LlTmMaVp/SnVawF0s13p0Q0FFS4E
  UYK529aSmZyS05UUVUQ1FBRGdARVBRREMDpVQ24dRUJBT1qwm9LAIdYVGNMATTvNEZTKsF4H2B3UdU0Q8T
  N01qPzR21lM2ttnGL1alpeM0tZc3Y1BdUqN0UyQ2TYc0MKUhh1LNL2aBDM21la2k5V3hOSHSEtM00EtXUVE3VYBZL
  hm2RdVxdl1A1Wx4D2Kord1JmWCGTQXoLzRNOVhVlKpkd125VWRKSiTpeFFSVJ21aHFBZHR0M3FtOfVcW4UE5JTI1E
  OeC3WWhRng95R8H3Sf0KMS8raXVKsJN0M16CnNTSdAtYk1sWENSBcydFVOM2RSdCzSnRtS1J52LnMkXyM3FWS1Uy
  QmJRb1BmK01wbV1XFGcmzvcWavwvKY1BKf3R0vazTMIJLTKhVUUYdVJTa3Zc2Jrc1hUW8MCMKFNH2rYnFNH1q
  KzNkTUL1Syt5V3zdtUT1BYUVPMaPlKdR4U0d1Tp3OUe3TJzZeTFQ0F3RUFYU5aTUzjdORnWURWUjBQqVfL0JBUURB
  Z0T1UE4REXWVRFd0VC1930U2QU1CQW44dohRURWUjBPQk3ZRUZEcU1wLzdzYbz2aNKJNV1VEK2W3Bf2PcGpB0W1N
  Q1VQ0FVZVEVU0BRTUF5Q0Ctdf2dVz5Ym1M6PpYTKdSUUVLK29aSwH2Y05BUUVMQ1FBRGdARU0BS1NwM9wNggyYVpV
  eGz1Ruz4BocxAV1HUF1m1hh0cN0Wz21TtY3RnANh4Jub5eSXC0MNHU0RnWV1y0Wya1BdeFV0z1Ysw0U1FmVpV
  c4R8kKfSP3WVp6Smz3Y0dyS2E3R1cZwVnyUUVBRWYd2Z3R0KCM3aB8zVcwhJcm1SdXN1bm5K5S1YmVOM0R
  N1NhbCZTJ1JdVf3d1VfR1S10Jsl1ZWRmZnRkOGF0Z0pSYfZGmlVcDRPKLJTKFRNTB4Z3Vagcn1WFRmWpVdmJq
  Zj5yO1hVXk3QkxhDdR2E9QVWVU051USt1VwMcdpV22V0VNHjclVae24kcThPnBbJv3T1NkdUvCmzQk9pckxS
  c2K2a1N01hLbcvavqvc1td0dF0xwWkD2Tka1FraT4CSV8JT1N3e1d3c2hbzRnNzBFY0kVA0VPBQcL0S0LUVO
  RCBDRVJUSUJzQ0FURSU0tLS0tCg==
  server: https://10.240.86.190:6443
  name: kubernetes
contexts:
- context:
  cluster: kubernetes
  user: kubernetes-admin
  name: kubernetes-admin@kubernetes
current-context: kubernetes-admin@kubernetes
kind: Config
preferences: {}
users:
- name: kubernetes-admin
  user:
  client-certificate-data: LS0tLS1CRUdJTiBDRVJUSUJzQ0FURSU0tLS0tck1JSURJVEN0Wdtz0F3SUJBZ01C
  cc4QcN84k3ubYsaG4wTh5Y1BUmSx1Tm5VnJ3iSUpXRXVkcXkbEEXC1NVAh1VkyZnk10ZHC1U10T24xk1haadH
  hY2JURVZCM1VWUURabDgzdC5tEfyVXJmY0pQm1LCTZFAvcwYKdJdXRBwQ12XNnhVZGFhGnUk1Mnp1eUVTJE
  Tck5XU0Q0TzZeM013b1Z00VzQ2RXTkV3VGNZRH4dUtd2OQpGcEzK13hiSDUTzkyY1RFD1Iwaz13cFVYd11kdk1jSXN
