Kubernetes Dashboard

# Ref-

<https://github.com/kubernetes/dashboard/releases>

<https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

<https://docs.aws.amazon.com/eks/latest/userguide/dashboard-tutorial.html>

# Step 1: Deploy the Kubernetes dashboard

kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/<v2.x.x>/aio/deploy/recommended.yaml

Get version 2.x.x which is compatible with your kubernetes version i.e. 1.23, 1.24, 1.25 etc..

# Step 2: Create a clusterrole with necessary permissions

apiVersion: rbac.authorization.k8s.io/v1

kind: ClusterRole

metadata:

name: developer-reader

rules:

- apiGroups:

- ""

resources:

- '\*'

verbs:

- get

- watch

- list

# 

# Step 3: Create an eks-admin service account and cluster role binding

cat >eks-admin-service-account.yaml <<EOF

apiVersion: v1

kind: ServiceAccount

metadata:

name: eks-admin

namespace: kube-system

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apiVersion: rbac.authorization.k8s.io/v1

kind: ClusterRoleBinding

metadata:

name: eks-admin

roleRef:

apiGroup: rbac.authorization.k8s.io

kind: ClusterRole

name: developer-reader

subjects:

- kind: ServiceAccount

name: eks-admin

namespace: kube-system

EOF

# Step 4 : Connect to the dashboard

kubectl -n kube-system describe secret $(kubectl -n kube-system get secret | grep eks-admin | awk '{print $1}')

Copy the *authentication-token* value from the output. You use this token to connect to the dashboard in a later step.

kubectl proxy

To access the dashboard endpoint, open the following link with a web browser: <http://localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#!/login>.

Choose Token, paste the *authentication-token* output from the previous command into the Token field, and choose SIGN IN.

After signing in, you see the dashboard in your web browser.