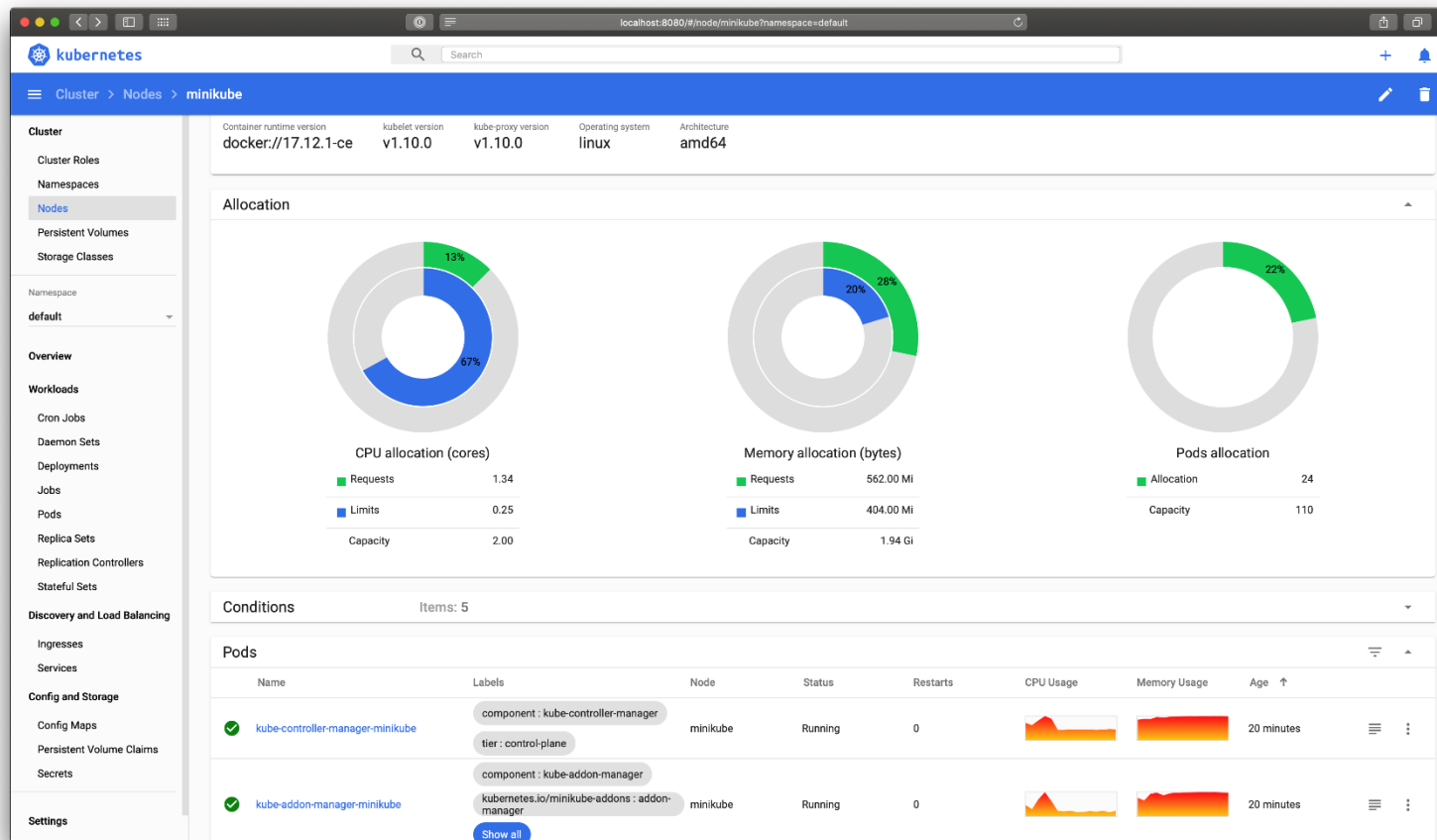


# Kubernetes Dashboard

Kubernetes Dashboard is a general purpose, web-based UI for Kubernetes clusters. It allows users to manage applications running in the cluster and troubleshoot them, as well as manage the cluster itself.



## Getting Started

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**IMPORTANT:** Read the [Access Control](#) guide before performing any further steps. The default Dashboard deployment contains a minimal set of RBAC privileges needed to run.

To deploy Dashboard, execute following command:

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

To access Dashboard from your local workstation you must create a secure channel to your Kubernetes cluster. Run the following command:

```
$ kubectl proxy
```

Now access Dashboard at:

<http://localhost:8001/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/>.

