

Nome Completo :Paulo Ribeiro	Data:13/07/2021
Google Cloud	
Módulo : Kubernetes na Google Cloud Plataform	

Objetivo

Create cluster
Select the cluster mode that you'd like to use. [Learn more](#)

	Autopilot mode Optimized Kubernetes cluster with a hands-off experience	Standard mode Kubernetes cluster with node configuration flexibility
	CONFIGURE TRY THE DEMO	CONFIGURE TRY THE DEMO
Scaling	Automatic based on workload	You configure scaling
Nodes	Google manages and configures your nodes	You manage and configure your nodes
Configuration	Streamlined configuration ready to use	You can configure all options
Workloads supported	Most workloads except these limitations	All Kubernetes workloads
Billing method	Pay per pod	Pay per node (VM)
SLA	Kubernetes API and node availability	Kubernetes API availability

[View all](#)

Recommended for you
Deploying a containerized web application
Learn to package a web application in a Docker container image, and run on a GKE cluster as a load-balanced set of replicas.
[Apps & services](#)

Create a Guestbook with Redis and PHP
This tutorial shows how to build a simple multi-tier guestbook web app using GKE.
[Tutorials](#) [Apps & services](#)

Working with Google Cloud Platform and Kubernetes YAML
Use Cloud Code for snippets for common schemas, smart completion, linting, validation, and documentation on hover.
[Apps & services](#)

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Autopilot vai pagar pela quantidade de pod que utilizar.

Free trial status: R\$583.28 credit and 50 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

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Create an Autopilot cluster

Create an Autopilot cluster by specifying a name and region. After the cluster is created, you can deploy your workload through Kubernetes and we'll take care of the rest, including:

- ✓ **Nodes:** Automated node provisioning, scaling, and maintenance
- ✓ **Networking:** VPC-native traffic routing for public or private clusters
- ✓ **Security:** Shielded GKE Nodes and Workload Identity
- ✓ **Telemetry:** Cloud Operations logging and monitoring

Name

autopilot-cluster-1

Region

us-central1

Managed features in Autopilot

Autopilot clusters have these features already built in with Google-recommended best practices. We'll make sure your cluster is optimized and production-ready.
DONE

Networking

Define how applications in this cluster communicate with each other and how clients can reach them.

CREATE

CANCEL

Equivalent REST or

COMMAND LINE

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Clusters

Workloads

Services & Ingress

Applications

Configuration

Storage

Object Browser

Migrate to containers

Config Management

Marketplace

Release Notes

An optimized cluster with a hands-off experience. When you create a cluster in Autopilot mode, Google provisions and manages the entire cluster's underlying infrastructure, including nodes and node pools.
[Compare cluster modes](#)

- ✓ Get a production-ready cluster based on your workload requirements
- ✓ Eliminate the overhead of node management
- ✓ Pay per Pod, only for the resources that you use
- ✓ Increase security with Google best practices built-in
- ✓ Gain higher workload availability

TRY THE DEMO

LEARN MORE

Filter

Enter property name or value

	Name	Location	Mode	Number of nodes	Total vCPUs	Total
<input type="checkbox"/>	autopilot-cluster-1	us-central1	Autopilot	0		

Recommended for you

Setup GitOps-style continuous delivery with Cloud Build

Learn to create a continuous integration and delivery pipeline on GCP using hosted products and the GitOps methodology.

CI/CD

Networking overview

This document provides an overview of the main aspects of Google Kubernetes Engine networking.

Networking

Setup workload identity

Learn how to give your application access to Google APIs.

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Setting up apps and services

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CLOUD SHELL

Terminal

oval-replica-315723

Open Editor

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to oval-replica-315723.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
paribedavi@cloudshell:~ (oval-replica-315723)\$

