Testing User Workloads in a Kubernetes Deployment: Robot-Shop

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Introduction

What did we want to learn?

We are aware that using **containers** is ideal to ship different services.

In combination with the Cloud they make for easy deployment and testing.

We want to observe how these kind of applications when under different workloads.

A sandbox.

What is Robot-Shop?

Stan's Robot Shop is a sample microservice application you can use as a sandbox to test and learn containerised application orchestration and monitoring techniques.

We chose it due to not wanting to spend too much time on development.

Rather test the deployment and run tests.

Objectives

What did we want to learn?

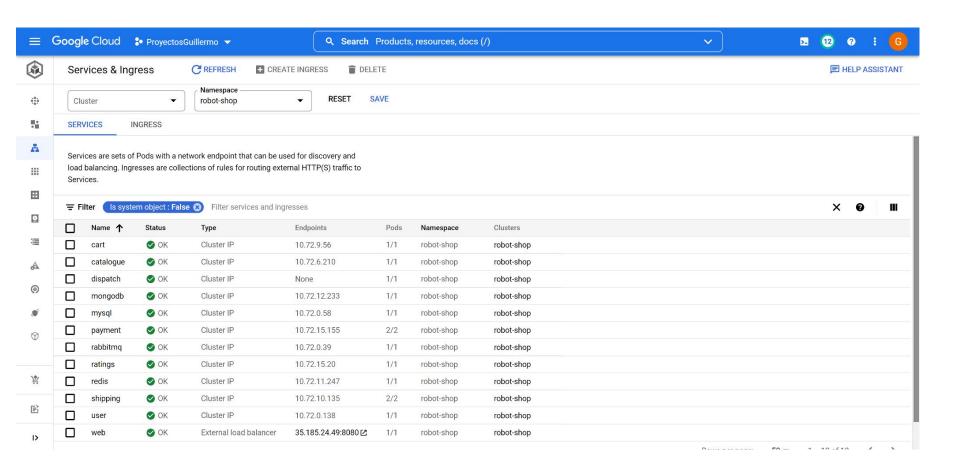
As a **general** objective:

Observe how a multi-service application manages different amounts of users in a kubernetes environment

This was achieved through the following specific objectives:

- Deploying a multi-service application in a Cloud environment.
- Simulating different workloads and the auto-scaler.
- Observe their monitoring techniques and perform a visually analysis.

Methodology



guillermo_franco@cloudshell:~/robot-shop/load-gen (proyectosguillermo)\$./load-gen.sh -n 20 -t 5m -d Repo robotshop
Tag 2.1.0

Running 20 clients Run time set to 5m

ele5634cf53ddc82cba9beefe80f5445b1d4b7144d600045f923284c28a80839

guillermo_franco@cloudshell:~/robot-shop/load-gen (proyectosguillermo)\$

Results

