


Jeff Hemmen


A driven and earnest person with an analytical mind, zeal for doing things right, and an obsession with abstraction and scalability.

Luxembourg (Esch/Alz.)

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TOP TECHS: HashiCorp (Terraform | Vault | Consul | Sentinel)
Linux | AWS | Ansible | Kubernetes | Python 3

EXPERIENCE

- Consultant representing AWS, HashiCorp, ECS, and digitalis.io.
- Sectors: finance, FinTech, hospitality, computer chip design.
- Writing cloud infrastructure as code (Terraform, AWS, Azure).
- Configuration management (Ansible, Puppet).
- CI/CD pipeline development (Git servers, Jenkins, Rundeck, TFC).
- Secrets management (HashiCorp Vault).
- Navigating complex regulatory, compliance, and governance review boards and frameworks.
- Monitoring and alerting for DBs, Apps, automation jobs, and OS (Consul, ELK, Prometheus, Grafana).
- Solid UNIX skills, especially CentOS/RedHat and Debian.
- Cassandra/DSE design, installation, tuning, scaling, and operations.
- Kafka/Confluent design, installation, tuning, scaling, and operations.
- Carry out proof of concept installations of emerging technologies quickly and reproducibly.
- Network design, troubleshooting, and configuration.
- Containerisation of existing applications (Docker).

ACHIEVEMENTS

- Architected and oversaw implementation of multinational secrets management platform, including all aspects such as governance, compliance, security, scalability, high availability, networking; for an international stock exchange group (HashiCorp Vault).
- Designed and set up cloud infrastructure for startup client from scratch. This includes VMs running a DSE cluster, permissions, networking and firewalls, a site-to-site VPN, and a monitoring suite; all in two identical environments. (Azure, Terraform+Ansible)
- Deployed monitoring environment in heavily regulated environment from scratch (Ansible).
- Complete datacentre migration, esp. database migration with minimal down-time (PostgreSQL).
- Engineered and carried out plan to prevent SQL database from running out of space with minimal downtime. (Linux, PostgreSQL)
- Setup of complete office network (PPPoE, routing & iptables, DHCP, DNS, VPN, WiFi).

CERTIFICATIONS

see credly.com/users/jeff-hemmen

AWS Certified Solutions Architect – Professional

Certified **Kubernetes** Administrator (CKA)

Certified Ethical **Hacker** (CEH)

HashiCorp certified:

- Terraform, Vault, Consul
- Instructor
- Implementation Partner (CHIP)
- Exam Contributor

VMware Certified Professional - Application Modernization

PUBLICATIONS

- "Managing Your Consul Cluster with Terraform", Medium.com¹, featured on HashiCorp website
- "DevOps Playground: Hands-on with Terraform Cloud", meet-up & YouTube² Virtual DevOps Playground
- Hands-On Service Mesh with Consul Connect", YouTube³
- "terraform refresh`is deprecated", Medium.com⁴

KEY SKILLS

- HashiCorp stack
- AWS stack
- Kubernetes, Docker
- Jenkins, GitHub Actions
- DC/OS, Mesosphere
- Ansible, Puppet
- Python 3, Bash, Go
- Networking (layers ≥3)
- HTTP, TLS, Rest APIs
- Linux
- Security, monitoring all the above

1. <https://medium.com/ecs-digital/managing-your-consul-cluster-with-terraform-9b72c3f5ac6e>

2. <https://www.youtube.com/watch?v=Ei8kzyGTonw>

3. <https://www.youtube.com/watch?v=S4lgDMfCb4w>

4. <https://medium.com/ecs-digital/terraform-refresh-is-deprecated-fd3418552da2>

EMPLOYMENT HISTORY

Jeff Hemmen Ltd **root** **January 2022–Present**

Having built a professional reputation of competence and reliability over 5 years, I have now made the move to becoming an independent consultant.

ECS (Digital) acq. GlobalLogic **DevOps & Continuous Delivery Consultant** **April 2019–July 2022**

As a consultant, my role at ECSD touches on the whole range of service delivery, from commercial and pre-sales contact through requirement gathering to implementation and documentation. I have designed and implemented bespoke cloud-based, on-prem, and hybrid solutions and delivered training for several clients, mainly in the financial sector. I have carried out these engagements in English, German, and French.

busuu **Platform Engineer** **November 2018–February 2019**

In this heavily AWS-focused role, my responsibilities spanned all of the cloud and on-premise infrastructure and networking, build and deployment tooling, split-horizon DNS and CDNs, as well as the data collection, warehousing, and analytics platforms.

digitalis.io **DevOps Engineer** **March 2017–November 2018**

My first project at digitalis was to design and set up the cloud infrastructure of a start-up in the Azure cloud. I have learned a lot at digitalis about network and application design, security considerations, different types of customer environments (from free reign to tightly regulated), and monitoring and alerting. This job also had customer-facing aspects to it.

ClearScore **DevOps Engineer** **September 2015–December 2016**

I joined ClearScore as a graduate, learning the basics of the job. I quickly became a trusted and responsible member of the team, taking on minor deployments and on-call responsibilities. I was part of a datacentre move, redesign of the monolith into a microservices architecture, and several incidents ranging from high load to malicious attacks.

EDUCATION

MRes Security Science 2014–2015
UCL

MSc Forensic Speech Science 2013–2014
University of York

Master's in Information Systems Security Management 2012–2013,
University of Luxembourg (*Unfinished*) 2015–2016

BSc Computing Science 2009–2012
University of Aberdeen

LANGUAGES



English



German



French



Italian



Luxembourgish