

Filipe Motta

Senior Senior DevOps/SecOps Engineer

SUMMARY

- Over 20 years in cloud infrastructure, and DevOps with expertise in AWS, GCP, Azure, Kubernetes (EKS, GKE, AKS), and Terraform, Linux administration. AWS SA, GCP, CKS, CKA, CKAD certificates.
- Led management of 300+ EKS clusters, implementing GitOps with ArgoCD, Helm orchestration, and zero-trust security using Kyverno and Istio.
- Automation with Ansible, Puppet, Python, and CI/CD pipelines using GitHub Actions, Jenkins, and Azure DevOps.
- Experience in multi-cloud migrations, container orchestration, observability stacks (Prometheus, Grafana, ELK), and incident management.
- Strong focus on security compliance (SOC2), federated IAM, zero-trust architecture, and scalable infrastructure as code.

TECHNICAL SKILLS

Main Technical Skills	Kubernetes, AWS, GCP, Terraform, Ansible
Programming Languages	AWK, Python
AI & Machine Learning	LSTM
JavaScript Libraries and Tools	Mustache
JavaScript Frameworks	Node.js
Security	CrowdStrike Falco, CSPM (Cloud Security Posture Management), Federation, Incident response, Kyverno, SOC 2
Data Analysis and Visualization Technologies	Kibana
Databases & Management Systems / ORM	Elasticsearch, ELK stack (Elasticsearch, Logstash, Kibana), Firestore, Microsoft Azure SQL Server
Cloud Platforms, Services & Computing	AWS, Azure, Fastly, GCP, PagerDuty
Azure Cloud Services	AKS, Azure Cloud Functions, Azure DevOps, Azure Key Vault, Azure Service Bus, Microsoft Azure SQL Server
Amazon Web Services	AWS CloudFront, AWS CloudTrail, AWS EventBridge, AWS Lambda
Google Cloud Platform	

	Cloud run, Google BigQuery, Google Kubernetes Engine (GKE)
Platforms	1C, Power Automate, vCenter
Deployment, CI/CD & Administration	Ansible, istio, Jenkins, KEDA, Puppet
Web/App Servers, Middleware	Apache HTTP Server
iOS Libraries and Tools	Core Animation
Logging and Monitoring	Datadog, Grafana, Logstash, Prometheus, Thanos
Mail / Network Protocols / Data transfer	DNS, LDAP, nfs, SMTP, SNMP, Teleport
Virtualization, Containers and Orchestration	Docker, Kubernetes, Terraform, Terragrunt, VMWare ESXi, vSphere
Version Control	GitLab
QA, Test Automation, Security	mTLS
File Systems, Storage	NAS (Network-attached storage)
SDK / API and Integrations	OIDC, ServiceNow API
Methodologies, Paradigms and Patterns	Publish/Subscribe Architectural Pattern, Solution Architecture Design
Scripting and Command Line Interfaces	Shell Scripts
Other Technical Skills	Alertmanager, Cloud Security Posture Management, Cloud Storage, CNAPP, Google Kubernetes Engine, IRSA, Kong, Kustomize, LVM, Network-attached storage, SAN, SLOs

WORK EXPERIENCE

Senior Cloud & Kubernetes Engineer - Expedia Group (Large-scale Kubernetes infrastructure management and migration at Expedia Group)

Duration: Mar 2024 - Present

Summary:

- Manage and optimize a large-scale Kubernetes infrastructure on AWS with over 300 EKS clusters, focusing on high availability, performance, and developer productivity
- The project includes migrating multi-cluster orchestration from Kubefed to ArgoCD and transitioning load balancers from Istio to AWS Network Load Balancers

Responsibilities:

- Manage Kubernetes clusters and infrastructure on AWS.
- Lead migration to GitOps workflows using ArgoCD.



- Develop Helm orchestration platform for standardized deployments.
- Manage autoscaling with Karpenter and KEDA.
- Implement security policies with Kyverno and runtime threat detection with Falco.
- Enforce zero-trust architecture and federated IAM.
- Automate infrastructure provisioning with Terraform and Terragrunt.
- Act as senior incident commander and mentor SREs.
- Develop automation tooling and support developer teams.

