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# KQueen UI Documentation

*Release 0.3*

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**Dec 22, 2017**



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# CHAPTER 1

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kqueen-ui package

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## 1.1 Server

## 1.2 Api

## 1.3 Auth

## 1.4 Exceptions

## 1.5 Generic Views

## 1.6 Tests

## 1.7 Subpackages

### 1.7.1 Flask blueprints

#### Subpackages

kqueen\_ui.blueprints.ui package

#### Submodules

kqueen\_ui.blueprints.ui.forms module

kqueen\_ui.blueprints.ui.utils module

kqueen\_ui.blueprints.ui.test\_utils module

kqueen\_ui.blueprints.ui.views module

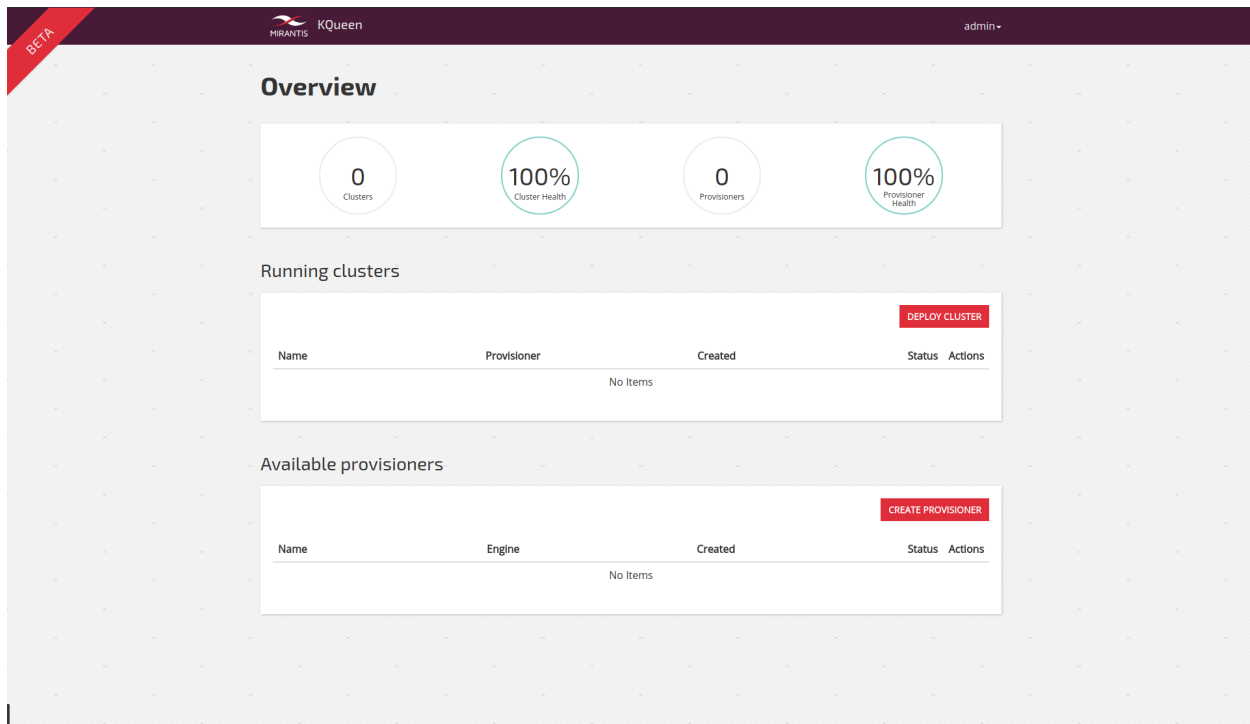
## CHAPTER 2

### Quickstart

#### 2.1 Login

First log in using your username and password.

You can see overview page of fresh organization, without any running resources. Let's create some.



## 2.2 First cluster

First you need to create provisioner instance, which represents single endpoint in specific backend e.g. single GCE project or single AKS tenant. You can provision all your Kubernetes clusters through this provisioner instance or you can create another one for different project/tenant in the same backend and/or another backend.

