

Julien MAILLERET

Senior Site Reliability Engineer (Engineering Productivity / Release Engineering / Platform Engineering)

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SUMMARY

Senior SRE in Engineering Productivity / Release Engineering, designing and building internal developer platforms and tooling in Go and Python. Drive cross-team execution and adoption by setting standards, operating models, and technical direction for internal platforms. Experienced in large-scale build/release systems (500+ artifacts, 15+ repositories), Kubernetes/GitOps orchestration, API and infrastructure integrations, and supply chain security (code signing, artifact publishing).

Focus: internal tooling and platforms, release engineering, CI/CD platforms, Kubernetes/GitOps automation, supply chain security.

CORE SKILLS

- Cloud: AWS, GCP
- Kubernetes, Helm, Docker
- GitOps: Argo CD, Argo Workflows
- CI/CD: Buildkite, GitHub Actions, Jenkins, Tekton
- Infrastructure as Code: Terraform, Ansible, Pulumi
- Secrets management: HashiCorp Vault (consumer/integration)
- Languages: Go, Python, Bash
- Security: code signing, container security, supply chain security
- Observability: Elastic Stack
- AI-augmented development: Cursor, GitHub Copilot, Claude Code

EXPERIENCE

Elastic — Senior Site Reliability Engineer (2019-Present) — Remote (France)

- Design and build release automation and internal developer tooling in Go and Python for Elastic's build and release infrastructure.
- Automate and operate build and release infrastructure for 500+ artifacts across 15+ repositories; ship 30-60 versions/year.
- Operate Kubernetes-based GitOps deployment orchestration for Kubernetes-native and legacy services running on cloud VMs; enable self-service deployments with automated promotion across multiple cloud providers and environments.
- Manage and improve code signing for stack artifacts (GPG signing, Windows signing, macOS signing, container image signing).
- Build integrations with external systems (Red Hat Partner Registry, IronBank) to support customer distribution requirements.
- Author technical standards and design documents for release infrastructure; establish patterns adopted across Engineering Productivity.
- Participate in follow-the-sun on-call; lead incident response and RCAs for release infrastructure incidents.
- Mentor junior engineers and onboard new team members; contribute to Engineering Productivity hiring through candidate interviews and validation meetings.
- Contribute to operational excellence initiatives (e.g., alert-noise reduction).

Environment: Go, Python, AWS, GCP, Kubernetes, Helm, Argo CD, Argo Workflows, Buildkite, GitHub Actions, Terraform, Artifactory, HashiCorp Vault (consumer/integration), code signing.

Selected impact:

Infrastructure modernization:

- Led migration of stack build and release pipelines from Jenkins/Tekton to Buildkite, making key architectural decisions; designed a pipeline generator (Go + custom DSL) generating 13 pipelines for 16 teams to standardize delivery and enable reuse; reduced 20,000+ lines of YAML and improved performance by 50%.
- Reduced stack snapshots and staging build time from 8+ hours to 2.5 hours by evolving from sequential builds to parallel product builds with ephemeral CI workers, then implementing asynchronous builds.
- Improved public RPM/DEB repository rebuild time from 8+ hours to 2 hours; developed an Artifactory-based enhancement migrating rebuilds from VMs to Artifactory while maintaining S3 sync for external repositories.
- Enabled doubling the number of versions maintained and released each year, and a shift from single-release operation to running up to 4 releases in parallel.
- Reduced operational toil and delivery risk through self-service tooling, standardization, and repeatable operating patterns.

Cloud platform engineering:

- Built a Kubernetes controller in Go (custom CRD + reconciliation loop) integrating Argo Workflows to enable self-service deployments with consistent orchestration; enabled 11 teams to migrate 57 services to self-service GitOps deployments across 6 environments.

Release quality and process:

- Customer Zero: owner for coordinating internal pre-release validation across 10+ teams, enabling early testing of release build candidates.
- Operated major, minor, and patch stack releases and cloud releases; led incident response and RCAs for release infrastructure incidents (e.g., package repository and dependency ecosystem incidents).

Reliability and operability:

- Reduced alert noise and improved on-call experience through operational excellence initiatives (alert tuning, process improvements).

Partner distribution and publishing:

- Built Python automation to publish Elastic UBI container images to the Red Hat Partner Registry and IronBank.

Supply chain security:

- Manage and improve code signing for stack artifacts (GPG, Windows, macOS, container images).