  MRkYw13F2DADA3U1xbp1OE11SnPq1hCU1ZxbS9wCmNUUS3Sns1k0Wdz2aVJvdFFTCHBONKx4UhhkS2NMQR
  BK240SWKFZEHRHh3TE0d0tMalidRGSaChgRYzB3WhkVXBORG2GUDxURFzVUJabDRQZ3VkdW5QNVDN2Fus3dJRE
  RqUJBB01CQURWRK2NSVqYnNystZTTPwQGM0MTBm3RkW251cXJVS202dHRnZwLX0Md1S1pvmnZyb3RabG9qGFRamF
  0MT2naBwXQz2z2xMSdh1d0LLck1Mz2ncZnFCyU1L0w12m1FWsXyTG00c1CVDFRbGFUJ1JRMdRyo0JZbhdCN1VFBV
  1W1hu03Im22YTC9M2wKCBYTVdVdZJqCvqVh2MdzCwARDNCR0z20FYkYzkh1REXNV0VYXKRZRI4VX05UFFHOD1
  pcFV1OTBk1n13p0M4U2N340Tq1dR39PVTIc2eZU11cVdh093R9pZ2NpUhbV3FhmP1M1C0KaUUR0W5
  ZMy4BEUdCn1n1BaR1lUz01Z4EplbDF001TNEpSR244NKNwCLROcXG6X0R15wMzabFA0XZSRadU3M2Y1J0Z2Z
  FVYckFV1Mx3LRUNwVBNWJz701VVzFBVndJTMJc0pSVNURK120V1xDRYcnZB80FZY3BhdktENnd5mtE0TV1Cq
  SaXVR1NKRzY4RtBvmlpY11paThJemExtKdqdC9JZDUVTCV0Nk1arVg2enVpK0g3d1BSbVd6S8SueNmaU21VOMEF
  RLOR1M21CMW3QJmJHYNkaDN1b2JvRONSSH2mTFXY2LYbUVVM22udV1R1JL22x1TEVD211FQTVUdyxKTEVTV1BESFF
  maanNB0htMdsMndR3jCDU1sSdaYVRN25eb3ZvrmXa1BMRWCMWJ60HJNW1d1eGdmaHNO0QpM20xSUDBDkjdWd1J
  sVTRMThFL1VzRmkxU2dvaWS01ZwMkYzmpLWY1RFE3YU0zctdnV1s4U2p1ZHpoc1hCCKVc1AwwXQ38Q0rbFRM2mh
  aNKNZwTet1Y3b3gven05Ys0U02k0NnWU40VkvZ2fydHBoMfcvS05JS3V4SEoKJ1BxRFRQxhmlObE9FdmEhaKfUaTJ
  ZQkXVn1wERNsMRJTEs4bfcxYkNR3JwYz3U0xRN1hZUV1XaJQ2dTNMppEQ2ZUW1F1RWRQZ2NBbWtPR2ZqWmdPcd
  pdVW10DLzNpRkPpcXV1enRFcmTH1VcJST0hZem16QVJ4Tm02CnZuU61ma00Rk1c3B2MhV0Nk1b1FlQm4BT1Z
  ZFRZM1Fwz33aEsmvKM11eRkXVYJ0ZZ31VRevaVdh1cRy3ZMv3d1ZU1md0Q4MFR1Z3a29RVZM1VBRJXZdKk
  xRFVNmLmHwCt00ChNGQw05MRz1VW4ZMk94RgpJsfZkZ4e1YwVUB6V1RhbMMyEayamho0VRncdzkTcx2N
  Q0U2EzCzwl0cThaV213zd3aW1BR1h1SPJRCK3RkxB0dCQDk3NW8rbhFVZ3hh1pKdy9Ea1RceK5tQreVd6dM8
  1c2E2c6a2Fy0p1bSk2MUNdEVTc3QKcG5HMT1VSTSM13CdRte19LeDJYFRzaTz2zVw1R5W5S5TFSz2TUZ
  rR1daczRmeVhXV2t3Sj21VE11YpYwF13TW5VF1DUGzSFJaTm9XR1bZV3BkETJBOXZCbF1SchZsQVZ0enU21VZQ2w
  5b2ZpC10tLS0tRUS0tLS0tck1JWVRFRFELFWS0tLS0tCg==
root@ksch00101-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
```