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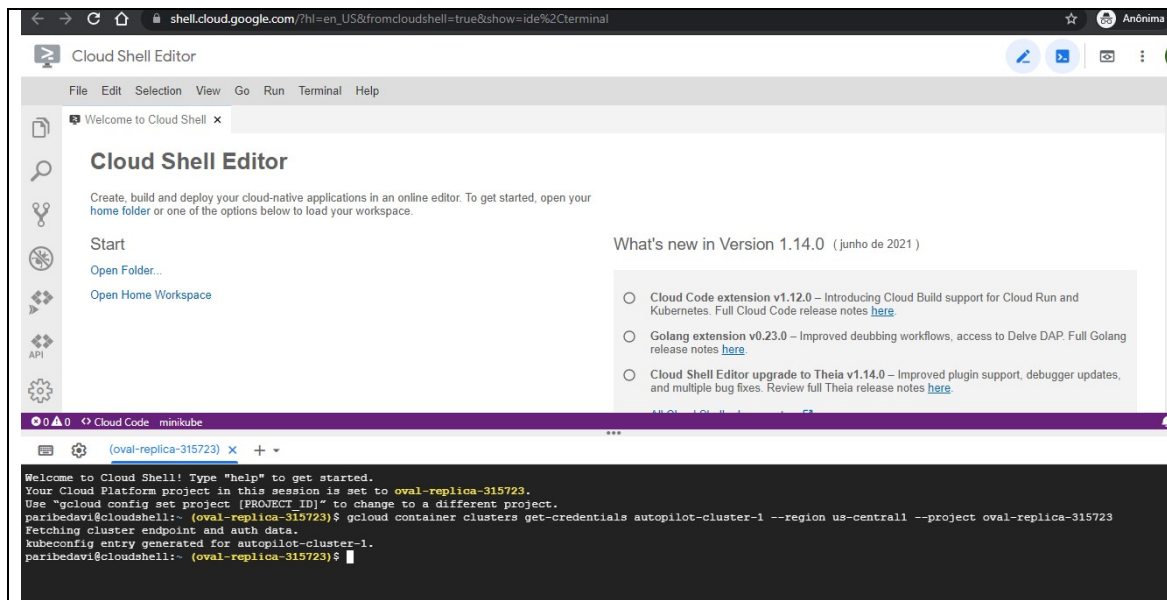
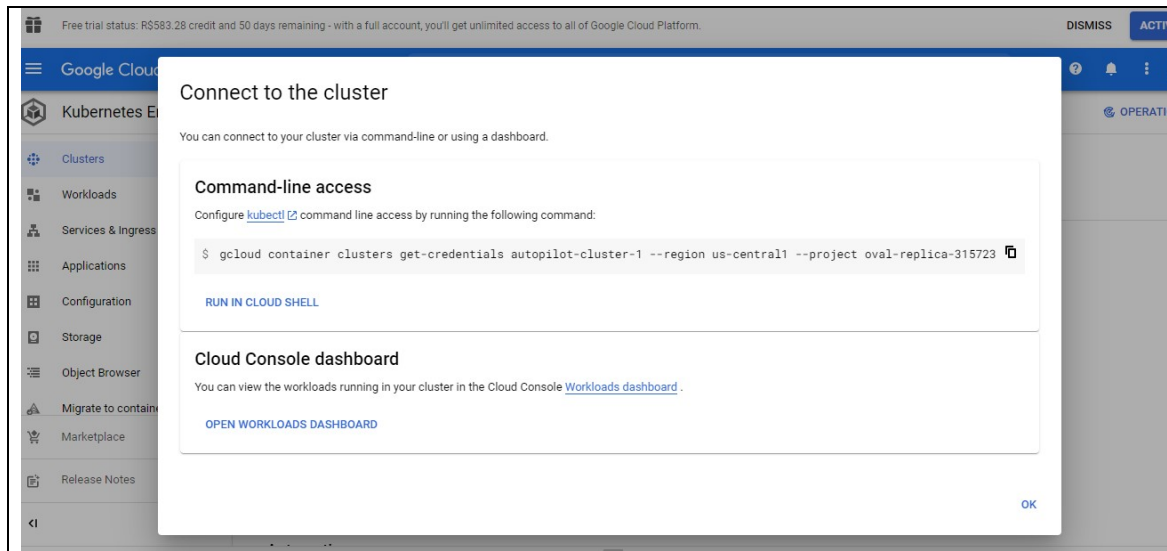
Learn how to give your application access to Google APIs.