## Create An Authentication Token (RBAC)

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To find out how to create sample user and log in follow [Creating sample user](#) guide.

### NOTE:

- Kubeconfig Authentication method does not support external identity providers or certificate-based authentication.
- Dashboard can only be accessed over HTTPS
- [Heapster](#) has to be running in the cluster for the metrics and graphs to be available. Read more about it in [Integrations](#) guide.

## Documentation

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Dashboard documentation can be found on [Wiki](#) pages which contains:

- Common: Entry-level overview
- User Guide: [Installation](#), [Accessing Dashboard](#) and more for users
- Developer Guide: [Getting Started](#), [Dependency Management](#) and more for anyone interested in contributing

## Community, discussion, contribution, and support

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Learn how to engage with the Kubernetes community on the [community page](#).

You can reach the maintainers of this project at:

- [#sig-ui on Kubernetes Slack](#)
- [kubernetes-sig-ui mailing list](#)
- [Issue tracker](#)
- [SIG info](#)

## Code of conduct

Participation in the Kubernetes community is governed by the [Kubernetes Code of Conduct](#).

## License

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

## =====

### Creating sample user

In this guide, we will find out how to create a new user using Service Account mechanism of Kubernetes, grant this user admin permissions and log in to Dashboard using bearer token tied to this user.

Copy provided snippets to some dashboard-adminuser.yaml file and use `kubectl apply -f dashboard-adminuser.yaml` to create them.

#### Create Service Account

---

We are creating Service Account with name admin-user in namespace kube-system first.

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: admin-user
  namespace: kube-system
```

#### Create ClusterRoleBinding

---

In most cases after provisioning our cluster using kops or kubeadm or any other popular tool, the ClusterRole admin-Role already exists in the cluster. We can use it and create only ClusterRoleBinding for our ServiceAccount.

**NOTE:** apiVersion of ClusterRoleBinding resource may differ between Kubernetes versions. Prior to Kubernetes v1.8 the apiVersion was rbac.authorization.k8s.io/v1beta1.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: admin-user
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
```

```
name: cluster-admin
subjects:
- kind: ServiceAccount
  name: admin-user
  namespace: kube-system
```

## Bearer Token

Now we need to find token we can use to log in. Execute following command:

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

It should print something like:

```
Name:      admin-user-token-6gl6l
Namespace: kube-system
Labels:    <none>
Annotations: kubernetes.io/service-account.name=admin-user
              kubernetes.io/service-account.uid=b16afba9-dfec-11e7-bbb9-901b0e532516
```

Type: `kubernetes.io/service-account-token`

## Data

=====

```
ca.crt:      1025 bytes
```

```
namespace: 11 bytes
```

token:

eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJrdWJlcm5ldGVzL3N1cnZpY2VhY2NvdW50Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWVjb3VudC9uYyW1lc3BhY2UiOiJrdWJlLXN5c3RlbSI0Imt1YmVybmV0ZXMuaW8vc2VydmljZWJfY291bnQvc2VjcmV0Lm5hbWUiOiJhZG1pb11c2VyLXRva2VuLTZnbDZSIiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWVjb3VudC9zZXJ2aWNlLWFfY291bnQubmFtZSI6ImFkbWwvLXVzZXIiLCJrdWJlcm5ldGVzLm1vL3N1cnZpY2VhY2NvdW50L3N1cnZpY2UtYWNjb3VudC51aWQiOiJiMTZhZmJhOS1kZmVjLTExZTctYmJiOSt0SMDFIiMGMU1MzMtYiLCJzdWIiOiJzeXN0ZW06c2VydmljZWJfY291bnQ6a3ViZS1zeXN0ZW06YWRTatw4tdXN1ciJ9.M70CU3lbu3PP40jhFms8PVL5pQKj-jj4RNSLA4YmqFTXpPUuxqXjiTF094\_Rzr0fgN\_IVX6gC4fiNUL5ynx9KU-1kPfkhHnX8scxfJNZypL039mpGt0bbe1IXKSIRaq\_9VW59Xz-yBUhycYckPO9RM2Qa1Ax29nqNVko4vLn1\_1wpQJ6XSq3GYI8anTzV8Fku4jasUwjrs6Cn6\_sPEGmL54sq5R4Z5afUtv-mItTmqZZdxnkRqcJLLg2Y8wbCPogErbsaCDJoABQ7ppaqHetwfm\_0yMun6ABOQB Iwwl8pspJhplKwy0700SpvTT9z1Bs-u-b351zXGBRHv5g\_RA

Now copy the token and paste it into Enter token field on log in screen.