```

root@ksch00101-master:~# cat /etc/kubernetes/manifests/kube-apiserver.yaml
---
apiVersion: v1
kind: Pod
metadata:
  name: kube-apiserver
  namespace: kube-system
spec:
  containers:
  - name: kube-apiserver
    image: k8s.gcr.io/kube-apiserver:v1.29.0
    command:
    - kube-apiserver
    - --advertise-address=10.240.86.190
    - --allow-privileged=true
    - --authorization-mode=Always,Webhook
    - --client-ca-file=/etc/kubernetes/pki/ca.crt
    - --enable-bootstrap=true
    - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
    - --etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
    - --etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key
    - --etcd-servers=https://10.240.86.190:2379
    - --kubelet-client-cert=/etc/kubernetes/pki/apiserver-kubelet-client.crt
    - --kubelet-client-key=/etc/kubernetes/pki/apiserver-kubelet-client.key
    - --kubelet-preferred-address-types=Hostname,InternalIP,ExternalIP
    - --proxy-client-keyfile=/etc/kubernetes/pki/proxy/apiserver-client.key
    - --proxy-client-certificate=/etc/kubernetes/pki/proxy/apiserver-client.crt
    - --request-timeout=30s
    - --secure-port=443
    - --tls-cert-file=/etc/kubernetes/pki/apiserver.crt
    - --tls-private-key-file=/etc/kubernetes/pki/apiserver.key
    - --v=1
    volumeMounts:
    - name: kubelet-dir
      mountPath: /var/lib/kubelet
    - name: tls-cert-dir
      mountPath: /etc/kubernetes/pki
    - name: etcd-dir
      mountPath: /etc/kubernetes
    - name: kubeconfig-dir
      mountPath: /etc/kubernetes
  volumes:
  - name: kubelet-dir
    pathType: DirectoryOrCreate
    hostPath: /var/lib/kubelet
  - name: tls-cert-dir
    pathType: DirectoryOrCreate
    hostPath: /etc/kubernetes/pki
  - name: etcd-dir
    pathType: DirectoryOrCreate
    hostPath: /etc/kubernetes
  - name: kubeconfig-dir
    pathType: DirectoryOrCreate
    hostPath: /etc/kubernetes

```

```

root@ksch00101-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
root@ksch00101-master:~# systemctl daemon-reload
root@ksch00101-master:~# systemctl restart kubelet.service
root@ksch00101-master:~# kubectl get nodes
error: You must be logged in to the server (Unauthorized)
root@ksch00101-master:~# exit
logout
Connection to 10.240.86.190 closed.
candidate@cli:~$ kubectl get nodes
NAME                STATUS    ROLES    AGE   VERSION
ksch00101-master    Ready    control-plane,master   93d   v1.23.3
ksch00101-worker1   Ready    <none>    93d   v1.23.3
candidate@cli:~$ kubectl get pod -n kube-system
NAME                                     READY    STATUS    RESTARTS   AGE
coredns-64897985d-7pnhm                 1/1     Running   1 (7h2m ago)   93d
coredns-64897985d-rr7sd                 1/1     Running   1 (7h2m ago)   93d
etcd-ksch00101-master                   1/1     Running   1 (7h2m ago)   93d
kube-apiserver-ksch00101-master          0/1     Running   0           24s
kube-controller-manager-ksch00101-master 1/1     Running   3 (42s ago)    93d
kube-flannel-ds-llktn                   1/1     Running   1 (93d ago)    93d
kube-flannel-ds-q9vnl                    1/1     Running   1 (93d ago)    93d
kube-proxy-2c4ht                         1/1     Running   1 (93d ago)    93d
kube-proxy-pmmbc                         1/1     Running   1 (93d ago)    93d
kube-scheduler-ksch00101-master         1/1     Running   3 (42s ago)    93d
candidate@cli:~$ kubectl get pod -n kube-system
NAME                                     READY    STATUS    RESTARTS   AGE
coredns-64897985d-7pnhm                 1/1     Running   1 (7h2m ago)   93d
coredns-64897985d-rr7sd                 1/1     Running   1 (7h2m ago)   93d
etcd-ksch00101-master                   1/1     Running   1 (7h2m ago)   93d
kube-apiserver-ksch00101-master          0/1     Running   0           30s
kube-controller-manager-ksch00101-master 1/1     Running   3 (48s ago)    93d
kube-flannel-ds-llktn                   1/1     Running   1 (93d ago)    93d
kube-flannel-ds-q9vnl                    1/1     Running   1 (93d ago)    93d
kube-proxy-2c4ht                         1/1     Running   1 (93d ago)    93d
kube-proxy-pmmbc                         1/1     Running   1 (93d ago)    93d
kube-scheduler-ksch00101-master         1/1     Running   3 (48s ago)    93d
candidate@cli:~$ kubectl get clusterrolebindings.rbac.authorization.k8s.io | grep anon
system:anonymo
                                 ClusterRole/cluster-admin
                                 7h1m
candidate@cli:~$ kubectl delete clusterrolebindings.rbac.authorization.k8s.io/system:anonymo
us
clusterrolebinding.rbac.authorization.k8s.io "system:anonymous" deleted

```

## QUESTION 5

Create a new ServiceAccount named backend-sa in the existing namespace default, which has the capability to list the pods inside the namespace default.

Create a new Pod named backend-pod in the namespace default, mount the newly created sa backend-sa to the pod, and Verify that the pod is able to list pods.

Ensure that the Pod is running.

A. See the below:

B. Placeholder

Correct Answer: A

A service account provides an identity for processes that run in a Pod.

When you (a human) access the cluster (for example, using kubectl), you are authenticated by the apiserver as a particular User Account (currently this is usually admin, unless your cluster administrator has customized your cluster). Processes in containers inside pods can also contact the apiserver. When they do, they are authenticated as a particular Service Account (for example, default).

When you create a pod, if you do not specify a service account, it is automatically assigned the default service account in the same namespace. If you get the raw json or yaml for a pod you have created (for example, `kubectl get pods/ -o yaml`), you can see the `spec.serviceAccountName` field has been automatically set. You can access the API from inside a pod using automatically mounted service account credentials, as described in Accessing the Cluster. The API permissions of the service account depend on the authorization plugin and policy in use. In version 1.6+, you can opt out of automounting API credentials for a service account by setting `automountServiceAccountToken: false` on the service account:

