



# Álvaro Linares Cabré

Cloud & DevOps Engineer / Kubestronaut / Kubernetes, AWS & Terraform Instructor

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## 01 PROFILE

Cloud and DevOps Engineer specialising in Kubernetes, AWS and Infrastructure as Code, with nine years building and operating cloud-native platforms for enterprise clients and a deep prior background in Linux systems and networking (CCNA, RHEL/KVM). Currently at GFT Technologies running the AWS infrastructure behind a production GenAI conversational service for BBVA, serving 30,000 agents. Kubestronaut — holder of all five CNCF Kubernetes certifications. Also a technical instructor in Spanish, delivering CKA/CKAD/CKS certification preparation and DevOps and cloud bootcamps.

## 02 CORE STACK

|                |                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Cloud          | AWS (EKS, EC2, Lambda, App Runner, API Gateway, DynamoDB, Kinesis, S3, RDS, ECS, ELB, VPC, EBS, IAM, CloudTrail, PrivateLink)             |
| Containers     | Kubernetes (vanilla and EKS), Docker, Helm                                                                                                |
| IaC & CI/CD    | Terraform, TFCDK (Python), CloudFormation, Ansible, GitHub Actions, Jenkins, GitLab CI                                                    |
| GenAI / LLM    | LLM API integration (OpenAI), serverless application infrastructure on AWS, event streaming for prompt/response logging                   |
| Languages      | Python (FastAPI, Django, Flask), Bash, Go                                                                                                 |
| Networking     | VPC design, routing & switching, load balancing (HAProxy, ALB), VPN/DMZ                                                                   |
| Lab & teaching | Kubernetes networking internals (CNI, Cilium/Calico, BGP peering, MetalLB), Istio service mesh, Kyverno policy enforcement, ArgoCD/GitOps |

## 03 EXPERIENCE

**GFT Technologies** · Madrid (remote) Jan 2026 – Present

**DevOps Engineer** · Client: BBVA — tier-1 retail bank

- Own the AWS infrastructure of a production LLM-based conversational assistant serving **30,000 internal agents**, sustaining an end-to-end latency target of **under 30 seconds** across the full request path.
- Serverless architecture on App Runner, Lambda, API Gateway, DynamoDB, Kinesis and S3, with OpenAI as the model provider and a Python application layer built on FastAPI and httpx.
- Full prompt/response traceability streamed through Kinesis, meeting audit and traceability requirements for a regulated banking environment.
- Delivery automation with GitHub Actions and CloudFormation.

**Paradigma Digital** · Madrid (remote) Feb 2017 – Dec 2025

**Cloud Engineer** · cloud consultancy, enterprise clients

- Led the migration of the on-premise Kubernetes estate — **6 vanilla clusters** — to **AWS EKS**, covering cluster architecture, workload cutover and IaC rewrite.
- Designed and operated the Kubernetes platform across EKS and on-premise Linux clusters: **4–6 clusters, 6–8 nodes each**, as the sole engineer responsible for the platform within a **12-person delivery team**.
- Delivered and operated AWS infrastructure for **~12 enterprise clients** across telecommunications, retail and other sectors, using Terraform and Ansible.
- Infrastructure as code with **Terraform and TFCDK in Python**, standardising environment provisioning across projects.
- Authored Helm charts from raw Kubernetes manifests, replacing hand-rolled deployments with a versioned, repeatable application lifecycle.
- Day-to-day AWS administration across EC2, S3, ELB, VPC, RDS and EBS; MySQL and PostgreSQL estates on Amazon RDS; Kubernetes and Docker administration in cloud environments.
- Python development: Lambda functions and internal services (Django, Flask) supporting client delivery.

