Lab06 - Enforcing a Pod Security Standard Upon Pod Creation

You are tasked with defining a Pod Security Admission rule that should control the creation of Pods in the namespace `k29`.

1. Create the namespace `k29`. In the namespace, define a Pod Security Standard (PSS) with the level `restricted` that will cause a Pod to be rejected upon violation.

2. Create objects from the YAML manifests `pod-non-root.yaml`, `pod-root.yaml` and `pod-privileged.yaml`.

```
brahim@Training:~/cks-lab/labs/06-pod-security-admission$ vim pod-non-root.yaml
brahim@Training:~/cks-lab/labs/06-pod-security-admission$ cat pod-non-root.yaml
apiVersion: v1
kind: Pod
metadata:
 name: non-root-user-container
 namespace: k29
spec:
 containers:
  - image: bitnami/nginx:1.21.6
   name: secured-container
    securityContext:
      runAsNonRoot: true
      allowPrivilegeEscalation: false
      capabilities:
       drop: ["ALL"]
      seccompProfile:
       type: RuntimeDefault
brahim@Training:~/cks-lab/labs/06-pod-security-admission$ kubectl apply -f pod-non-root.yaml
pod/non-root-user-container created
brahim@Training:~/cks-lab/labs/06-pod-security-admission$
```

```
brahim@Training:~/cks-lab/labs/06-pod-security-admission$ vim pod-privileged.yaml
brahim@Training:~/cks-lab/labs/06-pod-security-admission$ cat pod-privileged.yaml
apiversion: v1
kind: Pod
metadata:
    name: privileged-container
    namespace: k29
spec:
    containers:
    - image: bitnami/nginx:1.21.6
    name: secured-container
    securityContext:
        runAsNonRoot: true
        privileged: true
        allowPrivilegeEscalation: true
        capabilities:
        drop: ["ALL"]
        seccompProfile:
            type: RuntimeDefault
brahim@Training:-/cks-lab/labs/06-pod-security-admission$ kubectl apply -f pod-privileged.yaml
Error from server (Forbidden): error when creating "pod-privileged.yaml": pods "privileged-container" is forbidden: violates PodSecurity "rest
ricted:latest": privileged (container "secured-container" must not set securityContext.privileged=true), allowPrivilegeEscalation != false (co
trahim@Training:-/cks-lab/labs/06-pod-security-admission$
```

Which of the Pods will be created and why?