```
apiVersion: v1 kind: ServiceAccount metadata: name: build-robot automountServiceAccountToken: false
```

In version 1.6+, you can also opt out of automounting API credentials for a particular pod: `apiVersion: v1 kind: Pod metadata: name: my-pod spec: serviceAccountName: build-robot automountServiceAccountToken: false`

The pod spec takes precedence over the service account if both specify a `automountServiceAccountToken` value.

---

## QUESTION 6

Create a PSP that will prevent the creation of privileged pods in the namespace.

Create a new PodSecurityPolicy named prevent-privileged-policy which prevents the creation of privileged pods.

Create a new ServiceAccount named psp-sa in the namespace default.

Create a new ClusterRole named prevent-role, which uses the newly created Pod Security Policy prevent-privileged-policy.

Create a new ClusterRoleBinding named prevent-role-binding, which binds the created ClusterRole prevent-role to the created SA psp-sa.

Also, Check the Configuration is working or not by trying to Create a Privileged pod, it should get failed.

A. See the below.

B. Placeholder

Correct Answer: A

Create a PSP that will prevent the creation of privileged pods in the namespace. \$ cat clusterrole-use-privileged.yaml  
apiVersion: rbac.authorization.k8s.io/v1

kind: ClusterRole metadata: name: use-privileged-psp rules:

-apiGroups: ['policy']

resources: ['podsecuritypolicies']

verbs: ['use']

resourceNames:

-default-psp

apiVersion: rbac.authorization.k8s.io/v1 kind: RoleBinding metadata: name: privileged-role-bind namespace: psp-test  
roleRef: apiGroup: rbac.authorization.k8s.io kind: ClusterRole name: use-privileged-psp subjects:

-kind: ServiceAccount name: privileged-sa \$ kubectl -n psp-test apply -f clusterrole-use-privileged.yaml

After a few moments, the privileged Pod should be created.

Create a new PodSecurityPolicy named prevent-privileged-policy which prevents the creation of privileged pods.

apiVersion: policy/v1beta1

kind: PodSecurityPolicy

metadata:

name: example

spec:

privileged: false # Don't allow privileged pods!

# The rest fills in some required fields.

seLinux:

rule: RunAsAny

supplementalGroups:

rule: RunAsAny

runAsUser:

rule: RunAsAny

fsGroup:

rule: RunAsAny

volumes:

-\\\*\\'

And create it with kubectl:

```
kubectl-admin create -f example-psp.yaml
```

Now, as the unprivileged user, try to create a simple pod:

```
kubectl-user create -f-
```