

INSTALLING KUBERNETES DASHBOARD

Steps for Master

Visit the following website

https://kubernetes.io/docs/tasks/access-application-cluster/web-ui-dashboard/#deploying-the-dashboard-ui

Step 1: Copy the following link from the above website and paste in the terminal

Deploying the Dashboard UI 🖘

The Dashboard UI is not deployed by default. To deploy it, run the following command:

kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0/aio/

ubuntu@ip-172-31-11-83:~

ubuntu@ip-172-31-11-83:~\$ kubectl create -f https://raw.githubusercontent.com/kubernetes/dashboard/master/aio/deploy/recommended/kubernetes-dashboard.yaml secret/kubernetes-dashboard-certs created secret/kubernetes-dashboard-csrf created serviceaccount/kubernetes-dashboard created role.rbac.authorization.k8s.io/kubernetes-dashboard-minimal created rolebinding.rbac.authorization.k8s.io/kubernetes-dashboard-minimal created deployment.apps/kubernetes-dashboard created service/kubernetes-dashboard created



Step 2: Edit the Kubernetes Dashboard service with this command

\$ kubectl edit svc kubernetes-dashboard —n kubernetesdashboard

```
apiVersion v1
kind Service
metadata:
 creationTimestamp; "2019-02-07T06:35:46Z"
 labels
  k8s-app kubernetes-dashboard
 name: kubernetes-dashboard
 namespace: kube-system
 resourceVersion: "4641"
 selfLink: /api/v1/namespaces/kube-system/services/kubernetes-dashboard
 uid: 9a175102-2aa2-11e9-bb60-02ad39c31cfe
 clusterIP: 10.107.37.124
 ports
  - port: 443
   protocol TCP
   targetPort: 8443
```



Step 3: Change the text "clusterip" to "nodeport", once done save and exit.

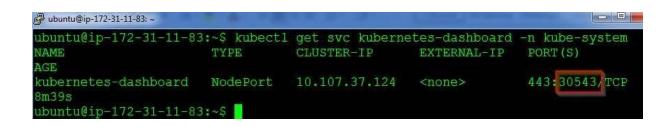
```
    ubuntu@ip-172-31-11-83: ~

apiVersion: v1
kind: Service
metadata:
  creationTimestamp: "2019-02-07T06:3
  labels:
    k8s-app: kubernetes-dashboard
  name: kubernetes-dashboard
  namespace: kube-system
  resourceVersion: "4641"
  selfLink: /api/v1/namespaces/kube-sys
  uid: 9a175102-2aa2-11e9-bb60-02ad39c3
spec:
  clusterIP: 10.107.37.124
  ports:
  - port: 443
    protocol: TCP
    targetPort: 8443
  selector:
    k8s-app: kubernetes-dashboard
  sessionAffinity: None
  type: NodePort
 tatus
  loadBalancer:
```

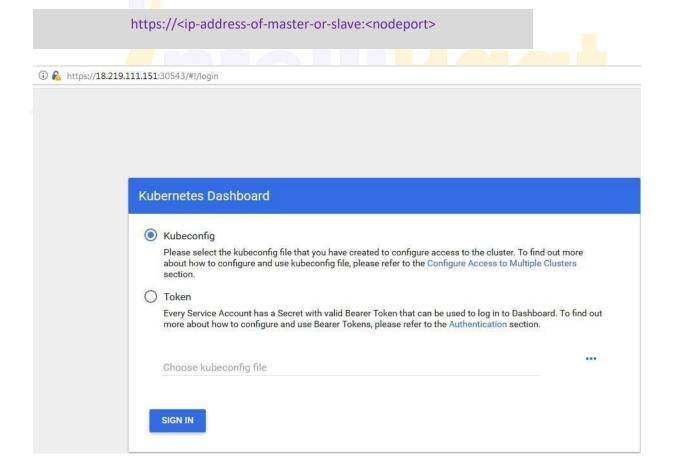


Step 4: Finally note down the IP address of the kubernetes-dashboard service using the following command:

\$ kubectl get svc kubernetes-dashboard -n kubernetes-dashboard



Step 5: Next browse, to the following address, to the see the login page of the dashboard:





Step 6: For logging in, use the following commands:

Create service account
kubectl create serviceaccount cluster-admin-dashboard-sa

Bind ClusterAdmin role to the service account
kubectl create clusterrolebinding cluster-admin-dashboard-sa \
--clusterrole=cluster-admin \
--serviceaccount=default:cluster-admin-dashboard-sa

Parse the token

TOKEN=\$(kubectl describe secret \$(kubectl -n kube-system get secret | awk '/^cluster-admin-dashboard-

Step 7: Now pass the following command, to view the token:

