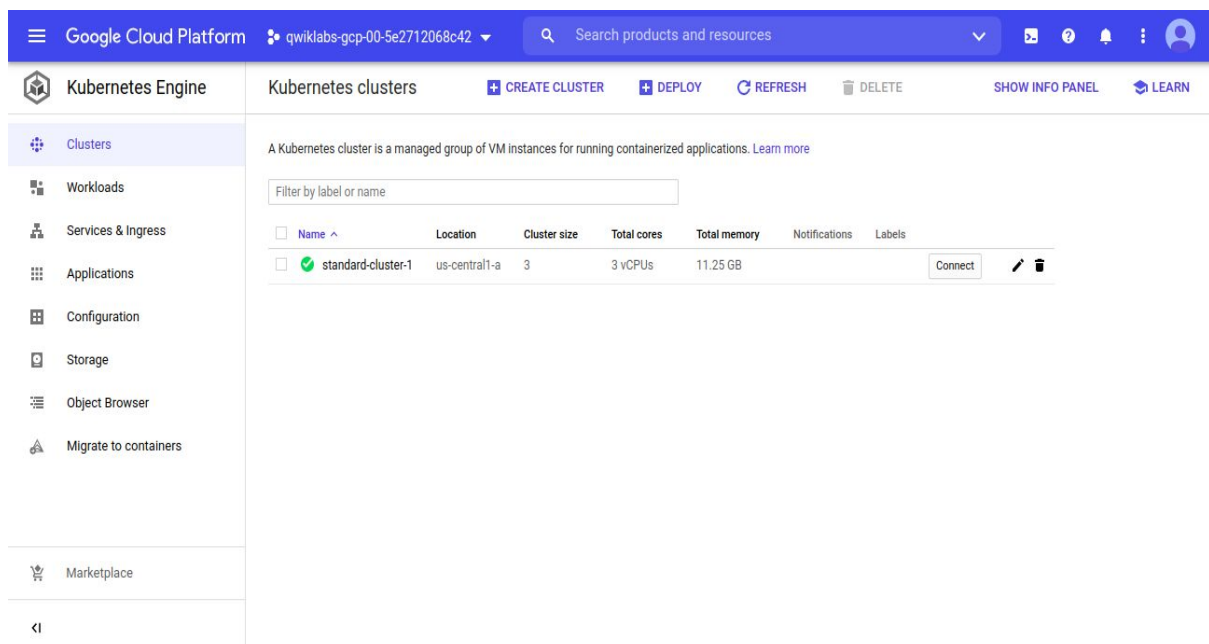


# Creating a GKE cluster via GCP console

## Lab objectives

- Use the GCP console to build and manipulate GKE clusters
- Use a GCP console to deploy a pod
- Use the GCP console to examine then cluster and pods

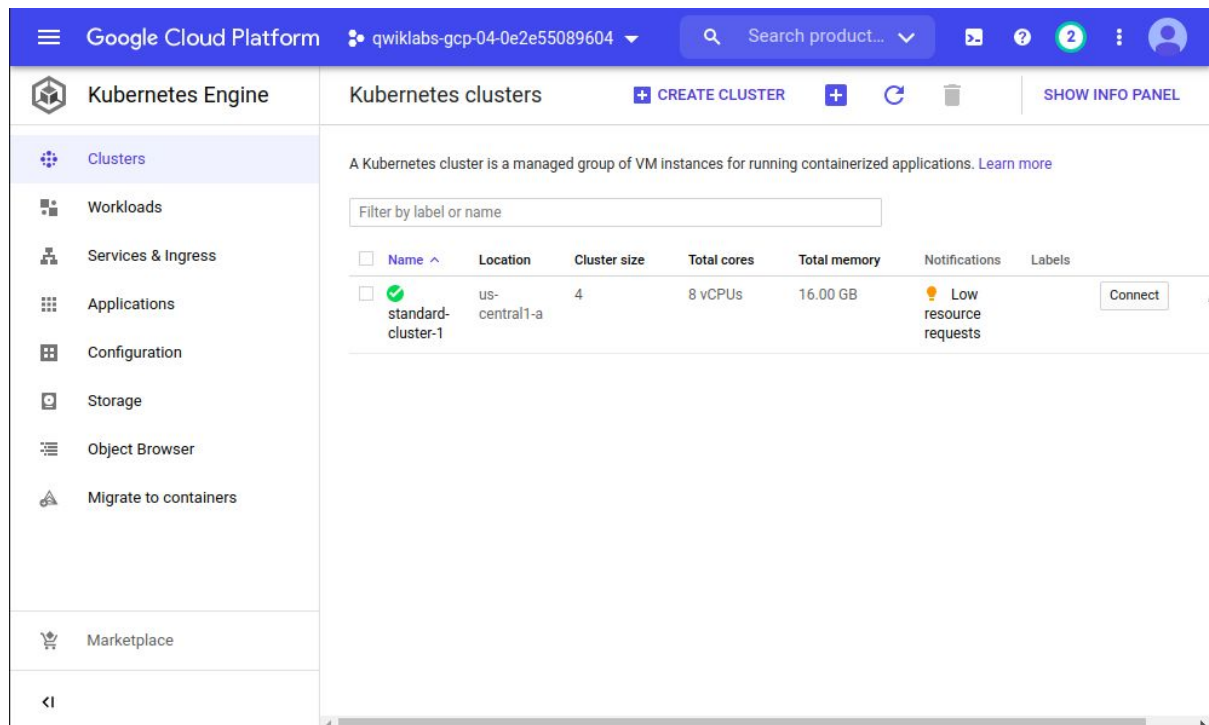
Google Kubernetes Engine is one of google components that allows containers managing in GCP. We started this lab by deploying a gke cluster with the GCP console. The cluster was named *standard-cluster-1* with 3 default nodes.