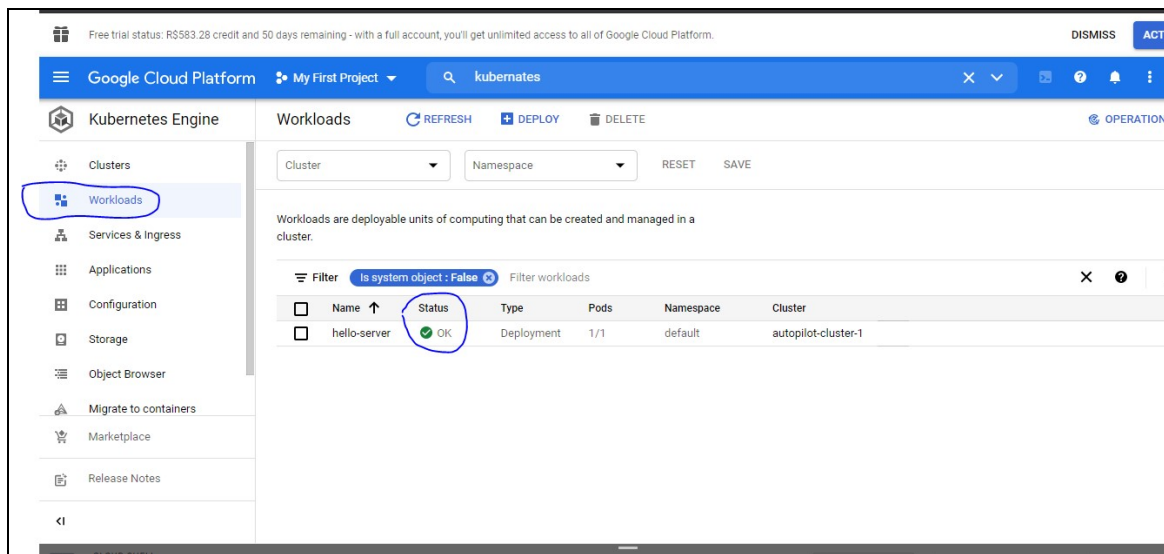
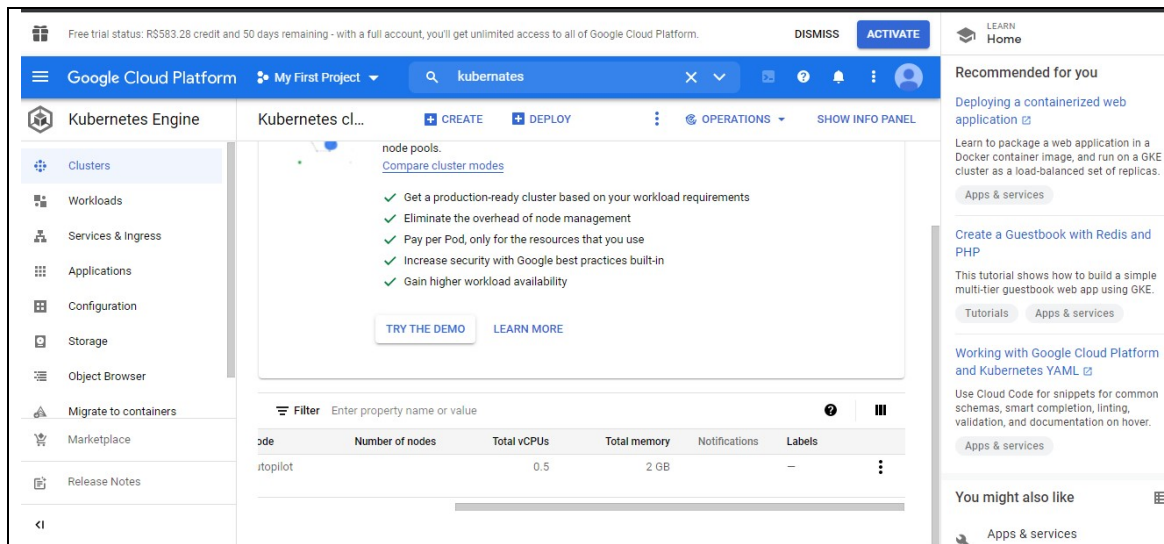
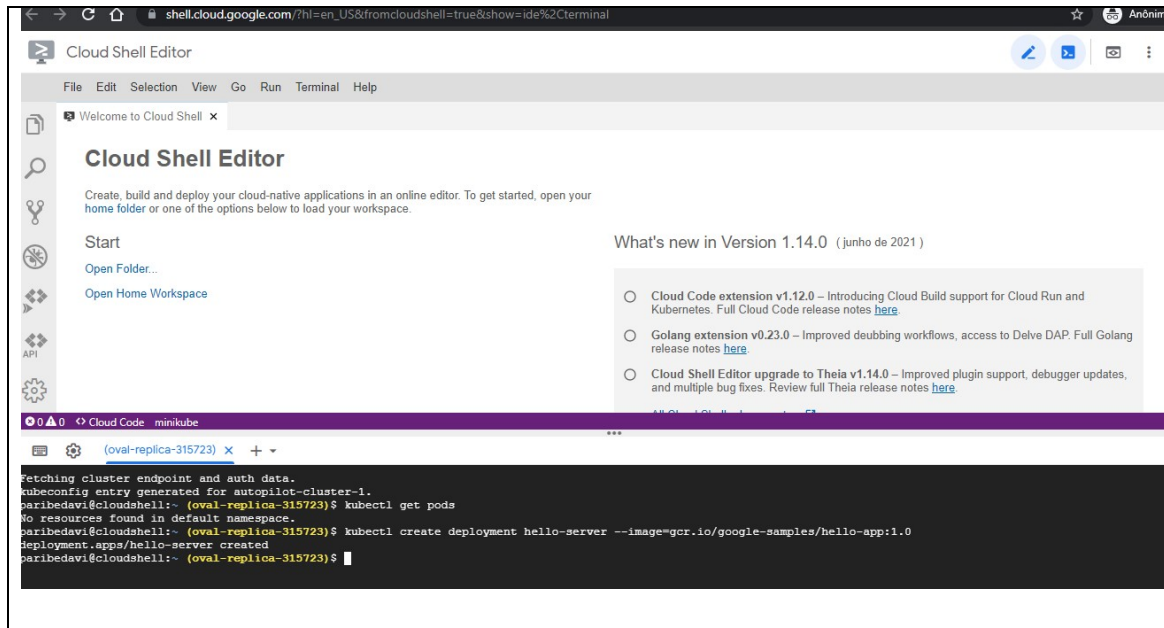
Apps & services

