

Antoine Chiris

Freelance DevOps & Sovereign Cloud Architect

9 years of experience

CKA · CKS · DCA

PACA region (France), remote-first

kactica.com

linkedin.com/in/antoine-chiris

github.com/chichi13

PROFILE

I help SaaS scale-ups and major French companies build industrialized, reliable and teachable cloud-native platforms on GCP, Scaleway and Kubernetes. Three areas: consulting & build (Kubernetes, GitOps, IaC), sovereign cloud migration (NIS2, DORA, HDS) and DevOps training with CKA, CKS and DCA certification preparation.

AREAS OF EXPERTISE

- Cloud & infrastructure** : Multi-cloud architecture: GCP, Scaleway, OVHcloud, Azure, Hetzner · Kubernetes & Docker Swarm · Terraform, Terragrunt & Ansible · Infrastructure overhauls and cost reduction (up to -50%)
- DevOps & automation** : GitOps with ArgoCD, GitHub Actions and GitLab CI pipelines · Observability: Prometheus, Grafana, Loki, Elastic · Scripting and internal tooling: Python, Bash, Go
- Sovereignty & compliance** : Sovereign clouds: Scaleway, OVHcloud, GCP Assured Workloads · NIS2, DORA, HDS guidance and Cloud Act exit planning · Classified and segmented environments
- Security** : CIS Benchmark hardening, rootless and read-only images · IAM, RBAC and secrets management · OWASP best practices and defense in depth
- Web3 & blockchain** : Cosmos, Ethereum, DVT validators: 0 slashing, 0 jail · L2 sequencers: Arbitrum, Kroma · Nodes, bridges and high availability
- Development** : Python: FastAPI, Flask, Click, SQLAlchemy, Pydantic · Web: Vue.js, Nuxt · AI agents for engineering: Claude Code, Codex

TECHNICAL ENVIRONMENT

CONTAINERS & ORCHESTRATION		IAC, GITOPS & CI/CD	
Kubernetes	★★★★★	Terraform	★★★★★
Docker	★★★★★	Terragrunt	★★★★★
Docker Swarm	★★★★★	ArgoCD	★★★★★
Helm	★★★★★	Ansible	★★★★★
		GitLab CI	★★★★★
		GitHub Actions	★★★★★

CLOUD

GCP	★★★★★
Scaleway	★★★★★
OVHcloud	★★★★★
Hetzner	★★★★★
Azure	★★★★★
OpenStack	★★★★★

DEVELOPMENT

Python (FastAPI, Click)	★★★★★
Bash	★★★★★
Vue.js / Nuxt	★★★★★
Go	★★★★★

WEB3 & BLOCKCHAIN

Validateurs Cosmos / Ethereum	★★★★★
Séquenceurs L2 (Arbitrum, Kroma)	★★★★★

LEGEND : ★ Awareness · ★★ Occasional practice · ★★★ Regular practice · ★★★★ Advanced · ★★★★★ Expert

OBSERVABILITY

Prometheus	★★★★★
Grafana	★★★★★
Loki	★★★★★
Elastic Stack	★★★★★
Sentry	★★★★★
Centreon	★★★★★

SYSTEMS & NETWORKING

Linux (Debian, Rocky)	★★★★★
Réseau (Cisco, Juniper)	★★★★★
Sécurité (CIS Benchmark, RBAC)	★★★★★

EDUCATION

- CKS · Certified Kubernetes Security Specialist**
The Linux Foundation
- CKA · Certified Kubernetes Administrator**
The Linux Foundation
- DCA · Docker Certified Associate**
Docker / Mirantis
- 2019 · Master's degree in Computer Science & Networks (apprenticeship)**
École des Mines d'Alès
- 2016 · Two-year technical degree in Networks & Telecommunications**
IUT d'Aix-Marseille

ENGAGEMENT DETAILS

LANGUAGES

- French** : Native
- English** : Professional working proficiency
- Spanish** : Limited working proficiency

AVAILABILITY

Available: **Contact me**

ROLE DESCRIPTION

Scality deploys its RING object storage solution for defense-sector customers, on classified sovereign environments where every manual step is both a risk and a cost.

My mission: make this deployment fully automated and reproducible, from infrastructure provisioning down to the system and network configuration of the storage nodes.

Sovereign Infrastructure as Code

Terraform modules for GCP Assured Workloads (an S3NS-equivalent foundation).

OpenStack deployment on OVHcloud (OPCP) for sovereign environments.

Instance provisioning fully driven by Cloud Init.

Automation and system foundation

Deployment scripts guaranteeing a 100% automated install, with zero manual intervention.

System and storage configuration: Rocky Linux, RAID.

Networking: LACP link aggregation and strict environment segmentation.

KEY RESULTS

- ✓ Solution install reproducible identically across every customer environment.
- ✓ Zero manual intervention: the full deployment is scripted end to end.
- ✓ Meets the requirements of classified defense-sector environments.