After you provide the necessary informations and submit the form, you can see your provisioner on the overview screen, provisioner status represents the availability of the backend at the time of provisioner creation.

Now we are set for deploying clusters to the selected backend. On the Cluster Deploy screen you need to select your existing provisioner and fill in parameters specific for backend implemented by your provisioner.

After you submit the form, you can see your new cluster on the overview page in the “Deploying” state.

## 2.3 Review your cluster

You can check the cluster detail page for more informations about your workload. Right after the deployment you need to wait before the cluster is provisioned.

Then you can see all your running deployments, pods and services as well as images and volumes in the Status tab of this detail page. In the Topology tab you can see your resources in graph visualization of your choice.

## 2.4 Manage users in your Organization

You can review your organization from the Manage Organization page.

Admin user can invite more users to his organization as member users. Just hit the Invite Member button and fill in new member’s e-mail address.



BETA

MIRANTIS KQueen admin

## Create Provisioner

Name

Engine

Google Container engine

Project

Service Account File (JSON)

Choose File

No file chosen

SUBMIT

BETA

MIRANTIS KQueen

Provisioner Example GCE Provisioner successfully created. ✕

## Overview

0  
Clusters

100%  
Cluster Health

1  
Provisioners

100%  
Provisioner Health

### Running clusters

DEPLOY CLUSTER

Name	Provisioner	Created	Status	Actions
No Items				

### Available provisioners

CREATE PROVISIONER

Name	Engine	Created	Status	Actions
Example GCE Provisioner	Google Container engine	Dec 22, 2017, 12:52:42 PM	<div></div>	<div></div>

BETA

MIRANTIS KQueen admin

## Deploy Kubernetes Cluster

Name

Provisioner

Example GCE Provisioner

Node Count

1

Zone

US - Central 1 - A

SUBMIT

BETA

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Provisioning of cluster Example GCE Cluster 1 is in progress. ✕

## Overview

1 Clusters




100% Cluster Health

1 Provisioners

100% Provisioner Health



### Running clusters


DEPLOY CLUSTER

Name	Provisioner	Created	Status	Actions
Example GCE Cluster 1	Example GCE Provisioner	Dec 22, 2017, 12:54:03 PM		  

### Available provisioners

CREATE PROVISIONER

Name	Engine	Created	Status	Actions
Example GCE Provisioner	Google Container engine	Dec 22, 2017, 12:52:42 PM		 

**BETA**  admin

## Cluster Example GCE Cluster 1 detail

0  
Namespaces

0  
Nodes


0  
Deployments

0  
Pods

0  
Services

KUBECONFIG N/A

STATE: DEPLOYING

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## Cluster Example GCE Cluster 1 detail

3  
Namespaces

1  
Nodes

6  
Deployments

8  
Pods

5  
Services





DOWNLOAD KUBECONFIG

STATE: OK

DONE

Status **Topology** Addons

### Nodes

Name	IP	OS	Size	Status	Pods
gke-af824414787cf449a90c-default-pool-3885e07b-r7kv	<ul style="list-style-type: none"> <li>InternalIP: 10.132.0.2</li> <li>ExternalIP: 35.195.165.253</li> </ul>	Container-Optimized OS from Google 4.4.64+	940m/2.71	   	8/110

