**Deploy the Dashboard on your EKS Cluster to access it.**

**Install Kubectl**

**1**. Now run below command to add Kubernetes certificates.

|  |
| --- |
| # apt-get update  # apt-get install -y apt-transport-https curl # curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add - cat <<EOF >/etc/apt/sources.list.d/kubernetes.list deb https://apt.kubernetes.io/ kubernetes-xenial main EOF # apt-get update  # apt-get install \  apt-transport-https \  ca-certificates \  curl \  gnupg2 \  software-properties-common -y |
|  |

**2**. Install kubectl, kubeadm, kubelet and CNI

|  |
| --- |
| # apt-get install kubectl=1.13.4-00 |

2. Replace the EKS\_ClusterName with your Cluster Name in the below command

|  |
| --- |
| # aws eks update-kubeconfig --name EKS\_ClusterName --region=us-east-2 |

3. Run the below commands to check if you are if you are able to connect to your Cluster.

|  |
| --- |
| # kubectl get nodes |

**To create a Kubernetes dashboard, run the following command:**

4. To create a Kubernetes dashboard, run the following command:

|  |
| --- |
| # kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v1.10.1/src/deploy/recommended/kubernetes-dashboard.yaml |

5. To make metrics and graphs available on your dashboard with **heapster**, run the following command:

|  |
| --- |
| # kubectl apply -f https://raw.githubusercontent.com/kubernetes/heapster/master/deploy/kube-config/influxdb/heapster.yaml |

6. To create a deployment and service, run the following command:

|  |
| --- |
| # kubectl apply -f https://raw.githubusercontent.com/kubernetes/heapster/master/deploy/kube-config/influxdb/influxdb.yaml |

7. To create a cluster role binding for the dashboard, run the following command:

|  |
| --- |
| # kubectl apply -f https://raw.githubusercontent.com/kubernetes/heapster/master/deploy/kube-config/rbac/heapster-rbac.yaml |

8. To create a new service account with cluster admin privileges, run the following command:

|  |
| --- |
| cat > eks-admin-service-account.yaml << EOF apiVersion: v1 kind: ServiceAccount metadata:  name: eks-admin  namespace: kube-system --- apiVersion: rbac.authorization.k8s.io/v1beta1 kind: ClusterRoleBinding metadata:  name: eks-admin roleRef:  apiGroup: rbac.authorization.k8s.io  kind: ClusterRole  name: cluster-admin subjects: - kind: ServiceAccount  name: eks-admin  namespace: kube-system EOF |
|  |

9. To verify that a manifest file was created in the previous step, run the following command:

|  |
| --- |
| # cat eks-admin-service-account.yaml |

10. To bind **eks-admin** to the cluster role binding, run the following command:

|  |
| --- |
| # kubectl apply -f eks-admin-service-account.yaml |

11. To forward all requests from your Amazon Workstation Public-IP port to the Kubernetes dashboard port, run the following command on your AWS Workstation:

|  |
| --- |
| # kubectl port-forward --address 0.0.0.0 svc/kubernetes-dashboard -n kube-system 6443:443 & |

**Press Ctrl+c**

**Access the Kubernetes dashboard in a browser**

16. To access your Kubernetes dashboard in a browser, enter **https://<public-ip-of-your-aws-workstation>:6443**

12. To get a bearer token for authorization, run the following command:

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

13. Login to the Dashboard by Selecting **Token** and paste the **token** obtained from step 12.

