CASE STUDY

MONITORING AND KUBERNETES

A project for Sprinter

Sprinter
SPORT & STYLE

CONTACT US:
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Speak to us for a non-binding
meeting and initial consultation.

ABOUT THE PROJECT

What is Sprinter?

Sprinter opened its first shop in 1995 in Valencia. It currently has more than 150 physical shops distributed throughout the country, as well as an eCommerce sprintersports.com, where you can find everything from sports and casual fashion to materials for the practice of a multitude of sports. It also has a wide range of products from leading sports brands and a portfolio of own brands, both performance and fashion.

What is the starting point?

Sprinter needed to implement a **monitoring system** that would allow them to obtain and visualise metrics of the applications and services deployed in multiple **Kubernetes** clusters in a centralised way, as well as to **implement alerts** for the detection of incidents.

In addition, we were asked to **develop a proposal** that would be scalable to allow for future growth, and that would use **Prometheus** as its core.

ABOUT THE PROJECT

How is the problem solved?

From Geko Cloud we proposed the implementation of Thanos to allow data retention in a long-term storage (bucket) and use a scalable model of federation of the Prometheus deployed in its k8s clusters.

Likewise, for incident detection and notification, the implementation of AlertManager was proposed, and to obtain metrics, a study and implementation of the different available exporters was carried out to choose the most appropriate in each case.

Finally, for the visualisation of the metrics obtained, it was proposed to implement a set of dashboards in Grafana.

ABOUT THE PROJECT

Project development

- The first step with Sprinter was to hold some **meetings** with their team to decide the epics and split the tasks together with the project manager. In these joint meetings they made an assessment of the platform, how they had it, what they had, and what services they wanted to monitor of all their clusters they had at the time and what they needed to set up to get to what they needed.

- Once we were organised, we started with the first and most important part of the **implementation**, as it was the core of the project: the installation and configuration of Thanos and Prometheus in the master cluster along with all its components.

- Then we started to work on the **choice and implementation of the exporters** to obtain the metrics of their applications.

- With the **front-end team**, it was necessary to implement compression algorithms and automatic deployments. This involves having on-demand environments in Kubernetes for code testing.

ABOUT THE RESULTS

Improvements experienced:

- They have expanded their existing knowledge a little more, and now have a much better grasp of the technologies that have been discussed.

- As a result of the project, we have produced documentation, which we handed over to them, so they know how to manage the platform if they have to do it again, in case they have the same situation of setting up the same platform for a new cluster.

- They monitor and control their services with an alert platform “Alert Manager”.

ABOUT THE RESULTS

Technologies

Some of the tools and technologies that have been used throughout the project are: Kubernetes, Prometheus, Thanos, Grafana, Terraform, Ansible, GCP, GIT...

Cutomer feedback

"*The relationship with the Geko team could not be more satisfactory, from the first moment they understood our need and have known how to adapt to our way of working by contributing their vision and good practices, now we have greater control over the monitoring of our infrastructure in Kubernetes and the ability to scale seamlessly.*" – ***Jorge Roberto Martínez, Devops Team Leader***

Contact us for further information in:
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