

Fabian Schütz

DevOps Engineer



Kubernetes
DevOps/GitOps/CICD
OpenStack/AWS/Terraform
Go/Python/Bash
Linux

GitHub

<https://github.com/veith4f>

Skills

Kubernetes, Go, Python, Bash, CI/CD, Jenkins, GitLab, GitHub, ArgoCD, Linux, Cilium, terraform, AWS, OpenStack, Ansible, Docker/Docker-Compose, Jira, Confluence, Helm, Prometheus, Grafana, Elastic Search, Service-Oriented Architecture, Networking, VSphere, KVM/Proxmox

References

2025/07 - 2025/11

Company: Mercedes-Benz Tech Innovation GmbH
Product: CaaS - Enterprise-scope Kubernetes-Engine
Role: Kubernetes Expert, Operator Developer, Build Developer
Technology: Kubernetes, GitLab, Golang, Bazel, AWS, Python, Bash, Docker, Flux/GitOps, Helm, GitHub
Tasks:

- Write/Maintain Kubernetes Operators
- Maintain/Develop large Bazel build
- Maintain infrastructure on AWS
- Write proposals for infrastructure improvements

2025/01 - 2025/04

Company: Plusserver GmbH
Product: Plusserver Kubernetes Engine
Role: Kubernetes Expert
Technology: Gardener, Kubernetes, OpenStack, Cilium, Linux, Go, ArgoCD, GitLab, Helm, Python, Bash
Tasks:

- Develop and maintain complex distributed infrastructure based on OpenStack and Gardener/Kubernetes
- Automate deployment tasks
- Migrate pipeline to consequently use GitOps Pattern
- Create and enforce Coding Standards:
<https://github.com/veith4f/go-straight>
- Write operators for monitoring, billing and various landscape-wide tasks. <https://github.com/veith4f/scropt>

2024/01 - 2024/10

Company: Bundesamt für Migration und Flüchtlinge (BAMF)
Project: Maintain complex distributed private-cloud infrastructure based on OpenShift. Support application team needs by implementing feature requests.
Role: DevSecOps Engineer
Technology: OpenShift, Jenkins, ArgoCD, Python, Java/Spring
Tasks:

- Redesign and reimplement Jenkins pipelines for multiple Projects across all environments dev/test/production
- Set up ArgoCD and build pipelines for deployments of distributed Java Spring application
- Implement organisation SSO in ArgoCD and make available across institution

2023/03 - 2023/12

Company: Sopra Steria SE
Project: Develop and roll out highly fail-safe, BSI-Grundschutz

certified operation planning solution for country-wide emergency call centers (Integrierte Leitstellen).

Role: DevSecOps Engineer

Technology: Ansible, Terraform, UEFI Secure Boot, PXE, OpenStack, OVH, Python, Linux, Elastic Search
RedHat, Proxmox

- Tasks:
- Modernize company infrastructure in OVH cloud to properly use terraform infrastructure as code.
 - Create central installer application to host network installations via PXE with UEFI Secure Boot for physical machines in a distributed, highly fail-safe environment.
 - Optimize ElasticSearch Performance
 - Plan and roll out installation and configuration of entire highly fail-safe environment starting from the physical layer.
 - Create appropriate hardened images for Windows and Linux machines.
 - Write Ansible playbooks to automatically configure network hardware, servers and client machines.
 - Set up and configure virtualization using Proxmox.
 - Wire a set of distributed services consisting of highly-available storage, telephone, radio transmission, operation planning, monitoring and automated central updates.
 - Moderate collaboration among a range of professionals from domains of security, public projects, networking, etc. to meet complex requirements and document discussions as well as chosen solutions.

2022/06 - 2023/02

Company: Continental AG

Project: Develop and maintain in-house developed, cloud-native development environment for automation, machine-learning and data science.

Role: MLOps Engineer

Technology: AWS, Terraform, Serverless, Kubernetes, GitHub, Jenkins, Python, Linux, Prometheus, Grafana

- Tasks:
- Write/test lambda function for backup/deletion of custom AMI images
 - Write and extend CDK modules
 - Refactor code base and unify mail sending through central facade class
 - Rewire mail sending from Simple Email Service to company SMTP, use SQS for queuing to account for quotas
 - Update Kubernetes clusters and software running on them from 1.19 to 1.21
 - Write Tampermonkey script for browsers to clearly indicate if the active AWS account is prod or dev.
 - Extend/test custom AMI images with new user software
 - Write terraform module to use GitHub Actions for automatic testing on repository push

2021/03 - 2022/05

Company: Bundesdruckerei GmbH
Project: Create data-oriented government web portal for researchers and scientists on highly secure private cloud.
Role: Team-lead infrastructure. Responsible for set up and maintenance of microservice-oriented architecture based
Technology: VSphere, OpenShift/Kubernetes on bare metal, Red Hat Enterprise Linux, SAP Hana, SAP DataIntelligence, GitLab on VSphere and OpenShift.
Tasks:

- moderate stakeholder meetings in order to identify and meet security, performance and policy needs
- Identify resource needs (cpu, memory, licenses)
- Set up OpenShift on bare metal on BDR managed VSphere cluster
- Install SAP Hana on OpenShift
- Install SAP Data Intelligence on OpenShift
- Set up file hosting service
- Install MinIO (S3) on OpenShift

2019/10 - 2021/02

Company: Telefonica Germany GmbH & Co. OHG
Project: Build large-scale, service-oriented (SOA), AWS-based, multi-tenant development environment for data scientists working at Telefonica
Role: MLOps Engineer
Technology: AWS, Linux, Terraform, Docker, Kubernetes, Istio, Bash, Ansible, Python, Django, Gitlab, OpenID Connect, SAML, Jira, Confluence, Prometheus, Grafana
Tasks:

- write terraform module to set up EKS cluster with Istio service mesh and (lots of) customization
- Write terraform module to set up ingress, certification, single-sign-on with Keycloak and either SAML or OAuth
- Write terraform module to set up network/vpc layer with tunnel to company network
- Write terraform module to install Gitlab, Jira, Confluence, Jenkins
- Write python boto3 module to start, stop and change EC2 instances on demand
- Set up deployment pipelines with GitLab

2019/04 - 2019/09

Company: Zeppelin GmbH
Project: Build service-oriented (SOA), web-application with shop and marketing platform with AWS/Kubernetes.
Role: DevOps Engineer
Technology: AWS, Linux, Terraform, Docker, Kubernetes, Istio, Bash, Ansible, Python, Django, Gitlab, CircleCI, Jira, Confluence
Tasks:

- Create/maintain automatic software build (RPM) with Gradle
- Create automatic database initialization with Gradle

- Develop Java terminal application for handheld devices
- Create/maintain automatic tests
- Optimize/Speed up system routines and initialization

2016/11 - 2019/03

Company: star/trac supply chain solutions GmbH
 Project: Custom supply chain software for DHL/Deutsche Post based on Java Spring, JBoss/Wildfly and Oracle, solving a complex optimization problem
 Role: DevOps Engineer
 Technology: Java, Spring, Gradle, Oracle, Linux/RPM, Bash, Jira, Confluence, JBoss/Wildfly, Docker
 Tasks:

- Create/maintain automatic software build (RPM) with Gradle
- Create automatic database initialization with Gradle
- Develop Java terminal application for handheld devices
- Create/maintain automatic tests
- Optimize/Speed up system routines and initialization

2015/09 - 2016/03

Company: storyx AG
 Project: Mobile application (Android tablets) with web component
 Role: Developer
 Technology: Java, Android, Rest, SQL, Node.js
 Tasks:

- Develop mobile application (Android).
- Develop web application (Node.js).
- Set up device synchronization (Rest).

Period: 2010/04 - 2015/09

Company: Lohmann & Birkner Mobile Services GmbH
 Project: Set up/maintain office infrastructure
 Role: System administrator
 Technology: Linux, Networking, GNU Desktop, Android, iOS
 Tasks:

- Create/maintain netboot operating system, based on Linux for daily office work.
- Install/maintain servers and office network
- Set up/maintain automatic test environments (KVM, VirtualBox)
- Automate regular company tasks and operations
- Develop several Android applications
- Develop several iOS applications

Languages

German (native), English (fluent), French (conversation level)

Education

2010 - 2014 Bachelor of Science Universität Freiburg
Unsatisfied with my role, after completing an apprenticeship as a programmer, I chose to study computer science.

2014 - 2017 Master of Science FU Berlin
After my Bachelor's degree, I decided to go to Berlin to focus on operating systems, security and cryptography. With two full professorships dedicated to these subjects, FU Berlin was the best location for these subjects.

Profile

My professional career began as a software developer at a company in Munich/Germany where I completed an apprenticeship and subsequently worked as a developer before I decided to study computer science, completing a BSc at Albert-Ludwigs-Universität Freiburg and an MSc at Freie Universität Berlin.

While studying, I was active as a freelance embedded developer, a system- and network engineer. Part of these works was the design and implementation of a network boot system based on Linux that powered the office and development environments of a company in Freiburg.

After completing my Bachelor's degree, I decided to attend courses at FU Berlin where with Marian Margraf, who designed the security around the German ID card and Volker Roth, two full professorships were dedicated to IT-Security and Cryptography. The program consisted of challenging mathematical problems from the algebraic domain which form the foundation of asymmetric cryptography. Problems concerned the construction of security schemes such as message authentication codes, encryption, hashing as well as attacks on those.

As cryptography can only protect data when provided with a secure operating system, in practical projects, I wrote an advanced firewall based on Linux Kernel modules for deep packet analysis as well as a small microkernel operating system for an ARM development board, researching a minimal kernel feature set required to provide security and isolation for processes.

After completing my Master's, I started working as a DevOps Engineer, expanding my domain knowledge to Amazon WebServices, OpenStack and Kubernetes and working both in the public domain and private industry.

Today, I am an experienced Kubernetes expert, who enjoys building alongside other professionals in the large and exciting eco system that powers AI and machine learning technology.