You might also like

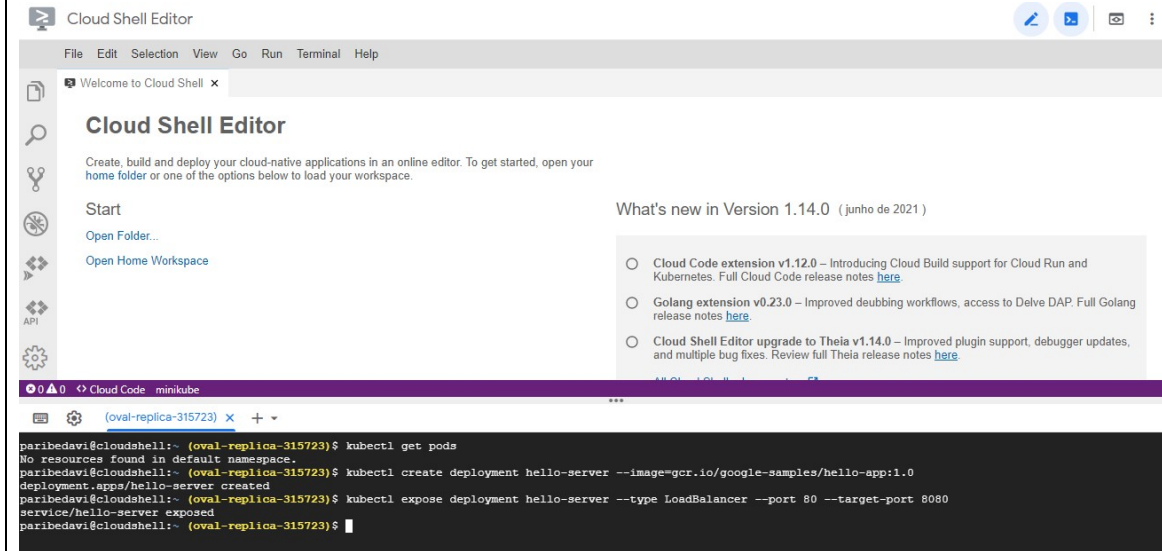
Apps & services

Setting up apps and services





Expose



Cloud Shell Editor

File Edit Selection View Go Run Terminal Help

Welcome to Cloud Shell

Cloud Shell Editor

Create, build and deploy your cloud-native applications in an online editor. To get started, open your [home folder](#) or one of the options below to load your workspace.

