



Alexis Guyot

Platform Lead – Kubernetes & Data/AI Infrastructure

Technical lead of the GENES Kubernetes platform supporting research, data science and AI workloads in production. Responsible for technology strategy, architecture decisions and end-to-end deployment of GPU orchestration and on-prem Data/AI services.

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📍 France - Open to relocation

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📅 27/08/1993

🌐 <https://alexisguyot.click>

🌐 [in @guyot-alexis](#)

🐙 [GitHub @AlexisGuthix](#)

Professional Experience

From January 2024 to Present

Head of the Scientific Unit

[Groupe ENSAE-ENSAI](#) / Palaiseau, France

- Complete administration of the Onyxia platform: on-premise multi-tenant Kubernetes cluster for computing, data science and AI. 11 nodes, 1,100+ user namespaces, 700+ pods in production, 1,750+ persistent volumes post-cleanup
- Managing cluster deployments via GitOps (ArgoCD), automating internal redeployments (Drone CI). Implemented Renovate for automated dependency updates.
- Managing NVIDIA GPU nodes exposed to researchers via Onyxia for their AI/ML workloads.
- Deployment of an on-premise LLM platform (Ollama + Open WebUI) providing sovereign and controlled AI capabilities to GENES entities.
- Design and deployment of an on-premise RAG architecture: internal knowledge base, embeddings, function-calling with GLPI integration (automatic ticket creation). Deployment of multiple internal AI assistants.
- SSO Keycloak administration for all deployed services. Identity federation management via Renater (Shibboleth/SAML2). Secret management via Vault, security policies via Kyverno.
- Assessment of researcher needs, benchmarking and deployment of on-premise production services: Nextcloud, Hedgedoc, LimeSurvey, Nexus Repository.
- Creation of Docker images and Helm charts integrated into the Onyxia catalogue for self-service deployable services.
- Administration of ~20 heterogeneous research HPC servers (including GPU) and 10 HPC servers in uniform configuration. Software deployment automation via SCCM. Windows/Linux administration, ADDS/GPO, Hyper-V, LUN iSCSI, Fortinet/FortiWeb, Veeam.
- IT procurement financial management (GPU, servers, licences, software) via public procurement frameworks. Researcher needs collection and prioritisation (Product Owner). Authoring of strategic action plans on Onyxia platform continuity presented to management.
- Deputy Head of IT Transversal Unit: supervision of a multidisciplinary IT team, cross-functional project management, interface between management / IT / vendors / research teams.

From October 2017 to November 2018

IT Project Manager

[Actit System](#) / Noisy le Grand, France

- Infrastructure outsourcing for multiple clients
- Renewal of IT infrastructures for our clients
- Deployment of IPBX 3CX solutions
- Migration of mailboxes to Office 365
- Resource management and project planning
- Upskilling team members
- Working in interdisciplinary teams to achieve project goals
- Requirements gathering

From Octobre 2016 to August 2017

Information Systems Officer

[Accenture Security - Memory](#) / Saint-Cloud, France

- Design, implementation, and administration of a development infrastructure (Linux infrastructure hosted on OVH)
- Management of Office365 mail services and VPN/SSH access via PfSense
- Administration and monitoring of the Memory information system (Linux infrastructure on OVH, vSphere, Veeam)
- Deployment automation (Python/Shell/Puppet/Ansible/Docker, Jenkins/Bitbucket)
- Writing and continuous improvement of procedures (Confluence/Jira)

Contact

📄 Driving licenses A & B

🚗 Personal vehicle

✈ Worldwide availability

Specific Skills

Platform & Orchestration

Kubernetes, ArgoCD (GitOps), Helm, Onyxia, GPU orchestration, LLM on-prem (Ollama), Kubespray, Docker

Cloud & Storage

AWS, MinIO S3, Longhorn, Nextcloud

IaC & Automation

Terraform, Ansible, Puppet, Drone, Renovate

Security & Authentication

IAM, Vault, Keycloak, OIDC, SSL/TLS, Shibboleth, Kyverno

Infrastructure & Systems

Windows/Linux servers, LUN iSCSI, ADDS/GPO, SCCM, Veeam, SSL/TLS, Esxi, vSphere, Hyper-V

Monitoring & Observability

Grafana, Prometheus, Langfuse, Uptime Kuma, ELK, Loki, Fluentbit, Parseable, Robusta

Project Management & Leadership

IT team supervision, cross-functional project management & IT governance, requirements gathering & prioritization (Product Owner approach), PMP

Languages

French: Native speaker

English: C1

Interests

Motorcycle, cinematography and chess

From September
2015 to October 2016

Systems and Network Administrator

[Spie Batignolles Amitec](#) / Boulogne Billancourt, France

- Management and resolution of Level I and II incidents
- IT asset management: hardware, software, and mobile devices
- Management of file sharing and access rights
- User support and assistance
- Member of the digital steering committee
- Inventory tracking and stock management

Education & Certifications

- From 2017 to 2018 **IT Project Manager in Digital Transformation**
[Aston](#) / Arcueil, France
- From 2015 to 2017 **Master's degree in Systems and Network Engineering – Project & Management**
[CESI](#) / Nanterre, France
- From 2012 to 2014 **Two-year Technical Degree in IT Services for Organizations, Infrastructure Solutions**
[Lycée Geoffroy Saint-Hilaire](#) / Etampe, France

Certifications

PMP - Project Management Professional Certification | PMI application approved
AWS Certified Solution Architect - Associate (SAA) - 2023 August
AWS Certified Cloud Practitioner (CLF) - 2023 July
CQP Systems Administrator (ASY) - 2017 June
CQP Enterprise Network Administrator (ARE) - 2017 June

Projects

More details about architectures, procedures, and source code are available on my website: <https://alexisguyot.click/>

Kubernetes Homelab Cluster

- Set up a Kubernetes cluster using Raspberry Pi 5 to explore new technologies and make a catalog of deployable cloud-native tools/services available on demand
- Kubernetes, Docker, Helm, CI/CD, ArgoCD, Git, Onyxia, Prometheus, Vault, Keycloak, Gateway API, Kubevirt, OpenTelemetry, Rancher

Personal Website

- My main personal website is serverless and hosted on AWS (<https://alexisguyot.click/>)
- HTML, CSS, Javascript | GitHub, CodePipeline, AWS S3, Route53, CloudFront, Certificate Manager, OAC, DynamoDB, Lambda

Speedlight

- Serverless web application hosted on AWS to calculate distance based on various transportation methods, comparing it to the speed of light. Each entry is stored in a database
- HTML, CSS, Javascript, Python | AWS Amplify, AWS Lambda, AWS API Gateway, AWS DynamoDB, AWS IAM

GPS Web Application

- Serverless GPS web app on AWS allowing users to add GPS points on a map and store coordinates in a database. Includes user signup and authentication features
- HTML, CSS, Javascript | AWS Cognito, AWS IAM, AWS Amplify, AWS Lambda, AWS API Gateway, AWS DynamoDB

Terraform speedlight

- Refactoring of the "Speedlight" project as Infrastructure as Code (IaC) using Terraform, making the app fully deployable and destroyable in seconds
- HTML/CSS, Javascript, Python | Terraform, AWS S3, AWS Lambda, AWS API Gateway, AWS DynamoDB, AWS IAM