### Deployments

Name	Namespace	Replicas	Containers
event-exporter-v0.1.7	kube-system	1/1	<ul style="list-style-type: none"> <li>event-exporter gcr.io/google-containers/event-exporter-v0.1.7</li> <li>prometheus-to-sd-exporter gcr.io/google-containers/prometheus-to-sd-v0.2.1</li> </ul>
heapster-v1.4.3	kube-system	1/1	<ul style="list-style-type: none"> <li>heapster eu.gcr.io/google_containers/heapster-amd64-v1.4.3</li> <li>prom-to-sd gcr.io/google-containers/prometheus-to-sd-v0.2.1</li> <li>heapster-nanny eu.gcr.io/google_containers/addon-resizer:1.7</li> </ul>
kube-dns	kube-system	1/1	<ul style="list-style-type: none"> <li>kubedns eu.gcr.io/google_containers/k8s-dns-kube-dns-amd64:1.14.5</li> <li>dnsmasq eu.gcr.io/google_containers/k8s-dns-dnsmasq-nanny-amd64:1.14.5</li> <li>sidecar eu.gcr.io/google_containers/k8s-dns-sidecar-amd64:1.14.5</li> </ul>

BETA

MIRANTIS KQueen

admin

### Cluster Example GCE Cluster 1 detail

3  
Namespaces

1  
Nodes

6  
Deployments

8  
Pods

5  
Services

DOWNLOAD KUBECONFIG

STATE: OK

DONE

Status

Topology

Addons

Nodes

Deployments

Services

Namespaces

Pods

#### Topology Layout

FORCE-DIRECTED

HIVE PLOT

#### Topology Resources

Pods

Services

Nodes

Deploys

Namespaces

#### Resource Detail

None selected

BETA

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admin

Change Password  
Manage Organization  
Logout

### Overview

1  
Clusters

100%  
Cluster Health

1  
Provisioners

100%  
Provisioner Health

#### Running clusters

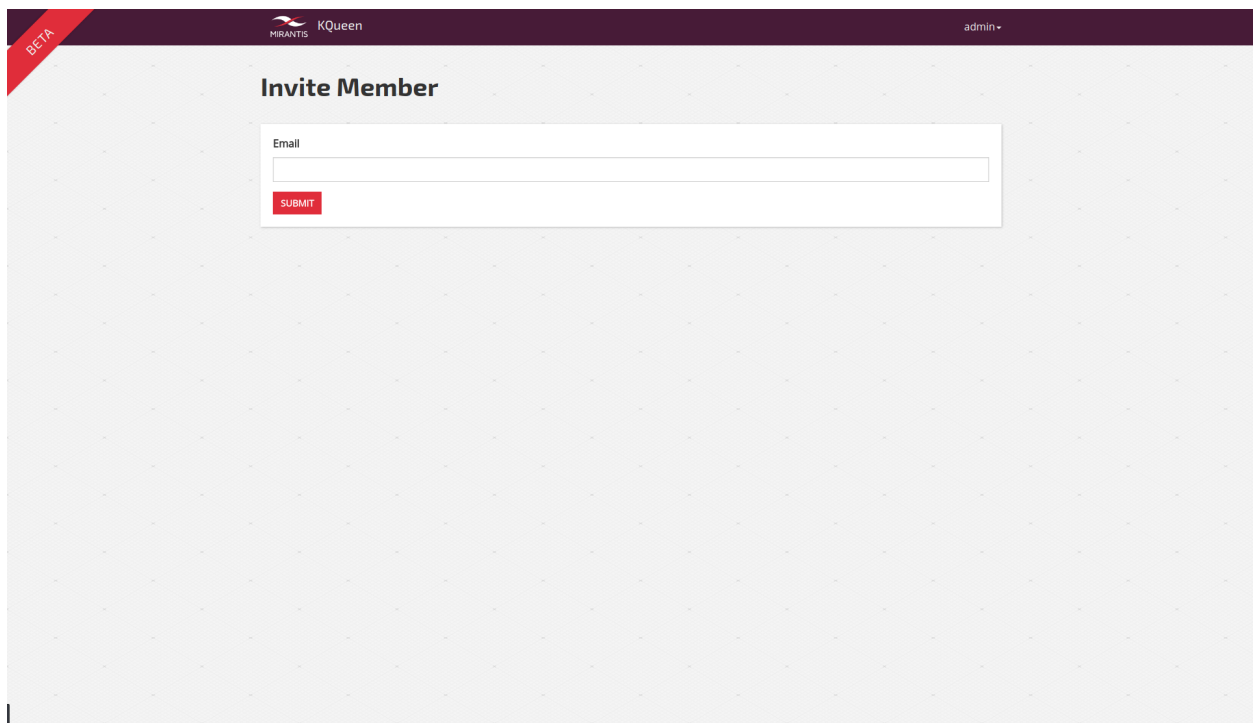
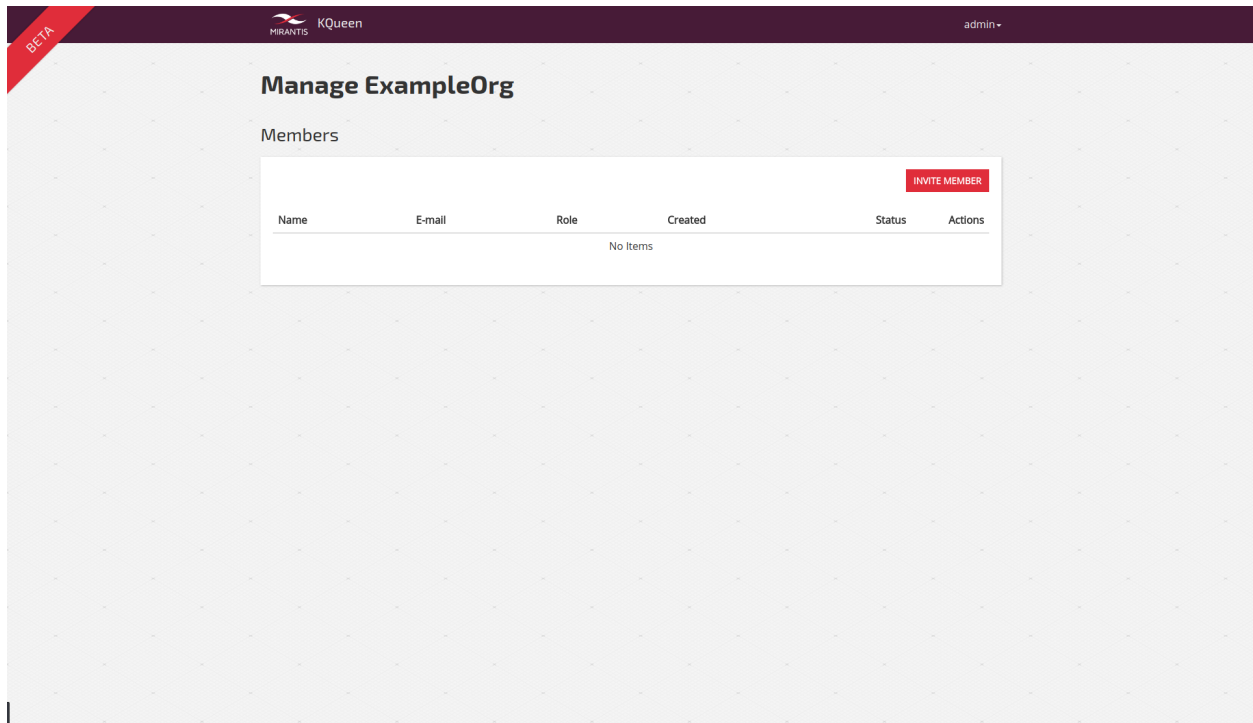
DEPLOY CLUSTER

Name	Provisioner	Created	Status	Actions
Example GCE Cluster 1	Example GCE Provisioner	Dec 22, 2017, 12:54:03 PM		

