

Kubernetes graphical dashboard

A graphical web user interface (dashboard) has been introduced in recent versions of Kubernetes. The dashboard allows you to get started quickly and enables some of the functionality found in the CLI as a more approachable and discoverable way of interacting with the system.

To get started, run the following command to grant cluster level permissions:

```
kubectl create clusterrolebinding cluster-admin-binding --
clusterrole=cluster-admin --user=$(gcloud config get-value account)
```

With the appropriate permissions set, run the following command to create a new dashboard service:

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

You should receive a similar output:

```
secret "kubernetes-dashboard-certs" 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
```

Now run the following command to edit the `yaml` representation of the dashboard service:

```
kubectl -n kube-system edit service kubernetes-dashboard
```

Press `i` to enter the editing mode.

Change type: ClusterIP to type: NodePort.

After making the change, save and close this file. Press **Esc**, then:

: wq

To log in to the Kubernetes dashboard you must authenticate using a token. Use a token allocated to a service account, such as the `namespace-controller`.

To get the token value, run the following command:

```
kubectl -n kube-system describe $(kubectl -n kube-system \
get secret -n kube-system -o name | grep namespace) | grep token:
```

You should receive a similar Output:

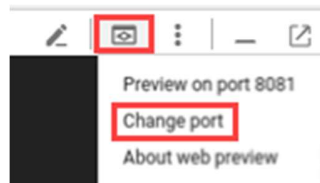
token:
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJrdWJlcm5ldGZvZ3L3N1cnZpY2VhY2Nv
dW50Iiwia3ViZXJlZXRlcw5pby9zZXJ2aWNlYWY2Y2VudC9uYW1lc3BhY2UiOiJrdWJlcnZpY2VhY2Nv
SisImt1YmVybWV0ZXMuw8vc2VydmljZWFjY291bnQvc2VjcmV0Lm5hbWUuIiJuY2VhY2NvY2Vydmlj
9udHJvbGxlcil0b2t1b1kOTZyNCIsImt1YmVybWV0ZXMuw8vc2VydmljZWFjY291bnQvc2Vydmlj

```
jZS1hY2NvdW50Lm5hbWUiOiJuYW1lc3BhY2UtY29udHJvbGxlcjIsImt1YmVybmV0ZXMuaW8vc2VydmmljZWFjY291bnQvc2VydmljZS1hY2NvdW50LnVpZCI6ImU2ZmFkNGQ5LTJjNjYtMTFLOC05NDFiLTQyMDEwYTgwMDFlYiIsInN1YiI6InN5c3RlbTpozZXJ2aWNlYWNjb3VudDprdWJlLXN5c3RlbTpuYW1lc3BhY2UtY29udHJvbGxlcjJ9.AY3Fp-T_4wxTzvo4kiWi4zxoJVTsr1Wy7BL_-HmIRlWTRAUmy_1RAJS19zn4BbSkxlV13Y9Bv3NoVcG01jKd4QoM172OXo2TqSU5v2B62i3-CDZtf3CVgQIp9jiuxACcR5zg3w-4ewGfH4C3ospoKCuaYyRaADLq0ThWLGaTQv9e7UjSfWAPir3XPXQut3mMRYrSiHcFNiEGeZtSfF3cyhuvL2I5LfH20yYuqW5j-w72BLnlqQGpuhJXJgH1_35XUCU8WtnkEK-qYX40ajDWJYals9_R-MWzF6Zwji2Gh5txOvxG3lZuIq9GSAOBp85617wB3eCGio6Nu3L9TwWXA
```

Copy the token and save it to use later to get into the Kubernetes dashboard. Run the following command to open a connection:

```
kubectyl proxy --port 8081
```

Then use the Cloud Shell Web preview feature to change ports to **8081**:



This should send you to the API endpoint.

