

Aurélien Campergue
München Obermenzing
aurelien.campergue@protonmail.com

Senior SRE / DevOps Engineer

Specialties: Kubernetes, Docker, Linux, Java, Maven, Ansible

Skills Summary

| Domain | Skills |
|-----------------------------------|---|
| Virtualization & Containerization | Kubernetes , Openshift, Docker , AWS, KVM, LXD, LXC, Swarm, DC/OS, Packer, Vagrant, VMWare |
| GitOps & Deployment | Ansible , Helm , Helmfile, ArgoCD , Puppet, Preseed, Kickstart |
| OS | Debian , Ubuntu , Mint, Manjaro , Archlinux , CentOS, RedHat, Fedora, OPNSense (fork PFSense), Truenas (ex Freenas), PFSense, IPCop |
| CI/CD | Gitlab , Maven , Gradle , Jenkins, Bamboo, Sonar, Nexus, JIRA, Redmine, SVN, Git |
| Programmation languages | Java , Groovy, Python , Bash |
| Methodologies | UML, Design Pattern GRASP & GOF, Agile |
| Log management | ELK (ElasticSearch, Logstash, Kibana), Fluentd |
| Testing tools | Selenium, Gatling |
| Other tools | Haproxy, Xwiki, Confluence, Apache httpd, Nginx, JBoss, Tomcat, Cassandra, Redis, Drupal, Joomla, Junit, Jmock, Mockito, Jacoco |
| Frameworks & APIs | Spring (IoC, AOP, MVC), GWT, SLF4J, Logback |
| Languages | French (mother tongue), English (fluent), German (fluent) |

Certifications

| Date | Training | Certification |
|---------|--|----------------------|
| 02.2022 | Linux Certified Systems Administrator | LFCE |
| 01.2021 | Linux Certified Systems Administrator | LFCS |
| 02.2020 | Certified Kubernetes Application Developer | CKAD |
| 01.2020 | Certified Kubernetes Administrator | CKA |

Professional experience

2020-Now Senior SRE / DevOps Engineer - *Camptocamp (Munich)*

Deutsche Telekom

- Migrate a traditional Helmfile based deployment to a GitOps approach using ArgoCD (**Helm**, *Helmfile*, **ArgoCD**, *Gitops*)
- Evolution of the Gitlab Pipelines building Docker images and deploying those images in an Openshift cluster (*Gitlab*, **Bash**, **Python**, *Openshift*)
- Setup a Kaniko based Gitlab pipelines to builds Docker images in a Kubernetes cluster without Docker daemon (**Kaniko**, **Kubernetes**, *Gitlab*, **Bash**)
- Develop a Gitlab projects dependency analyzer, allowing to trigger Docker builds based on the Docker dependency tree. (**Python**, *Gitlab API*)
- Support developers with various build and deployment related issues.

Camptocamp

- Setup and automate a documentation Tool (*Antora*, *Asciidoc*, **Github Actions**)
- Participation to various workshops aiming at improving the CI/CD processes globally

2018-2020 (2 years) Senior DevOps Engineer - *Onpex (Munich)*

- Migrate the Puppet deployment code base code to Ansible (Full rewrite) (**Ansible**, *Puppet*)
- Build and Maintain a Kubernetes cluster in AWS (**Kubernetes**, *Kops*, **EKS**)
- Maintaining automatic deployment pipelines (*Kubernetes*, **Helm**, *Gitlab*)
- Dockerize applications (*Docker*, **Maven**)

2016-2018 (2 years) - DevOps Engineer - *Travian Games (Munich)*

- Build a containerisation scalable infrastructure (**Kubernetes**, *DC/OS*, **Docker**, *Packer*, *Vagrant*)
- Build a CI/CD Pipeline with one of the development team
- Refactoring of the configuration management code base (*Puppet*, *Python*, *Git*, *Stash*)

2016 (7 months) - Build Engineer - *Workday (Dublin / Munich)*

- Deployment of a CI environment using Jenkins on a Docker cluster with a centralized log management system (**Ansible**, **Docker**, *Swarm*, *Consul*, *Registrar*, *ElasticSearch*, *Fluentd*, *Kibana*, *Jenkins*)
- Writing scripts to automate data updates between webservices (*Groovy*, *Bamboo*, *JIRA*, *Confluence*)
- Partial migration from Ant (*Ant*, *Gradle*)

2016-2010 (5 years) - DevOps Engineer - *Thales Services (Paris)*

Software development park management

- Creation of **masters** for development computers (pre-equipped and pre-configured); *Ubuntu* (10.04, 11.04, 12.04, 13.04); *Mint* (14, 15); *Debian* (6.0, 7.0, 8.0)
- Implementation of a **mass cloning** infrastructure based on **Clonezilla** to provision pre-configured developer computers on the fly
- Automated park Inventory (**OCS Inventory** NG and *GLPI*)