The screenshot shows the Google Cloud Platform console interface. The top navigation bar includes the Google Cloud Platform logo, the account ID 'qwiklabs-gcp-00-5e2712068c42', a search bar, and user profile icons. The left sidebar contains navigation links for various services: Kubernetes Engine, Workloads, Services & Ingress, Applications, Configuration, Storage, Object Browser, and Migrate to containers. The main content area is titled 'Kubernetes clusters' and includes buttons for 'CREATE CLUSTER', 'DEPLOY', 'REFRESH', and 'DELETE', along with links for 'SHOW INFO PANEL' and 'LEARN'. A description states: 'A Kubernetes cluster is a managed group of VM instances for running containerized applications. [Learn more](#)'. Below this is a filter input 'Filter by label or name'. A table lists the clusters:

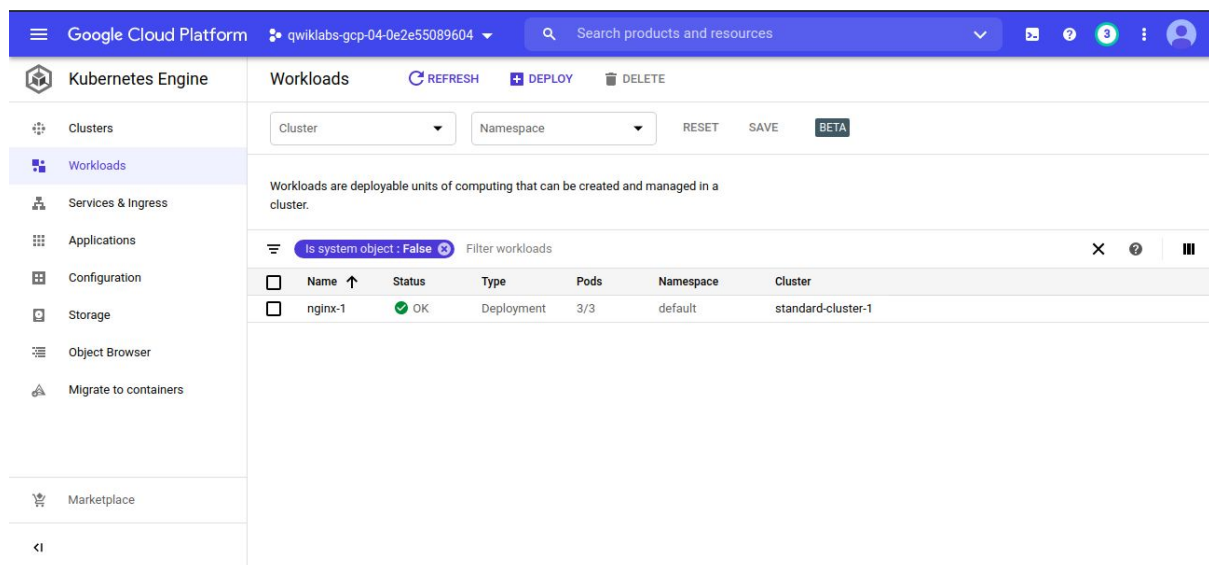
<input type="checkbox"/>	Name ^	Location	Cluster size	Total cores	Total memory	Notifications	Labels	
<input type="checkbox"/>	standard-cluster-1	us-central1-a	3	3 vCPUs	11.25 GB			<button>Connect</button>

We then changed the default nodes number from 3 to 4. This is shown on the screenshot below:



[Change nodes number from 3 to 4]

After deploying the cluster, we deployed a sample workload. This consisted of deploying a pod running the nginx web server. A pod is a virtual machine running one or many containers.



[Workload created]

We finally used the GCP console to see all details about the workload (Revision history, Events, Yaml configuration, Cpu Utilisation...)

Google Cloud Platform

qwiklabs-gcp-04-0e2e55089604

Search products and resources

2

Kubernetes Engine

Deployment details

REFRESH

EDIT

DELETE

ACTIONS

KUBECTL

SHOW INFO PANEL

Clusters

Workloads

Services & Ingress

Applications

Configuration

Storage

Object Browser

Migrate to containers

Marketplace

nginx-1

To let others access your deployment, expose it to create a service

EXPOSE

OVERVIEW

DETAILS

REVISION HISTORY

EVENTS

YAML

1 hour

6 hours

12 hours

1 day

2 days

4 days

7 days

14 days

30 days

CPU

Memory

Disk

No data is available for the selected time frame.

No data is available for the selected time frame.

No data is available for the selected time frame.