

Lucas Kuhring — Senior Cloud DevOps Engineer

Personal Information

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Senior Cloud DevOps Engineer with 5+ years of experience building and operating scalable cloud platforms on AWS and Azure. Expertise in Infrastructure-as-Code (Terraform/Tofu), CI/CD automation, Observability (Datadog, New Relic) and DevSecOps (Wiz, Cloudflare). Proven success as Platform Owner for enterprise-wide AWS and Azure platforms (Tchibo, EnBW) and in migrating critical on-premises systems to the cloud. AWS Certified Solutions Architect Professional.

Technical Skills

Cloud Platforms

- Amazon Web Services (AWS) (Expert)
- Microsoft Azure (Advanced)
- Google Cloud Platform (Basic Knowledge)

Certifications

- Amazon Web Services Certified Solutions Architect Professional (SAP) (January 2021)
- Amazon Web Services Certified Solutions Architect Associate (SAA) (November 2020)
- Amazon Web Services Certified Developer Associate (DVA) (September 2020)

Further Education

- Amazon Web Services Well-Architected Partner Program Bootcamp (February 2021)

Operating Systems Common Linux Distributions (Ubuntu, Debian, Alpine), macOS, Windows

Programming Languages Java, Go, C++, Rust, Bash, Python

Software and System Architectures Cloud Architectures, Microservices, Model-View-Controller, Event-Driven Architectures, Distributed Architectures

Methods	CI/CD, Scrum, Kanban
Technologies	Docker, Kubernetes, Terraform, OpenShift, Apache Mesos, Apache Kafka, Packer, Serverless

Products

Observability & Monitoring	Datadog, New Relic, CloudWatch, ELK Stack (Elasticsearch, Logstash, Kibana), Wiz, Sonarqube, Nexus IQ, Contrast Security
DevSecOps & Security	Wiz, Sonarqube, Nexus IQ, Contrast Security, Cloudflare
CI/CD & Source Control	Gitlab CI, AWS CodePipeline, Github Actions, Jenkins
Container & Orchestration	Docker, Kubernetes, OpenShift, Amazon ECS
Infrastructure-as-Code	Terraform, Tofu, Terragrunt, Terratest, CloudFormation, Bicep, Packer
Other Products	GitLab, GitHub, BitBucket

Additional Skills

Industry Knowledge	<ul style="list-style-type: none">- Marketing (Digital Out-of-Home Advertising)- Energy Supply- Aviation- Automotive- Public Sector- E-Commerce
Mobility	<ul style="list-style-type: none">- Driver's License Class B
Foreign Languages	<ul style="list-style-type: none">- English, Spanish (fluent)- Russian, Portuguese (basic knowledge)

Projects

Company	E.ON Grid Solutions GmbH
Industry / Area	Energy Supply
Period	since 07/2025
Project Goal	Architectural development and operation of various applications related to the planning of energy infrastructure in the Azure Cloud.

Role	DevOps Engineer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Planning, building and operating Azure cloud infrastructures with Terraform/Tofu (IaC) and their operation (approx. 3,000 users/day) - Container management (Docker, Kubernetes, Azure Container Apps) - Integration of web security via Cloudflare - Development of CI/CD pipelines - Automation and operation in Windows server environments
Methods / Technologies	<ul style="list-style-type: none"> - Agile software development - Infrastructure-as-Code via Terraform/Tofu - Monitoring of cloud systems in New Relic - DevSecOps using Wiz

Company	Mercedes Benz Tech Innovation GmbH
Industry / Area	Automotive Industry
Period	02/2025 – 06/2025
Project Goal	<p>As part of the central Observability Team in the sales division, the following objectives arose:</p> <ul style="list-style-type: none"> - Building alerting for various systems and support levels - Establishing standards for consistent monitoring within the internal cloud platform - Automated integration of the monitoring solution into the AWS environments of multiple development teams - Consulting and technical support of development teams for using the Datadog monitoring solution (approx. 20–30 teams)

Role	Site Reliability Engineer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Implementation of dashboards and alerting based on requirements defined by the business unit - Implementation of automations in the monitoring area
Methods / Technologies	<ul style="list-style-type: none"> - Agile software development within the SAFe framework - Monitoring of cloud systems in Datadog - Infrastructure-as-Code via Terraform - Automation with Python and Bash

