

# Jeff Hemmen

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

**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).

Luxembourg (Esch/Alz.)

+352 661 78 20 51  
+44 (0)7784 058 160

jeff@hemmen.lu  
github.com/JeffHemmen

## CERTIFICATIONS

see [credly.com/users/jeff-hemmen](https://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.com<sup>1</sup>, featured on HashiCorp website
- "DevOps Playground: Hands-on with Terraform Cloud", meet-up & YouTube<sup>2</sup>" Virtual DevOps Playground
- "Hands-On Service Mesh with Consul Connect", YouTube<sup>3</sup>
- "`terraform refresh` is deprecated", Medium.com<sup>4</sup>

## 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>

