

Aurélien Campergue
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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*, *Registrator*, *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