Company	EnBW AG
Industry / Area	Energy Supply

Period	07/2023 – 12/2024
Project Goal	As part of the central Cloud Platform Team, the following overarching goals emerged: <ul style="list-style-type: none"> - Operation and further development of the AWS and Azure platforms regarding automation and security - Operation and further development of a developer platform around Azure DevOps, GitHub, and self-hosted solutions for SCA, SAST, and artifact management - Consulting and technical support of development teams in connection with Amazon Web Services and Azure
Role	DevOps Engineer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Building automatically deployable infrastructure components (AWS and Azure) for development teams - Active participation in the group-wide revision of the AWS network architecture (multi-account with Transit Gateway, network segmentation) - Implementation of corporate requirements regarding identity and access management and security in general - Implementation of customer requirements regarding functionalities of the AWS, Azure and developer platforms - Design and setup of on-premises build runners
Methods / Technologies	<ul style="list-style-type: none"> - Agile software development - Infrastructure-as-Code via CloudFormation, Bicep, and Terraform - Automation with Python and Bash - Monitoring of cloud systems in Datadog

Company	Tchibo
Industry / Area	Retail and E-Commerce
Period	01/2022 – 06/2023
Project Goal	<ul style="list-style-type: none"> - Expansion of the AWS platform regarding automation and security - Migration of on-premises systems to the AWS Cloud - Building a Microsoft Azure platform for onboarding new migration projects - Building a central network environment for the AWS platform using Transit Gateway - Further establishment of cloud platforms within the company - Support in building a central cloud monitoring solution
Role	Senior DevOps Engineer Platform Owner AWS & Azure

Tasks / Responsibilities	<ul style="list-style-type: none"> - Sole responsibility for building and operating the AWS and Azure platforms (multi-account) as the primary point of contact for cloud costs, architecture decisions and company-wide cloud enablement for > 100 development teams - Successful migration of business-critical on-premises systems to AWS (Marketing, EDI, product data maintenance, B2B) — including lift-and-shift as well as cloud-native redesign - Design and establishment of further standards for AWS as a platform for cross-team workloads - Building the entirely new Azure platform including the network environment, standardization and automation for project onboarding - Building a flexible CI/CD runner cluster using Kubernetes - Creation and maintenance of automations in the areas of cost management, patch management, backup/restore and data synchronization
Methods / Technologies	<ul style="list-style-type: none"> - Agile software development - Infrastructure-as-Code via Terraform - Monitoring of cloud systems in Datadog - CI/CD infrastructure in GitLab

Company	Otto
Industry / Area	Retail and E-Commerce
Period	09/2021 – 12/2021
Project Goal	Infrastructural further development and operation of an internally used AWS system within the product data pipeline
Role	DevOps Engineer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Further development of deployment pipelines for infrastructure in AWS - Application operations - Support in the architectural further development of the system
Methods / Technologies	<ul style="list-style-type: none"> - Agile software development - Infrastructure-as-Code via Terraform - CI/CD infrastructure in AWS CodePipeline

Company	Tchibo
Industry / Area	Retail and E-Commerce
Period	05/2021 – 08/2021
Project Goal	<ul style="list-style-type: none"> - Migration of on-premises services to the AWS Cloud

	<ul style="list-style-type: none"> - Building a standardized landing zone (AWS Control Tower + Terraform) for structured cloud onboarding - Provision of central infrastructure (CI/CD runners, templates) for > 50 product teams
Role	Provision of templates for standardized CI/CD pipelines DevOps Engineer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Building a landing zone in AWS based on Control Tower - Creation of central Terraform modules for specific use cases (central infrastructure and use by product teams) - Building a CI/CD runner cluster in ECS - Creation of scripts for recurring tasks (e.g. summarizing AWS billing statements across all accounts) - Provision of templates for standardized CI/CD pipelines
Methods / Technologies	<ul style="list-style-type: none"> - Agile software development - Infrastructure-as-Code via Terraform, Terragrunt, and Terratest - Monitoring of services in CloudWatch - CI/CD infrastructure in GitLab