**Technical Instructor** · DevOps, Cloud & Kubernetes 2021 – Present

**Immune Institute** · **KeepCoding** · **CAS Training** · **CICE** · **AEPI** · Spanish-language programmes

- Deliver intensive DevOps and cloud bootcamps covering AWS, Kubernetes, CI/CD, IaC and cloud security; mentor cohorts of working professionals moving into cloud-native roles.
- Delivered CNCF certification preparation courses — **CKA, CKAD and CKS** — at CAS Training (Jul 2025).
- Author and maintain the hands-on lab curriculum: a **13-module AWS certification lab library** (security, networking, serverless, containers), plus multi-level programmes on KVM/libvirt private cloud and Python.
- Build and maintain lab environments covering Kubernetes networking internals (CNI, Cilium/Calico, BGP peering, MetalLB), Istio service mesh, Kyverno policy enforcement and GitOps with ArgoCD.
- CICE** (Mar 2021 – Dec 2022) — Profesor titular, Máster en Cloud Computing: AWS and Google Cloud modules. **AEPI** (Oct 2022 – May 2023) — Python and PostgreSQL programme, including curriculum design and course materials.

### Senior Systems Administrator

- Administered RHEL/KVM virtualisation at scale (200+ VMs).
- Automation with SaltStack and Ansible; built centralised YUM repositories and custom Bash/Python maintenance tooling.

### BEEVA

Jun 2015 – Sep 2016

### Senior Systems Administrator

- AWS instance provisioning and lifecycle administration; RDS database administration.
- Deployed AWS Storage Gateway; administered IAM, Security Groups and AWS WorkSpaces.
- Managed mixed Windows Server 2008/2012 and Linux (RHEL, CentOS, Debian, Ubuntu) estates.

### BQ

Jan 2015 – Jun 2015

### Senior Systems Administrator

- Linux systems administration on AWS; MySQL/PostgreSQL and Atlassian suite administration.
- Automated provisioning with Bash and PHP scripting and Jenkins pipelines.

### HispaWeb

Sep 2014 – Dec 2014

### Systems Integrator

- Installed and configured HP/Dell servers (RAID, iLO), KVM and Hyper-V virtualisation.
- Performance tuning across Apache, MySQL, DNS, IPTables, HAProxy, Varnish and SVN.

### Earlier career

1996 – 2014

- Ten years as a technical instructor at **CENTEC** (Linux, Windows Server, Cisco networking, VPN/SSH/SSL security, PHP and JavaScript), preceded by systems integration and infrastructure roles at Corvus, Optime Consulting, Amplexus Corporation, HardSoft and Lantech — Novell/Windows server environments, Cisco routing, structured cabling, LAN/WAN design, VoIP and DMZ implementation. Full detail available on request.

## 04

### PROJECTS & WRITING

### VPN & BGP multi-cloud — hands-on lab repository

Hub-and-spoke multi-cloud VPN with dynamic BGP routing between providers, published with a full step-by-step build guide in the repository wiki.

[github.com/alvarolinarescabre/vpn-bgp-multi-cloud](https://github.com/alvarolinarescabre/vpn-bgp-multi-cloud)  
[youtube.com/watch?v=Hh1qp3n9SMw](https://youtube.com/watch?v=Hh1qp3n9SMw)

### Articles — Paradigma Digital engineering blog

- Viaje hacia las certificaciones de Kubernetes
- Cómo obtener la certificación Terraform Associate
- Puedo prometer y Prometheus
- Cómo hacer bases de datos con Peewee
- Divide y vencerás
- Yo, Python

## 05

### CERTIFI- CATIONS

**Kubestronaut** — CKA • CKAD • CKS • KCNA • KCSA, all five CNCF Kubernetes certifications, obtained 2025. [cncf.io/training/kubestronaut](https://cncf.io/training/kubestronaut)

### ALSO CURRENT

SUSE Certified Linux Engineer

2016 • no expiry

PCEP — Entry-Level Python Programmer

2019 • no expiry

### PREVIOUSLY HELD

AWS Certified Solutions Architect – Professional

2022 – 2025

HashiCorp Certified: Terraform Associate

2023 – 2025

## 06

### EDUCATION & LANGUAGES

**Master's in Python Programming (MPP)** • CICE — Madrid, Spain

2022

**FP Desarrollo de Aplicaciones Web (DAW)** • CEAC — Madrid, Spain

2016 – 2017

Spanish — Native • English — B2