## 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.

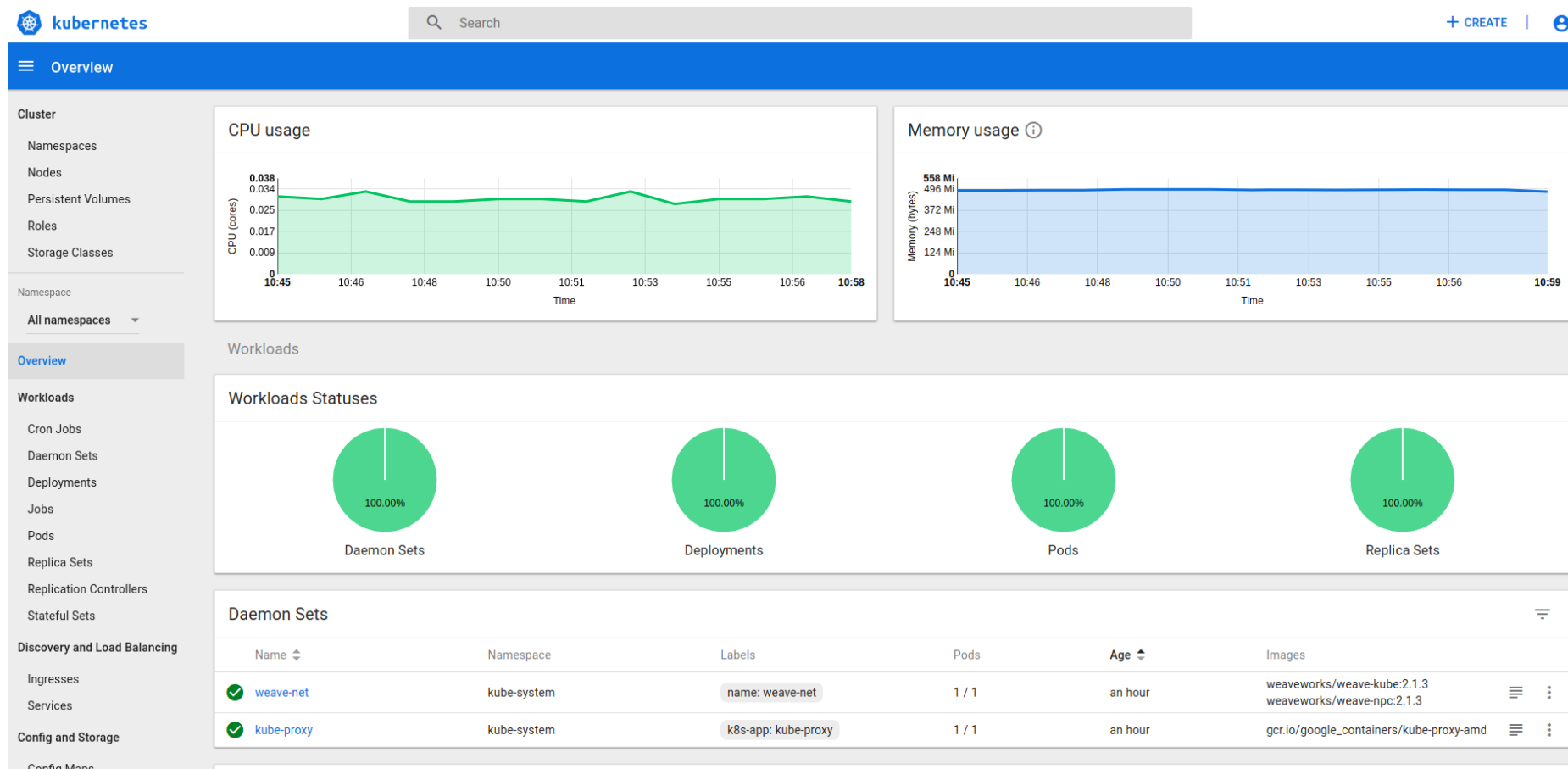
Enter token

.....

SIGN IN

SKIP

Click sign in button and that's it. You are now logged in as an admin.



In order to find out more about how to grant/deny permissions in Kubernetes read official [authentication](#) & [authorization](#) documentation.

Ref: <https://github.com/kubernetes/dashboard/wiki/Creating-sample-user>