Packaging, integration and industrialization of deployments

- Automating deployment of hypervisors (**Preseed**, *Puppet*, *Ansible*)
- Automating deployment of virtual machines (*Shell Scripts*, then **Python** specific development)
- Building native **debian packages** from the **Maven** projects (*Jdeb*)
- Setting up a continuous deployment process including a platform specific settings (**Ansible**)
- Setting up a log management architecture (**ELK**: *ElasticSearch*, *Logstash*, *Kibana*)
- Implementing of a performance monitoring architecture (*Munin*)

Implementation, deployment and maintenance of a software development platform:

Platform used by a team of 60 people

- Continuous integration (**Maven**, **Jenkins**, *Nexus*, *Sonar*, *Squale*)
- Continuous deployment (*Jenkins*, **Debian**, **Ansible**, **Docker**)
- Collaborative Work (*JIRA*, *SVN*, *Git*, *Xwiki*, *OpenLDAP*)
- Security and Network (**PFSense**, *HAProxy*)

Integration and testing platform:

- Installation and configuration of 40 hypervisors (**VMWare ESXi/vSphere** for more than 2 years, **KVM** for 2 years, partial migration to **Docker** during the last year)
- Managing integration and test platforms (about **800VMs** : 20 platforms, ~40 servers per platform)
- **Daily deployments** of whole platforms from OS to application softwares (VM 40, 35 Jboss, 2 Postgresql, 2 Cassandra, 10 Redis, 2 ActiveMQ, 6 lemonldap-ng, 10 apache httpd)
- Deployment of an infrastructure of acceptance tests (*Selenium Hub* + *ubuntu* & *windows* nodes)

Referent on software integration and system integration

- Design and implementation of the **Maven architecture** (Maven3, Corporate POM, BOM, automated delivery projects, archetypes)
- Responsible for the quality of system versions (weekly releases)
- Development and production teams Support

2010 (3 months) - Devops Engineer & Software Developer - *Thales Services (Paris)*

1 development mission, 2 system administration missions

- Development of a demonstrator for RATP (french trains company) (3 months)
- Deployment and administration of the development server (used by fifteen developers)
- Creation of Linux masters for development laptops & deployment of pre-configured development laptops

*Ubuntu 10.04, CentOS 5.5, Eclipse 3.5 JEE, **Java** JEE 1.6, VMWare ESXi, vCenter, **GWT**, SmartGWT, **Hibernate**, SLF4J, Logback, JDepend, PMD, Checkstyle, FindBugs, JUnit, Emma, Clonezilla*

2010 (2 weeks) - Quality Auditor - *Thales Services (Paris)*

- Quality audit of the JEE application Gesplan

***Java** JEE 1.6, **Spring** 2.5, *Struts2*, **Hibernate**, Eclipse 3.5 JEE, JDepend, PMD, Checkstyle, FindBugs, JUnit, Emma*

2010-2009 (6 months) - Software Developer - *Thales Services (Paris)*

1 development mission, 2 system administration missions

- Development of a public transportation management application
- Creating a master of development station
- Installing a Linux Debian development server (5.0)

*Java JEE 1.6, AspectJ, **Spring** 2.5, **GWT** 1.7 & 2.0, GXT, WSDL, Eclipse 3.5 JEE, Subversion, Redmine, Maven 2, JDepend, PMD, Checkstyle, FindBugs, Junit, Emma, Test Driven Development, Pair Programming, Iterative schedule*

2008-2009 (1 year) - Software Developer - *Thales Air Systems (Paris)*

5 development missions, 2 system administration tasks

- Design and development of a simulation framework (3 months)
- Design and development of a persistence framework (3 months)
- Participation in the development of a windowing API OpenGL (2 months)
- Changes in the Comet tool, multi-language code generation tool (2 months)
- Development of a model transformation tool M2M of communication interfaces (2 months)
- Deployment and administration of the development server (used by about 30 people spread over 3 services)
- Automating deployments of development laptops

*Java J2SE version 1.6, **Maven** 2 Eclipse 3.5, Subversion, Redmine, GOF Design Patterns & GRASP*

2006-2008 (2 years) - Software Developer - *Thales EPM (Paris)*

3 development missions

- Analysis and design of a data export engine (18 months)
- Designing an electronic component reduction module (2 months)
- Designing a calculation engine based on finite difference applied to thermal science (4 months)

Java J2SE version 1.4 & 1.6, Eclipse 3.4 / 3.3 / 3.2

2005-2006 (1 year) - Consultant & Trainer - *CMS Informatic (Paris)*

Training, development and administration

- Preparation and delivery of technical training courses (English and French)
- System and network administration.
- VBA development

Education

| Date | certificate |
|-----------|---|
| 2003-2008 | Engineering degree by apprenticeship, specialty in computer science, IFIPS, Orsay |
| 2002-2003 | CPGE TSI, electronic and mechanical, Rueil Malmaison |
| 2001-2002 | Bachelor with specialty in electronic (honors), Carrières sur Seine |

Various

- Ability to work on projects classified as **secret defense** in France
- Hobbies/Interests: **Swing dancing**, Boxing, **Forex Trading**, Hypnosis, Body language analysis, Woodwork, Permaculture