Start

- [Open Folder...](#)
- [Open Home Workspace](#)

What's new in Version 1.14.0 (junho de 2021)

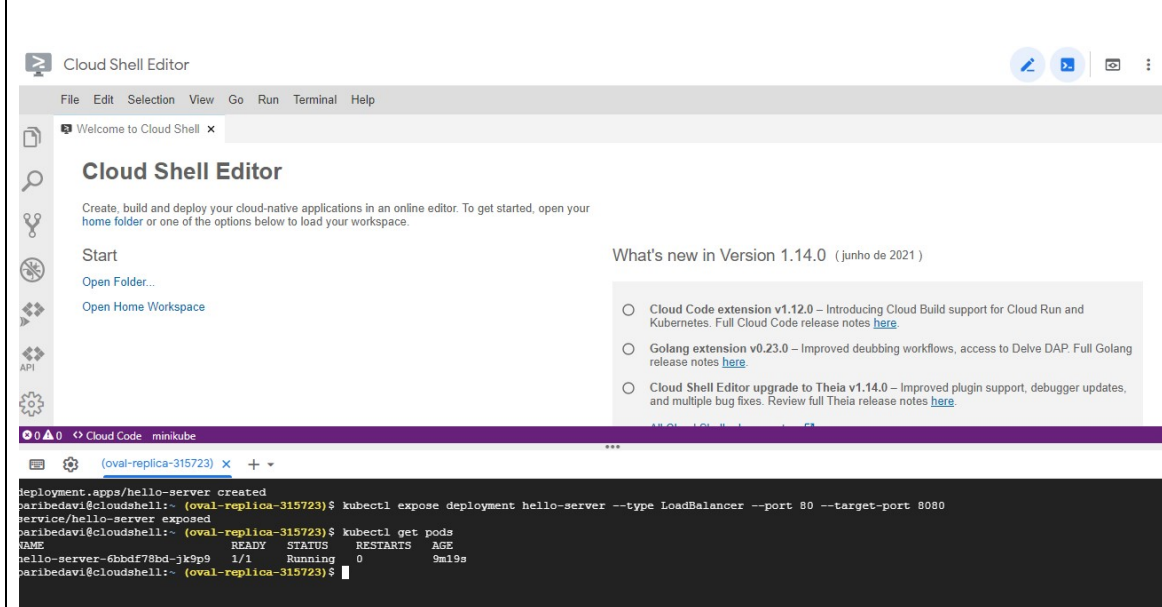
- ☐ Cloud Code extension v1.12.0 – Introducing Cloud Build support for Cloud Run and Kubernetes. Full Cloud Code release notes [here](#)
- ☐ Golang extension v0.23.0 – Improved debugging workflows, access to Delve DAP. Full Golang release notes [here](#)
- ☐ Cloud Shell Editor upgrade to Theia v1.14.0 – Improved plugin support, debugger updates, and multiple bug fixes. Review full Theia release notes [here](#)

Cloud Code minikube

(oval-replica-315723) x + -

```
paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl get pods
No resources found in default namespace.
paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl create deployment hello-server --image=gcr.io/google-samples/hello-app:1.0
deployment.apps/hello-server created
paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl expose deployment hello-server --type LoadBalancer --port 80 --target-port 8080
service/hello-server exposed
paribedavi@cloudshell:~ (oval-replica-315723)$
```

Pods



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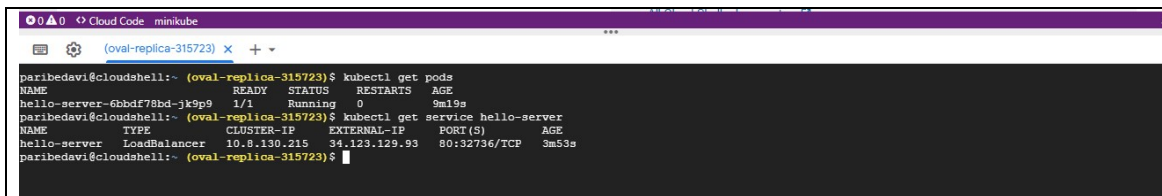
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paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl expose deployment hello-server --type LoadBalancer --port 80 --target-port 8080
service/hello-server exposed
paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl get pods
NAME READY STATUS RESTARTS AGE
hello-server-6bbdf78bd-jk9p9 1/1 Running 0 9m19s
paribedavi@cloudshell:~ (oval-replica-315723)$
```

Service



Cloud Code minikube

(oval-replica-315723) x + -

```
paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl get pods
NAME READY STATUS RESTARTS AGE
hello-server-6bbdf78bd-jk9p9 1/1 Running 0 9m19s
paribedavi@cloudshell:~ (oval-replica-315723)$ kubectl get service hello-server
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
hello-server LoadBalancer 10.8.130.215 34.123.129.93 80:32736/TCP 3m53s
paribedavi@cloudshell:~ (oval-replica-315723)$
```

Navegador

