Create Pod with Sysctl Parameters

Objective

Create a new Pod named sysctl-pod with the image nginx:1.23.1. Set the sysctl parameters:

• net.core.somaxconn to 1024.

You may need to configure kubelet to allow the unsafe syctl.

After creating the pod, check its status.

Configuration

Pod Name: sysctl-pod
Namespace: default
Image: nginx:1.23.1
Sysctl Parameters:

net.core.somaxconn: 1024

Solution

- ► Click to expand solution
 - 1. Configure the kubelet to allow the unsafe sysctl by editing its config:

```
# Add or update allowedUnsafeSysctls in kubelet config
sudo echo 'allowedUnsafeSysctls: ["net.core.somaxconn"]' >>
/var/lib/kubelet/config.yaml
```{{exec}}
Wait 60 seconds for the kubelet to restart (check with `systemctl status
2. Create a pod YAML file with the required sysctl parameters:
```bash
kubectl apply -f - <<EOF
apiVersion: v1
kind: Pod
metadata:
 name: sysctl-pod
spec:
  securityContext:
    sysctls:
    - name: net.core.somaxconn
      value: "1024"
  containers:
  - name: nginx
```

```
image: nginx:1.23.1
EOF
```{{exec}}

3. Verify the pod status:
    ```bash
kubectl get pod sysctl-pod
    ```{{exec}}

4. Check the sysctl parameters inside the pod:
    ```bash
kubectl exec sysctl-pod -- apt-get update && apt-get install -y procps; sysctl net.core.somaxconn
    ```{{exec}}
</details>
```