To get to the dashboard, remove `?authuser=0` and append the URL with the following:

```
/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/#!/overview?namespace=default
```

Your final URL should resemble the following:

```
https://8081-dot-5177448-dot-devshell.appspot.com/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/#!/overview?namespace=default
```

You will then be taken a web preview:

Kubernetes Dashboard

☒ Kubeconfig

Please select the kubeconfig file that you have created to configure access to the cluster. To find out more about how to configure and use kubeconfig file, please refer to the [Configure Access to Multiple Clusters](#) section.

☐ Token

Every Service Account has a Secret with valid Bearer Token that can be used to log in to Dashboard. To find out more about how to configure and use Bearer Tokens, please refer to the [Authentication](#) section.

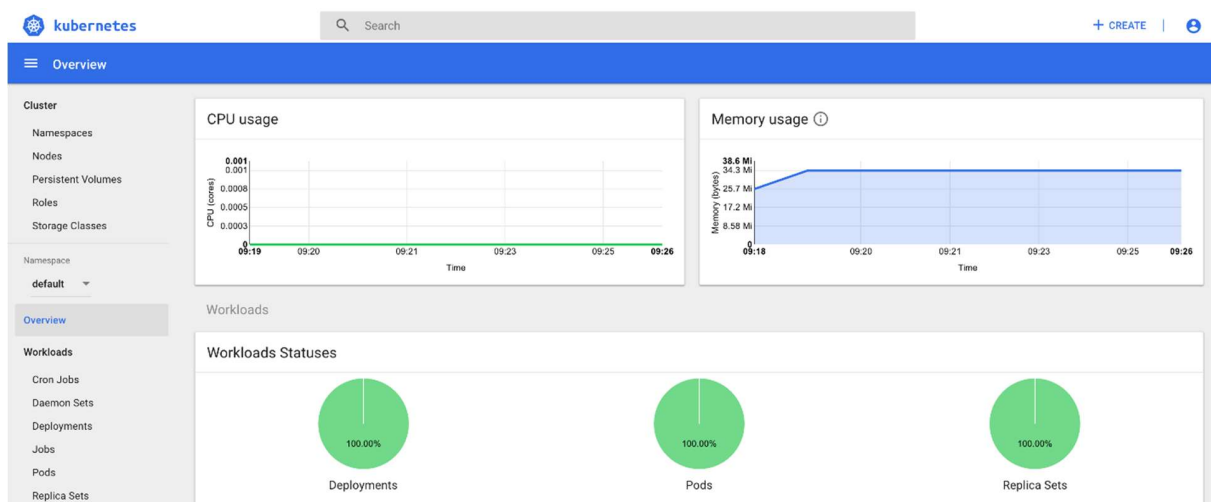
Choose kubeconfig file *

SIGN IN

SKIP

Select the **Token** radio button and paste the token copied from previous step. Click **Sign In**.

Enjoy the Kubernetes graphical dashboard and use it for deploying containerized applications, as well as for monitoring and managing your clusters!






You can access the dashboard from a development or local machine from the Web console. You would select **Navigation menu > Kubernetes Engine**, and then click the **Connect** button for the cluster you want to monitor.

Kubernetes clusters

[+ CREATE CLUSTER](#) [+ DEPLOY](#) [REFRESH](#) [DELETE](#)

A Kubernetes cluster is a managed group of uniform VM instances for running Kubernetes. [Learn more](#)

Filter by label or name

<input type="checkbox"/> Name ^	Location	Cluster size	Total cores	Total memory	Notifications	Labels
<input type="checkbox"/>  hello-world	us-central1-a	2	2 vCPUs	7.50 GB		Connect  

Connect to the cluster

You can connect to your cluster via command-line or using a dashboard.

Command-line access

Configure [kubectl](#) command line access by running the following command:

```
$ gcloud container clusters get-credentials hello-world --zone us-central1-a --project qwiklabs-gcp-783983f7ac
```

[Run in Cloud Shell](#)

Cloud Console dashboard

You can view the workloads running in your cluster in the Cloud Console [Workloads dashboard](#).

[Open Workloads dashboard](#)

OK

Learn more about the Kubernetes dashboard by taking the [Dashboard tour](#).