TECHNICAL ENVIRONMENT : Terraform, GCP Assured Workloads, OpenStack, OVHcloud, Scality RING, Rocky Linux, Cloud Init, Bash

ROLE DESCRIPTION

SkipCall ran its SaaS platform on Vercel and Railway, two US-based PaaS providers. To regain control over its data and costs, the company decided to repatriate its entire infrastructure to Scaleway, the French sovereign cloud.

I designed the target architecture, then drove the migration end to end: from the first Terraform module to the production cutover, with a security-audited architecture as a hard requirement.

Scaleway cloud architecture

Production-ready managed Kubernetes cluster (Kapsule), hardened and monitored.

Private network with VPN access: no unnecessary exposure surface.

S3-compatible Object Storage and managed PostgreSQL instances.

Centralized secrets management with External Secrets Operator.

GitOps and continuous delivery

ArgoCD as the single source of truth for every deployment.

Gateway API for routing (replaces the deprecated Ingress).

Automated TLS certificates with Cert Manager.

Monitoring, logs and alerting centralized in Cockpit.

Infrastructure as Code

Terraform and Terragrunt for DRY multi-environment management.

Reusable modules and strict environment separation.

KEY RESULTS

- ✓ Platform fully moved off US PaaS providers, now hosted on a French cloud.
- ✓ Security-audited Kubernetes architecture, 100% described as Infrastructure as Code.
- ✓ GitOps continuous delivery: teams deploy without manual intervention.

TECHNICAL ENVIRONMENT : Scaleway, Kubernetes (Kapsule), Terraform, Terragrunt, ArgoCD, Gateway API, External Secrets, Cert Manager, PostgreSQL, Cockpit

ROLE DESCRIPTION

Since late 2023, I have been remotely training teams from major French companies in DevOps technologies through the Sparks training organization: Docker, Kubernetes, CI/CD and Infrastructure as Code.

Trained companies include Sopra Steria, Renault, Dassault Systèmes, Chronopost and Orange Business Services. Sessions are intensive (2 to 3 days) and hands-on, built around production-like scenarios.

Topics taught

Docker and preparation for the DCA certification (Docker Certified Associate).

Kubernetes: administration (CKA) and security (CKS).

CI/CD and Infrastructure as Code applied to real-world enterprise cases.

Teaching approach

Systematically hands-on: every concept is practiced in a lab exercise.

Production-like scenarios: outages, debugging and hardening under realistic conditions.

Focused preparation for the CKA, CKS and DCA certification exams.

KEY RESULTS

- ✓ Teams from 5 major French companies trained and made autonomous.
- ✓ Being CKA, CKS and DCA certified myself, I teach exams I have personally passed.

TECHNICAL ENVIRONMENT : Docker, Kubernetes, CI/CD, Infrastructure as Code, DCA, CKA, CKS

ROLE DESCRIPTION

My Stream Agenda is the calendar for streams and esports events (League of Legends, Valorant, CS2, Rocket League, Overwatch 2), mainly for the French-speaking market. I built it and run it alone, from product to infrastructure.

It is my full-stack showcase: what I recommend to my clients, I apply to my own production platform.

Product and development

Python / FastAPI backend: scheduler, notifications, gamification, automated emails.

Nuxt 3 frontend with server-side rendering for SEO.

Mobile app with a multilingual ASO strategy (FR, EN, ES).

Infrastructure and operations

Fully automated Docker Swarm infrastructure, maintained solo.

Dev and prod CI/CD with release pipelines.

Commercial partnership with Instant Gaming.

KEY RESULTS

- ✓ 20,000 monthly visitors on an infrastructure operated by one person.
- ✓ From idea to a sustainable product: design, code, infra, SEO/ASO and partnerships.

TECHNICAL ENVIRONMENT : Python, FastAPI, Nuxt 3, Docker Swarm, CI/CD, App mobile

ROLE DESCRIPTION

Optimum Automotive needed to migrate a legacy C# application to React, a project too large to handle screen by screen manually. The chosen approach: industrialize the migration with AI agents.

I designed the agents and tooling, framed the conversion patterns, then transferred the skills to the in-house team so they could drive the rest of the migration on their own.

AI agents and tooling

- Specialized agents and skills dedicated to translating C# code into React.
- Automated pipeline: source-code analysis, component generation, iteration on uncovered cases.
- Framed conversion patterns and validation rules for the generated code.

Team training and autonomy

- Developer training on using and maintaining the agents.
- Workflow documentation so the migration can continue in-house.

KEY RESULTS

- ✓ Industrialized migration: screens are converted by the agents, the team validates.
- ✓ In-house team fully autonomous on the AI tooling by the end of the engagement.

TECHNICAL ENVIRONMENT : Claude Code, Codex, Agents & skills, C#, React

ROLE DESCRIPTION

LumisPay was building a Web3 payments platform PoC. It needed a solid cloud architecture for the application, plus a properly operated blockchain infrastructure: nodes, bridges, high availability.