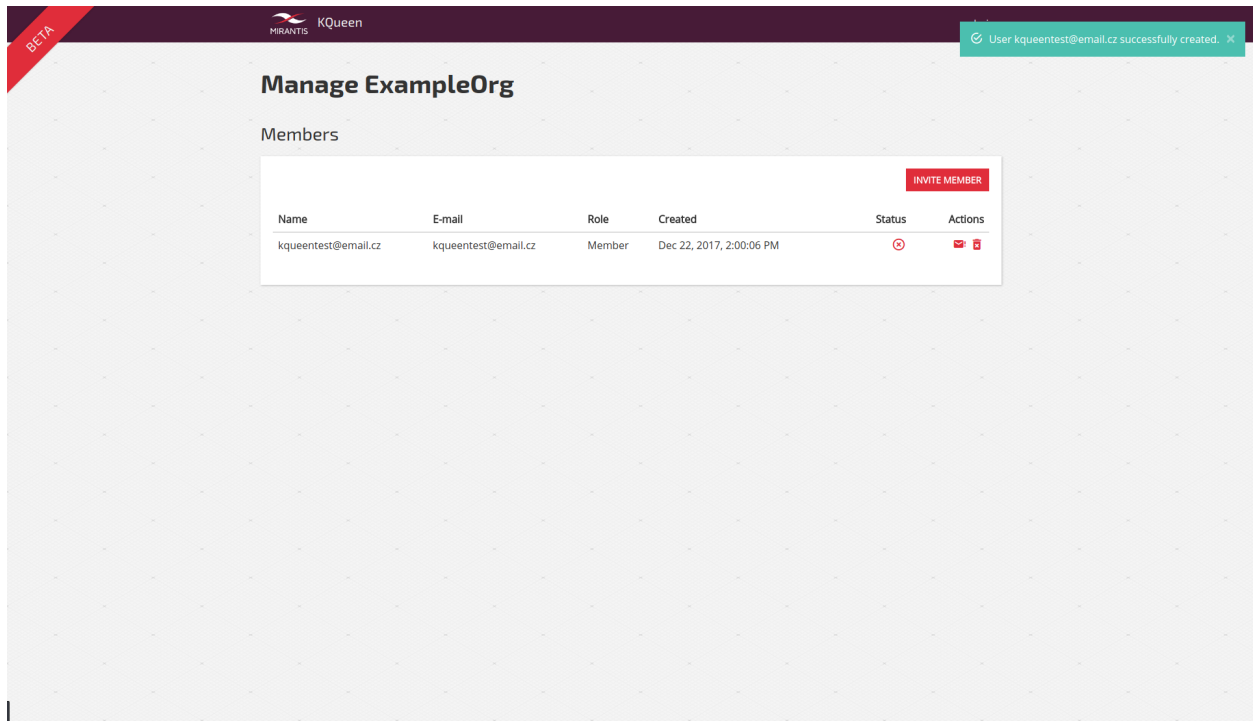
#### Available provisioners

CREATE PROVISIONER

Name	Engine	Created	Status	Actions
Example GCE Provisioner	Google Container engine	Dec 22, 2017, 12:52:42 PM		



