

Professional experience

July-April 2021-now **Senior SRE (full remote)**, Quix, London.

Working at Quix, I have been maintaining pipelines in Azure DevOps, creating, maintaining, and monitoring AKS and EKS clusters. Additionally, I have been developing for its deployment on AWS Marketplace and assisting in achieving ISO 27001 compliance.

- Design CI/CD and with it monitor and build applications with Azure Devops and Github actions pipeline.
- Creation of Helm charts for the deployment of applications on Kubernetes.
- Creation of infrastructures in AWS and Azure following the best practices of the AWS and Azure Well-Architected Framework.
- Assistance and review of information systems policies in accordance with ISO 27001 to support certification.
- Development of an application packaging product using Ansible and Helm for one-click installation.
- Implementation of ArgoCD as a CD system to scale deployments to more clusters in less time.
- Develop and maintain scripts made in different languages such as Python, Bash or Golang.
- Implementation of security scanners in pipelines to detect vulnerabilities in a timely manner.

July-April 2017-2021 **Devops/SRE**, PodGroup (now Giesecke+Devrient), Seville.

Working at Pod Group (now Giesecke+Devrient) I am being the main responsible for maintaining the infrastructure and ensuring it to have high ability. Furthermore my responsibilities include the followings:

- Design CI/CD and with it monitor and build applications with Jenkins and Bitbucket pipeline.
- Build secure containers following best practices for getting applications to production.
- Build large scale systems in AWS using the main services as EKS, EC2, VPC, RDS, ECS, S3, ECR, DocDB, SQS, SNS, Lambdas and more.
- Profile the application with load automated tests.
- Build the infrastructure with infrastructure as code with Terraform, using workspaces to have several environments and several clouds/VPS providers (such as AWS, Azure, Digital Ocean or Linode), implementing/using some modules to reuse it in the future, and using S3 as a backend to synchronize the state.
- Implement Kubernetes in AWS using EKS over EC2 machines. Manage, support, and operate the Kubernetes cluster in production with around 20 microservices and manage a big amount of requests. These deployments have been designed according to the necessity of the availability of the service provided.
- Develop and maintain scripts made in different languages such as Python, Bash, Nodejs or Golang.
- Constant contribution in services based on REST API and developed in Golang, Nodejs or Golang.
- Automate large database with Orchestration engine mainly Ansible.
- Involved in agile methodology.

October-2016 **Assistant technician**, ISA. Research Group, University of Seville.

June 2016-2017 In my role my main responsibility included the testing of the applications' scalability of in cloud as AWS, Openstack, Google cloud and kubernetes. Further responsibilities included the followings:

- Measure the elasticity of an application in certain environments.
- Design a rating quota of APIs according to an SLA.
- Study of performance of different database, such as Mongo and Elasticsearch.

October-2015 **Sysadmin**, Enreda, Seville.

October 2015-2016 My main responsibility involved Linux administration and containerized web applications for releasing in production environment. Further responsibilities included the followings:

- Administration and configuration of webpages such as Drupal, Wordpress, Django projects or Redmine over Apache or Nginx.
- Administration and configuration of Load balancers in HAproxy or Nginx.
- Responsible for clusters such as Mysql.
- Monitor the status of the webpage using some tools as Nagios, Munin or Zabbix.
- Administrator of some servers with services as Bind9, OpenLDAP or Bacula .
- Automate task with scripts with Bash or Python.

March-June 2013 **Sysadmin**, Protalia, Alcalá de Guadaira(Seville).

2013 Maintenance of infrastructures. Server administration and monitoring, network management and backups.

March-June 2011 **Computer technician**, Protalia, Alcalá de Guadaira(Seville).

2011 Repair and manipulation of computers, creation of webs through platforms and web positioning.

Education

- 2019–2020 **Data Software engineering Master Degree**, *Computer Engineering Faculty*, University of Seville.
- 2017–2018 **CyberSecurity Master Degree**, *Engineering Faculty*, University of Seville.
- 2013–2017 **Degree in computer engineering - Information technologies**, *Computer Engineering Faculty*, University of Seville.
- 2011–2013 **System and Network Administrator**, *IES Gonzalo Nazareno*, Dos Hermanas (Seville).
- 2008–2011 **Microcomputer systems and networks**, *IES Cristobal de Monroy*, Alcalá de Guadaíra (Seville).

Courses

- 2016 **Bitnami Bootcamp**, *Cloud Computing systems administration*.
- Linux system Administration
 - Security Management
 - OpenSource Tools: Phabricator, Git
 - Deployment, management, configuration and maintenance of servers: Apache, Nginx, ,Mysql, Passenger, Tomcat
 - Virtualization: OpenStack
 - Deployment on public Cloud Computing systems: AWS, Azure, GCE

Skills

Distributions Debian, Centos, Ubuntu and Amazon images.

Languages Python, NodeJS, Go, Bash.

Databases Relational (MySQL, PostgreSQL) and Nosql (Mongo, Redis, ElasticSearch, Cassandra)

Services Administration of services like LDAP, DHCP, DNS, KERBEROS, Apache, Nginx, Squid, Postfix, Active Directory, proftpd or OpenVPN.

APIs Managing through Markup languages (XML, JSON, YAML) from NodeJs, Python

Cloud IaaS (Google Clod, AWS, Azure)

Scripting Bash, Python, NodeJS, GoLang

Monitoring Nagios, Munin, Prometheus, ELK Environment, Newrelic, FluentD

Security Iptables, nftables, SIEM, pfSense, Linux Audit, Trivy, WAF

Networks VLANs, Vnet, VPC

Version control

Automation Ansible, Terraform, AWS CDK, Pulumi

Devs Envs Vagrant, Telepresence, Skaffold

Containers Docker, Kubernetes, Docker-compose, ECS

CI/CD Jenkins, Bitbucket Pipeline, Gitlab Actions, Azure Devops, ArgoCD

Logs Elasticsearch, InfluxDB, Prometheus, FluentD, Cloudwatch

Visualization Kibana, Grafana, Loggly

Languages

Spanish mothertongue

English Advanced skills