I designed the PoC-phase target architecture and deployed everything, application and blockchain alike, as Infrastructure as Code.

Cloud architecture

Target architecture design for the PoC phase.

Deployment of a secured cloud environment.

Infrastructure as Code and automated deployment pipelines.

Blockchain infrastructure

Deployment and operation of blockchain nodes.

Setup of cross-chain bridges.

Monitoring and high availability across the stack.

KEY RESULTS

- ✓ PoC delivered on a secured, reproducible and monitored infrastructure.
- ✓ Nodes and bridges operated continuously for the whole engagement.

TECHNICAL ENVIRONMENT : Cloud, Infrastructure as Code, CI/CD, Nøuds blockchain, Bridges, Monitoring

ROLE DESCRIPTION

RealAdvisor Finance needed clean cloud foundations for its platform, fast: genuinely isolated environments and secured access, with no unnecessary complexity.

A short, focused engagement: an architecture sized to the actual need, delivered in one month.

Delivered

Multi-environment Azure architecture: strictly isolated production and staging.

Dokploy deployment for application orchestration.

VPN for secured access to the environments.

KEY RESULTS

- ✓ Turnkey cloud foundations delivered in one month, operable without me.

TECHNICAL ENVIRONMENT : Azure, Dokploy, VPN

ROLE DESCRIPTION

Node Guardians operates validators for many blockchains. In this business, any downtime is paid for in on-chain penalties (slashing, jail): the infrastructure has to be highly available, secure and cost-effective all at once.

I designed the new multi-cloud architecture, migrated the entire legacy infrastructure, and built the team's internal Python tooling.

Multi-cloud infrastructure

- Architecture spread across GCP, OVH and Hetzner for resilience and cost.
- Full migration off the legacy infrastructure without interrupting the validators.
- Production Kubernetes clusters: deployment, hardening, operations.
- Terraform and Ansible IaC with custom modules; GitHub Actions CI/CD.
- Proactive observability: Prometheus, Grafana, Loki, Sentry.

Web3 validators

- Cosmos ecosystem: Cosmos Hub, Osmosis, Axelar, Kyve, Celestia, dYdX.
- Ethereum: highly available validators with client diversity.
- Layer 2: Kroma and Arbitrum sequencers; other chains: Avalanche, SUI, Aligned Layer.

Internal Python tooling

- Internal CLIs and APIs: Click, Pydantic, SQLAlchemy, FastAPI.
- PEP8-compliant code with a testable architecture.

KEY RESULTS

- ✓ Infrastructure costs cut in half despite a growing workload.
- ✓ Zero slashing and zero jail for the entire engagement, thanks to a resilient architecture and proactive monitoring.

TECHNICAL ENVIRONMENT : Kubernetes, Terraform, Ansible, GCP, OVH, Hetzner, GitHub Actions, Python, Prometheus, Grafana, Loki

ROLE DESCRIPTION

Probance publishes a marketing automation solution operated for customers in France, Japan and Canada. For over three years, I industrialized its infrastructure and processes: containerization, CI, observability and automation.

Containerization and security

CIS Benchmark-compliant Docker Swarm cluster, with team training and internal documentation.

Hardened Docker images: read-only, rootless, reduced capabilities.

CI and observability

Self-hosted GitLab with continuous integration for the whole team.

Elastic stack (Elasticsearch, Logstash, Kibana) with technical and functional training.

Centreon monitoring with custom check development.

Development and support

Python development: Flask, FastAPI, SQLAlchemy, Bash scripting.

Technical support for the solution across three continents (Japan, Canada, France).

Industrialization projects: automating recurring tasks, process overhauls.

KEY RESULTS

- ✓ A containerized, CIS-benchmarked and documented platform, run by a trained team.
- ✓ Manual processes replaced by automation across the whole chain.

TECHNICAL ENVIRONMENT : Docker Swarm, GitLab CI, Elastic Stack, GCP, Python, FastAPI, Centreon, Bash

ROLE DESCRIPTION

Three years of apprenticeship in Orange Business Services' Expert Support department, alongside my engineering degree at École des Mines d'Alès. That is where I built my networking foundation, the one that makes the difference today when a Kubernetes cluster needs debugging at L3.

Network support and operations

Level 2 network support on Cisco, OneAccess and Juniper equipment.

SIP voice migration troubleshooting in support of the national project.

Internal trainer on various network technologies.

Tooling and automation

Network pre-diagnosis script for after-sales support, written in PERL.

Business application to check and fix router/switch configurations: Python, Flask, Docker, Git, PostgreSQL.

KEY RESULTS

- ✓ A solid networking foundation (routing, switching, voice) that underpins all my cloud infrastructure work.
- ✓ Even back then: automate rather than repeat: my first internal tools running in production.

TECHNICAL ENVIRONMENT : Cisco, Juniper, OneAccess, Python, Flask, Docker, PERL, Git