Demo: Unauthenticated Kubernetes Dashboard

The Kubernetes Dashboard is a web-based user interface for managing your Kubernetes clusters. An unauthenticated Kubernetes Dashboard doesn't require any credentials to access, meaning that anyone with the URL can interact with the cluster. With unrestricted access, malicious users can view sensitive information about your cluster, deploy new applications, modify existing services, or even delete critical components. Essentially, they can manage all aspects of your cluster, potentially leading to data loss or disruption of service.

Trainer-Specific Demo Setup (Not for Students)

Open New Terminal (Optional)

If current working directory is not `workspace/`.

- Click on `+` icon, then select `new terminal` to open new terminal.

- Keep current working directory as `workspace/`

```
cd course/4.6_misconfigkind_scenario/kubernetes-dashboard
ls
```

- Run `kubectl apply` command to deploy the application.

```
kubectl apply -f .
```

Check the rbac permissions in `cluster-role.yaml`

- Run the cat command to check the content of `cluster-role.yaml` file.

```
cat cluster-role.yaml
```

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
  name: admin-role
rules:
  - apiGroups: ["*"]
    resources: ["*"]
    verbs: ["*"]
```

Get the kubernetes dashboard yaml from github repository.
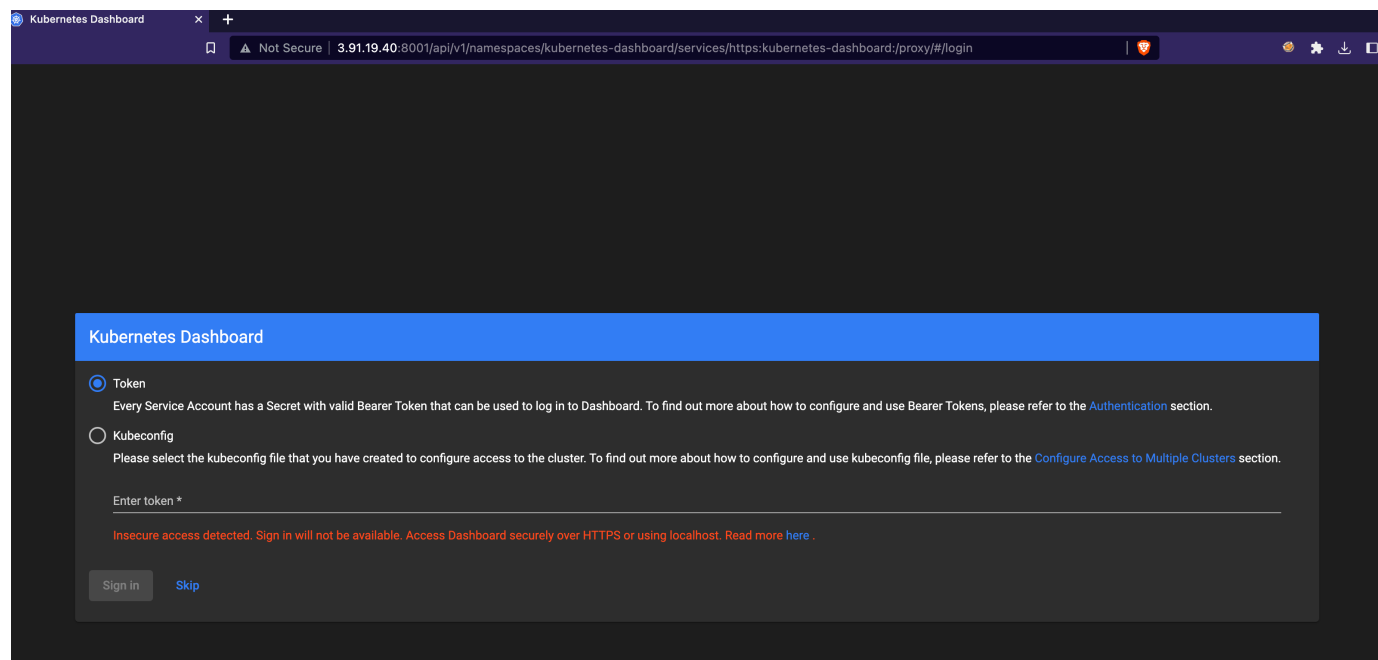
Run the forward proxy command to access the dashboard. `kubectl proxy --address='0.0.0.0' --disable-filter=true &`

To stop the process, run `fg` and then `ctrl+c` .

- Access dashboard via below command.

```
echo $(curl -s ifconfig.me):8001/api/v1/namespaces/kubernetes-dashboard
/services/https:kubernetes-dashboard:/proxy/#/login
```

Try accessing the URL generated in the demo.

Provide Dashboard URL to Students For Lab