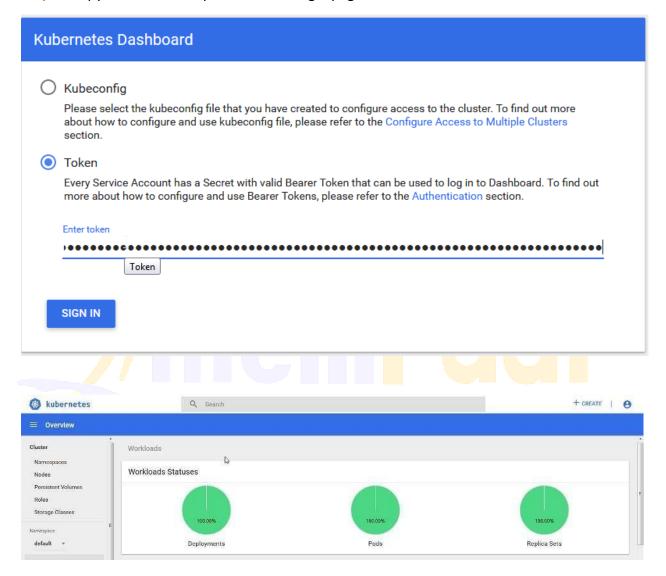
sa-token-/{print \$1}') | awk '\$1=="token:"{print \$2}')

echo \$TOKEN

🐶 ubuntu@ip-172-31-11-83: ~ ubuntu@ip-172-31-11-83:~\$ echo \$TOKEN eyJhbGciOiJSUzI1NiIsImtpZCI6IiJ9.eyJpc3MiOiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW50Iiv a3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9uYWllc3BhY2Ui0iJkZWZhdWx0Iiwia3ViZXJuZX. lcy5pby9zZXJ2aWN1YWNjb3VudC9zZWNyZXQubmFtZSI6ImNsdXN0ZXItYWRtaW4tZGFzaGJvYXJkLXI hLXRva2VuLTJua3R0Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9zZXJ2aWNlLWFjY291bnç ubmFtZSI6ImNsdXN0ZXItYWRtaW4tZGFzaGJvYXJkLXNhIiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYW jb3VudC9zZXJ2aWN1LWFjY291bnQudWlkIjoiZGExOWU0YjgtMmFhNC0xMWU5LWJiNjAtMDJhZDM5YzN XY2Z1Iiwic3ViIjoic31zdGVtOnNlcnZpY2VhY2NvdW500mR1ZmF1bHQ6Y2x1c3Rlci1hZG1pbi1kYXI oYm9hcmQtc2EifQ.Vs8Nq2x3tIs2varemmnY3Mnz3IkBoT58Dur7ERB9 DteuHoMvw6vdmNlKbcMvbb Q8wlAtsPaw0IHE0UT37hbXC7DUWgx5dE02m Pii12lFt7z0wdK6fYappJTyEvSSTZDjMXn-80BKJJdv . JanyqVljKQTOnHlmewEzSKYKmLztVC-RKoVe849sdJCXOTE_M_acIEq0tPDsOK4riSKdr2q7_4PtJOF DikUjZZM_pYor9pcAlto7TMITg_2-KNSABGRAr5XVYmhH_USHiUQjaZv_SeU-45LDQgEz34uatUqbov lyy7iGWfFWtIKF7P1KKGG2YVl1RffBgfkg66Wg eyJhbGci0iJSUzI1NiIsImtpZCI6IiJ9.eyJpc3M DiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW50Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWnlYWNjb3VudC9 YW11c3BhY2Ui0iJkZWZhdWx0Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3Vudc9zZWNyZXQubmFt ZSI6ImRlZmF1bHQtdG9rZW4tNnQ4eHEiLCJrdWJlcm5ldGVzLmlvL3NlcnZpY2VhY2NvdW50L3NlcnZ Y2UtYWNjb3VudC5uYW1lIjoiZGVmYXVsdCIsImt1YmVybmV0ZXMuaW8vc2VydmljZWFjY291bnQvc2V dmljzS1hY2NvdW50LnVpZCI6ImQzNGZmNGZ1LTJhOWItMTF1OS1iYjYwLTAyYWQzOWMzMWNmZSIsInN: YiI6InN5c3RlbTpzZXJ2aWN1YWNjb3VudDpkZWZhdWx00mRlZmF1bHQifQ.kjvJvGy9j0fzo1GhmqLQ. SDmtfVUn4lwEmaE7K8VWPR2sFhjA1Dcyf4aLme7dn6CMpE4VPpCwEPcQeee3QmDQI-o8JrFOVy5G5U0. jOJTWegOg h3XSTF4n16m4a0EeSvG1Z0AQf2RdJ75Gp9nLz1f47oMA4Jla4Ru0RMA5SbWtmwtDVNOHII 2zXzVqZ3NTuw0Q3tt-aUP-q5U7b3BHmtdx31rONfUVfasm9iv0q2tH-igeS1BjvUraW9iMPFuN29H0ua YEiZCz4eK zt9RNoTehH7FWNkzY rmZBC Uoqmp00J5PJgaKPka9B12h5Yo0G20n44Po iCBeGnxqVe



Step 8: Copy this token and paste it in the login page of Kubernetes Dashboard:



Kubernetes Dashboard is now successfully installed!