

Alessandro Ferrari
DevOps Engineer & Cloud Architect

CONTACT INFORMATION

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github.com/alexferrari
Location: Roma, Italia

PROFESSIONAL SUMMARY

Senior DevOps Engineer with 7+ years of experience in designing and managing scalable cloud infrastructures. Expert in Kubernetes, Docker, AWS, Terraform, and CI/CD pipelines. Specialized in implementing microservices architectures and SRE practices to ensure high availability and performance. Strong experience with monitoring, logging, and security in enterprise environments.

WORK EXPERIENCE

Senior DevOps Engineer
CloudNative Solutions S.r.l., Roma
January 2020 - Present (5+ years)

- Design and management of multi-region AWS infrastructures for mission-critical applications
- Implementation of Kubernetes clusters with EKS, Helm, and Istio service mesh
- Deployment automation with Terraform, Ansible, and GitLab CI/CD
- Monitoring stack setup with Prometheus, Grafana, AlertManager, and ELK Stack
- Infrastructure as Code implementation reducing deploy time by 80%
- Security compliance management with AWS Security Hub, Vault, and SOPS
- Mentoring team of 5 junior engineers on DevOps best practices

Cloud Infrastructure Engineer
TechScale Italia, Milano
June 2018 - December 2019 (1.5 years)

- Migration of legacy applications to Google Cloud Platform and Azure
- CI/CD pipeline implementation with Jenkins, Docker, and Kubernetes
- Load balancers, auto-scaling, and disaster recovery configuration
- Cloud cost optimization by 40% through rightsizing and reserved instances
- Development of Python and Bash scripts for operational automation
- Collaboration with development teams for application containerization

System Administrator
HostingPro S.r.l., Napoli
March 2017 - May 2018 (1.2 years)

- Administration of Linux servers (CentOS, Ubuntu) and Windows Server
- Database management: PostgreSQL, MySQL, and MongoDB
- Web server configuration: nginx, Apache, and Tomcat
- Implementation of backup strategies and disaster recovery procedures
- Network configuration with pfSense, VLANs, and VPN
- 24/7 on-call support for critical systems

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, EKS, S3, RDS, Lambda, CloudFormation, IAM, VPC, Route53), Google Cloud (GKE, Cloud Run, BigQuery, Cloud Storage), Azure (AKS, App Services, SQL Database, Key Vault)

Containers & Orchestration: Docker, Podman, Kubernetes, Helm, Istio

Infrastructure as Code: Terraform, Ansible, CloudFormation, Pulumi

CI/CD & Version Control: GitLab CI/CD, GitHub Actions, Jenkins, ArgoCD, Flux, Git, Nexus, Harbor

Monitoring & Logging: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Fluentd, Fluent Bit, Jaeger, Zipkin, New Relic, Datadog

Programming & Scripting: Python, Bash, Shell, Go, JavaScript, Node.js, YAML, JSON

Databases & Storage: PostgreSQL, MySQL, MongoDB, Redis, AWS S3, GCS, Azure Blob, NFS, Ceph

Security & Compliance: Vault, SOPS, OAuth, SAML, OIDC, GDPR, SOC2, ISO27001, Trivy, Clair

Operating Systems & Networking: Linux (Ubuntu, CentOS, RHEL, Alpine), TCP/IP, DNS, Load Balancers, CDN, VPN (WireGuard, OpenVPN, IPsec), Firewall (iptables, Security Groups, NSGs)

EDUCATION

Bachelor's Degree in Computer Engineering
Università La Sapienza, Roma

2014 - 2017

Grade: 105/110

Thesis: "Orchestration of microservices in cloud-native environments"

High School Diploma in Computer Science
ITIS Galileo Galilei, Roma
2009 - 2014
Grade: 92/100

CERTIFICATIONS

AWS Certified Solutions Architect - Professional (2024)
Certified Kubernetes Administrator - CKA (2023)
Certified Kubernetes Application Developer - CKAD (2023)
HashiCorp Certified: Terraform Associate (2022)
Google Cloud Professional DevOps Engineer (2022)
Red Hat Certified System Administrator - RHCSA (2021)

PROJECTS & ACHIEVEMENTS

Open Source Contributions:

- Kubernetes Operator for automated PostgreSQL backups (200+ stars on GitHub)
- Contributor to Terraform AWS Provider (5+ merged PRs)
- Helm Charts for common applications in CNCF ecosystem

Speaking & Community:

- KubeCon Europe 2024: "Cost Optimization in Large-Scale Kubernetes"

- DevOps Days Italia 2023: "GitOps best practices with ArgoCD"
- Organizer of "DevOps Roma" meetup (500+ members)

Key Results:

- Reduced downtime to 99.5% through SRE practices implementation
- Migrated 200+ microservices from VMs to Kubernetes without interruptions
- Complete infrastructure provisioning automation reducing errors by 90%
- Multi-cloud disaster recovery setup with RTO under 15 minutes

LANGUAGES

Italian: Native (C2)

English: Fluent (C1) - Cambridge FCE Certificate

Spanish: Intermediate (B1)

INTERESTS

Cloud Native Technologies, Site Reliability Engineering, Automation, Open Source, Cybersecurity, Trekking, Photography, Cooking, Football