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Senior DevOps Engineer

Specialties: CI/CD, Gitlab, Kubernetes, Maven, Java, Linux, Docker, 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

- Transformed a traditional Helmfile-based deployment into a GitOps approach using ArgoCD (Helm, Helmfile, ArgoCD, GitOps)
- Enhanced GitLab Pipelines for building Docker images and deploying them in an Openshift cluster (GitLab, Bash, Python, Openshift)
- Implemented Kaniko-based GitLab pipelines to build Docker images in a Kubernetes cluster without Docker daemon (Kaniko, Kubernetes, GitLab, Bash).
- Developed a GitLab project dependency analyzer to trigger Docker builds based on the Docker dependency tree (Python, GitLab API).
- Provided support to developers for build and deployment-related issues.

Camptocamp

- Set up and automated a documentation tool using Antora, AsciiDoc, and Github Actions.
- Participated in various workshops aimed at improving CI/CD processes globally.
- Participated in the creation of training materials.

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

- Migrated the Puppet deployment codebase to Ansible through a full rewrite (Ansible, Puppet).
- Maintained automatic deployment pipelines (Kubernetes, Helm, GitLab).
- Dockerized applications (Docker, Maven).

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

- Built a scalable containerization infrastructure using Kubernetes, DC/OS, Docker, Packer, and Vagrant.
- Collaborated with a development team to establish a CI/CD pipeline.
- Refactored the configuration management codebase (Puppet, Python, Git, Stash).

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

- Deployed a CI environment using Jenkins on a Docker cluster with centralized log management (Ansible, Docker, Swarm, Consul, Registrator, Elasticsearch, Fluentd, Kibana, Jenkins).
- Wrote scripts to automate data updates between webservices (Groovy, Bamboo, JIRA, Confluence).
- Conducted a partial migration from Ant to Gradle.

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

Software development park management

- Created pre-equipped and pre-configured base images for development computers, including Ubuntu (10.04, 11.04, 12.04, 13.04), Mint (14, 15), and Debian (6.0, 7.0, 8.0).
- Implemented a mass cloning infrastructure using Clonezilla to effortlessly provision pre-configured developer computers.
- Automated park inventory using OCS Inventory NG and GLPI

Packaging, integration and industrialization of deployments

- Automated hypervisor deployment using Preseed, Puppet, and Ansible.
- Streamlined virtual machine deployment using Shell Scripts and Python development.
- Created native Debian packages from Maven projects utilizing Jdeb.
- Established a continuous deployment process with platform-specific settings using Ansible.
- Implemented a log management architecture with ELK (ElasticSearch, Logstash, Kibana).
- Deployed a performance monitoring architecture using Munin.

Implementation, deployment and maintenance of a software development platform:

Managed a software development platform used by a team of 60 people

- Implemented continuous integration with Maven, Jenkins, Nexus, Sonar, and Squaler.
- Orchestrated continuous deployment with Jenkins, Debian, Ansible, and Docker.
- Configured collaborative work tools, including JIRA, SVN, Git, Xwiki, and OpenLDAP
- Ensured security and network stability with PFSense and HAProxy.

Integration and testing platform:

- Installed and configured 40 hypervisors, including VMware ESXi/vSphere, KVM, and Docker.
- Managed integration and test platforms consisting of approximately 800 VMs across 20 platforms.
- Conducted daily deployments of complete platforms, including OS and application software stacks (40 VM, 35 Jboss, 2 PostgreSQL, 2 Cassandra, 10 Redis, 2 ActiveMQ, 6 lemonldap-ng, 10 apache httpd)
- Set up an infrastructure for acceptance tests using Selenium Hub with Ubuntu and Windows nodes.

Referent on software integration and system integration

- Led the design and implementation of the Maven architecture, incorporating Maven3, Corporate POM, BOM, automated delivery projects, and archetypes
- Ensured the quality of system versions with weekly releases.
- Provided support to development and production teams.

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

1 development mission, 2 system administration missions

- Developed a demonstrator for RATP (French train company), showcasing innovative solutions
- Managed deployment and administration of the development server, supporting a team of fifteen developers
- Created Linux masters for development laptops and streamlined the deployment of pre-configured development environments.

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

2010-2009 - Software Developer - Thales Services (Paris)

1 development mission, 2 system administration missions

- Designed and developed a comprehensive public transportation management application.
- Established a master configuration for development stations, ensuring consistency and efficiency.
- Installed a Linux Debian development server (version 5.0) for enhanced software development processes.

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 - Software Developer - *Thales Air Systems (Paris)*

5 development missions, 2 system administration tasks

- Designed and developed a simulation framework for radar systems detecting missiles.
- Created a persistence framework for efficient storage and retrieval of simulation data.
- Collaborated on the development of an OpenGL-based windowing API to visually display the simulation in real-time.
- Implemented enhancements and modifications to the multi-language code generation tool named Comet.
- Developed a model-to-model (M2M) transformation tool enabling seamless communication between radars using different protocols, by generating necessary stubs to bridge the communication gap.
- Managed deployment and administration of a development server, supporting a team of approximately 30 users across three departments
- Automated the deployment process for development laptops, streamlining setup and configuration

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

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

3 development missions

- Designed and implemented a thermal data export engine specifically for electronic map thermal simulation software
- Developed an engine utilizing population-based genetic algorithms to generate thermal models with simplified geometry
- Created a simplified thermal simulation engine enabling faster pre-simulations compared to professional software

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

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

Training, development and administration

- Delivered technical training courses, focusing primarily on Linux system administration, and software development
- Oversaw the management of company servers and network infrastructure
- Created tailored software solutions and advanced macros in MS Office using VBA

Education

Date	certificate
2003-2008	Engineering degree (apprenticeship) - Computer Science specialization
2002-2003	CPGE TSI (Technological and Industrial Science Preparatory Classes) - Electronic and Mechanical focus
2001-2002	Bachelor's degree - Electronic specialization (honors)

Various

- Experience working on classified defense projects in France
- Hobbies/Interests: **Swing dancing**, Boxing, **Forex Trading**, Hypnosis, Woodwork, Permaculture