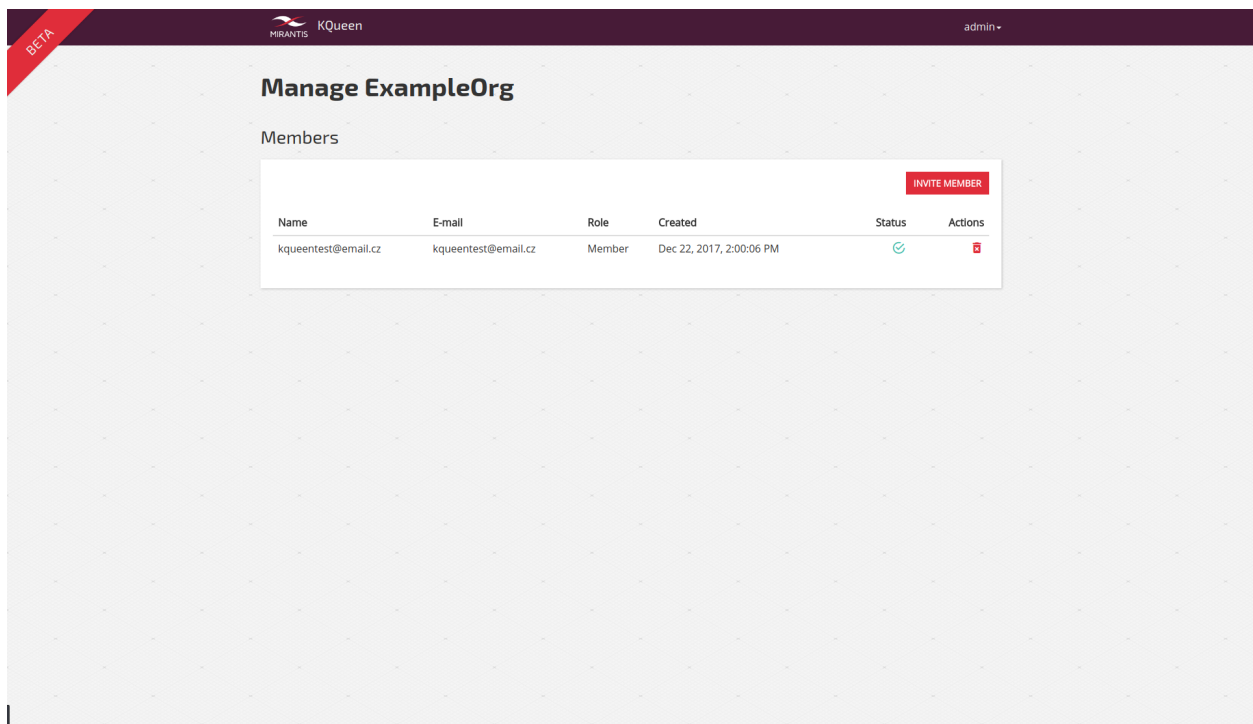
New members are considered inactive until they set their password via link provided in the e-mail. This e-mail can be resent with the Resend invitation button next to the respective user if needed.



The screenshot shows the KQueen UI interface for managing a group named 'ExampleOrg'. At the top, there is a dark purple header with the KQueen logo and a 'BETA' badge. A green notification banner at the top right states 'User kqueentest@email.cz successfully created.' Below the header, the page title 'Manage ExampleOrg' is displayed. Underneath, the 'Members' section contains a table with one member listed. The table has columns for Name, E-mail, Role, Created, Status, and Actions. The member listed is 'kqueentest@email.cz' with the role 'Member' and a creation date of 'Dec 22, 2017, 2:00:06 PM'. The status is 'Inactive' (indicated by a red circle with a slash). The actions column includes a 'Resend Invitation' button (envelope icon) and a 'Delete' button (trash icon). A red 'INVITE MEMBER' button is located at the top right of the table.

Name	E-mail	Role	Created	Status	Actions
kqueentest@email.cz	kqueentest@email.cz	Member	Dec 22, 2017, 2:00:06 PM	Inactive	<a href="#">Resend Invitation</a> <a href="#">Delete</a>

After they set the password, new users are considered active and can log into the application.



The screenshot displays the KQueen UI interface for managing an organization. The header is dark purple with a red 'BETA' banner on the left. The main content area is light gray with a white box containing the 'Members' section. The 'Members' section has a table with columns: Name, E-mail, Role, Created, Status, and Actions. There is one member listed: kqueentest@email.cz, Member, created on Dec 22, 2017, 2:00:06 PM, with a green status icon and a red 'X' icon in the Actions column. An 'INVITE MEMBER' button is located in the top right corner of the Members section.

**Manage ExampleOrg**

Members

INVITE MEMBER

Name	E-mail	Role	Created	Status	Actions
kqueentest@email.cz	kqueentest@email.cz	Member	Dec 22, 2017, 2:00:06 PM	✓	✗





## CHAPTER 3

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### Indices and tables

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- `genindex`
- `modindex`
- `search`