Company	Federal Employment Agency
Industry / Area	Public Sector
Period	06/2020 – 04/2021
Project Goal	<ul style="list-style-type: none"> - Further development of the Federal Employment Agency's online services (BA Online Portal, domains "Benefits" & "Base Services", > 300,000 users/day) - Focus: Online appointment scheduling and products "Contact Form", "Company Number Online", "Search" and "Online Appointment Display" - Architectural responsibility for multiple products including technical consulting and cross-team coordination
Role	Software Architect
Tasks / Responsibilities	<ul style="list-style-type: none"> - Design of the application architecture of individual products in coordination with other IT services of the Federal Employment Agency - Support of project management with technical questions and estimations - Diverse support of the development team and removal of obstacles as a communication interface with other teams/departments

Methods / Technologies	<ul style="list-style-type: none"> - Agile software development - Security-oriented software development with regular threat analysis of products and assessment of security risks - Software deployment on a container platform based on Apache Mesos - Microservice architectures in combination with Apache Kafka for distributed message exchange and Apache Cassandra for fault-tolerant persistence - Atlassian Stack (Confluence, Jira, BitBucket) for documentation and organization within and between teams - Comprehensive testing at unit level and end-to-end - ELK Stack for distributed collection and analysis of log data - End-to-end testing with Protractor and CucumberJS
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Company	Audi/Volkswagen
Industry / Area	Automotive Industry
Period	01/2020 – 04/2020
Project Goal	<ul style="list-style-type: none"> - Development of interactive web applications for Audi (product development processes) and Volkswagen (IoT dashboard for office environments) with AWS IoT integration.
Role	Full Stack Developer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Development of full-stack components (Angular, Spring Boot) including IoT integration with AWS IoT - Programming of microcontrollers (Embedded C) for capturing environmental data - Role-based access management and data presentation in the frontend
Methods / Technologies	<ul style="list-style-type: none"> - Angular, Spring Boot, AWS IoT, Embedded C, JavaScript

Company	Cittadino
Industry / Area	Advertising Industry
Period	09/2019 – 07/2020
Project Goal	<ul style="list-style-type: none"> - Building an AWS-based forecasting tool for data-driven marketing of advertising slots at 10 German airports (Cittadino / Tank & Rast)
Role	Cloud Engineer and DevOps

Tasks / Responsibilities	<ul style="list-style-type: none"> - Building the entire AWS cloud infrastructure (~120 resources via CloudFormation) for a serverless forecasting system - Integration of various data sources (flight schedules, passenger data, events) and provision via GraphQL API (AWS AppSync) - CI/CD pipeline in AWS CodePipeline for automated build and deployment of Lambdas, infrastructure and API
Methods / Technologies	<ul style="list-style-type: none"> - AWS Lambda, SQS/SNS, S3, DynamoDB, CloudFormation, AppSync, CodePipeline

Company	IMDEA Software
Industry / Area	Research
Period	01/2019 – 06/2019
Project Goal	Implementation of a private blockchain system with low transaction latency based on IBM Hyperledger Fabric
Role	Master's Student / Software Developer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Setup and operation of a Hyperledger Fabric blockchain cluster via Docker - Profiling and identification of performance bottlenecks in the transaction process - Implementation of targeted performance improvements within the platform
Methods / Technologies	<ul style="list-style-type: none"> - Go, Bash, Docker, IBM Hyperledger Fabric

Company	IMDEA Software
Industry / Area	Research
Period	10/2018 – 12/2018
Project Goal	Research into the use of specialized hardware (FPGAs) in data centers for high-performance and energy-efficient execution of data processing operations
Role	Master's Student / Software Developer
Tasks / Responsibilities	<ul style="list-style-type: none"> - Development of a Go library for network-based FPGA data processing in data centers - Optimization of Apache Parquet file storage through deduplication - Benchmarking of the library and documentation of performance results
Methods / Technologies	<ul style="list-style-type: none"> - Go, Bash, Apache Parquet, FPGA

Company	Bundespolizei
Industry / Area	Public Sector
Period	10/2018 – 01/2019
Project Goal	Implementation of a graphical strategy simulator for police operations
Role	Working Student / Software Developer
Tasks / Responsibilities	- Development of graphical 3D elements (demonstration marches, vehicles) for a police operations simulator
Methods / Technologies	- Java, jMonkey, Apache Tomcat

A handwritten signature in black ink, appearing to be 'C. G.' or similar, written in a cursive style.

Hamburg, April 19, 2026