Community (historical):

- Maintained Elastic public Helm charts and Ansible roles as community maintainer; drove roadmap, triaged issues, reviewed community PRs, and transitioned Helm charts from beta to GA before deprecation.

Talend — Site Reliability Engineer (2017-2019) — Nantes, France

- Managed Talend Cloud infrastructure.
- Automated application stack builds and deployments.
- Integrated microservices with the Talend Cloud platform.
- Applied infrastructure patterns for multi-tenant, multi-region, security-compliant production environments.
- Identified cloud optimizations to improve reliability and performance; shared DevOps and cloud best practices with developers.

Environment: AWS, Azure, Docker, Kubernetes; Terraform, Ansible, Puppet, CloudFormation; Python, Bash; PostgreSQL, MongoDB, Elasticsearch, Redis, Kafka; Jenkins, Maven; Elastic Stack (ELK), Prometheus, Zipkin; Scrum.

Selected impact:

- Deployed Talend Data Stewardship and Talend Data Catalog to Talend Cloud.
- Built Talend Kubernetes platform using Kubespray, Ansible, Terraform, then AWS EKS.
- Contributed to Talend Cloud Azure infrastructure setup.

Weekendesk — Lead DevOps (2015-2017) — Paris, France

- Led the production team.
- Led infrastructure changes and upgrades; automated build and deployment processes.
- Optimized infrastructure, applications, and database performance.
- Defined management processes (change, incidents, on-call); worked with development teams and QA.

Environment: AWS, Docker; Apache, Tomcat, HAProxy; Ansible, Packer, Terraform; PostgreSQL, MongoDB, Elasticsearch, RabbitMQ; Jenkins, Maven; Java, Python; Scrum.

Selected impact:

- Migrated infrastructure from on-premises to AWS.
- Improved infrastructure to handle TV campaign traffic spikes (load testing, application tuning, autoscaling, CDN caching).
- Built a customized deployment tool using Python.
- Internalized infrastructure hosting management and set up a 24/7 on-call duty process with developers on call.
- Deployed a Kubernetes POC cluster on AWS using kOps.

AXA Technology Services — Middleware Engineer (2013-2015) — Paris, France

- Worked for AXA Banque.
- Managed Unix server upgrades/changes (150 Linux, 50 AIX) and Tomcat/WebSphere application installation and day-to-day administration.
- Improved monitoring, backup, and deployment; contributed to incident resolution and 24/7 on-call support.
- Tech lead for projects (<40 person-days).

Environment: Unix (AIX, Red Hat Linux); WebSphere middleware (WAS, ESB, WMQ); Web (Apache, Tomcat); NoSQL (MongoDB); ITIL and Lean methodologies.

Selected impact:

- Implemented dedicated, isolated infrastructure for AXA Banque “Soon” (pilot digital offer) (Tomcat, MongoDB, MySQL, Chef, Git).
- Migrated AXA Banque WebSphere MQ platform (upgrade, architecture consolidation, HA).

AXA Technology Services — Unix System Engineer (2008-2013) — Paris, France

- Worked for AXA Assistance, AXA Banque, and Direct Assurance.
- Owned Unix server and SAN upgrades/changes (120 Linux, 60 AIX); automated day-to-day administration tasks.
- Performed troubleshooting and performance tuning; handled incidents; led technical projects (<40 person-days); contributed to 24/7 on-call support.

Environment: Unix (AIX, Red Hat Linux); SAN (IBM); WebSphere WAS; Centreon; TSM; ITIL.

Selected impact:

- Implemented server administration tools and processes to scale infrastructure up to 180 servers (installation, user management, application deployment: Apache, Tomcat, WebSphere).
- Implemented monitoring (Centreon), backup (TSM), and patching (RHN) solutions.

AXA Technology Services — System Administrator Apprentice (2007-2008) — Paris, France

- Worked for AXA Banque.
- Managed Unix servers (AIX, Solaris, Red Hat) and supported day-to-day operations/administration.
- Participated in AXA Banque website migration (insourcing hosting infrastructure and CMS migration).

AXA Banque — Network & System Administrator Apprentice (2004-2007) — Paris, France

- Managed Unix servers (AIX, Solaris), network (Cisco), and firewall (Checkpoint).
- Supported AXA Banque applications day-to-day operations/administration.
- Participated in AXA Banque extranets and firewall consolidation projects.

EDUCATION

- Master 2, Information System Management — ITIN-ESCIA (2007-2008) — Cergy, France
- Master 1 & BTS, IT Management — ITIN-ESCIA / ISIMI (2003-2007) — Paris/Cergy, France