Technologies: AWS, Kubernetes (EKS), Terraform, Terragrunt, ArgoCD, Helm, Istio (mTLS, AuthorizationPolicies), Karpenter, KEDA, Kyverno, Falco, IRSA, OIDC, Teleport, Backstage, CNAPP/CSPM, PagerDuty, ServiceNow, Prometheus, Grafana, Datadog, AWS NLB, Custom CRDs, Python, Ansible, GitOps, CI/CD

Senior DevOps & Cloud Engineer - Time (CDN infrastructure and cloud-native application delivery at Time)

Duration: Mar 2023 - Mar 2024

Summary:

- Architected and managed CDN infrastructure using Fastly and CloudFront to optimize global content delivery for high-traffic digital media properties
- Managed GKE clusters and Cloud Run services on GCP, and built data pipelines feeding BigQuery for real-time analytics

Responsibilities:

- Architect and manage CDN infrastructure with Fastly and CloudFront.
- Design and maintain CI/CD pipelines using GitHub Actions for Node.js microservices.
- Manage GKE clusters and Cloud Run services ensuring scalability and cost efficiency.
- Build and maintain data pipelines for analytics in BigQuery.
- Provision and manage cloud infrastructure using Terraform with GitOps principles.
- Manage organization-level security and governance on GCP.
- Implement edge computing strategies with Fastly VCL and Compute@Edge.

Technologies: Fastly CDN, CloudFront, GitHub Actions, Node.js, GKE, Cloud Run, BigQuery, Terraform, GCP, GCP Org Policies, Cloud Identity, Entra ID, IAM, Docker, Datadog, Fastly VCL, Compute@Edge

Senior DevOps Engineer - Zazmic Inc (Multi-cloud migration and automation at Zazmic Inc)

Duration: May 2020 - Mar 2023

Summary:

- Led multi-cloud migrations from AWS and Azure to GCP, automating provisioning workflows and managing Kubernetes clusters across hybrid and on-premises environments
- Standardized infrastructure configuration and improved CI/CD pipelines for diverse client projects

Responsibilities:

- Lead multi-cloud migration strategies including EKS to GKE and RDS to CloudSQL.
- Automate GCP migration and provisioning workflows using Ansible.
- Provision Kubernetes clusters with kubeadm and Ansible playbooks.



- Manage Ansible automation at scale with Tower/AWX.
- Build and optimize CI/CD pipelines using GitHub Actions, Terraform, and Kubernetes manifests.
- Maintain and enhance GKE, EKS, and AKS clusters ensuring compliance and cost-effectiveness.
- Use Helm, Istio, ArgoCD, and Kustomize to standardize deployments.

Technologies: AWS, Azure, GCP (GKE, IAM, VPC, networking), Ansible (Roles, Inventories, Tower/AWX, Jinja2), kubeadm, Azure AKS, Azure SQL, Kubernetes (GKE, EKS, AKS), Terraform, Istio, Helm, ArgoCD, Kustomize, GitHub Actions, Lambda, Cloud Functions, Fargate, Cloud Run, S3, Cloud Storage, RDS, CloudSQL

Senior DevOps Engineer - Engineering Company (Cloud architecture and observability consulting at Engineering Company)

Duration: Mar 2019 - May 2020

Summary:

- Delivered consulting services across GCP and AWS including architecture design, implementation, and automation
- Built event-driven architectures and secure APIs, implemented observability stacks, and contributed to container security and governance

Responsibilities:

- Consult on cloud architecture and automation for clients.
- Build event-driven architectures using Pub/Sub, Lambda, and EventBridge.
- Implement and maintain observability stacks with Prometheus, Grafana, Thanos, and Alertmanager.
- Develop and maintain CI/CD pipelines using GitLab, Jenkins, and IaC tools.
- Enhance container security and governance with DevSecOps practices.

Technologies: AWS, GCP, Lambda, EventBridge, EKS, AKS, GKE, Anthos, Prometheus, Grafana, Thanos, Kong, CI/CD, GitLab, Jenkins, Terraform, Elasticsearch, GCP Cloud Functions, Cloud Run, Cloud Storage, FireStore, MemoryStore

Senior DevOps Engineer - SuperDigital (Microservices migration and Kubernetes infrastructure at SuperDigital)

Duration: Jan 2018 - Mar 2019

Summary:

- Orchestrated migration from monolithic system to microservices architecture on Azure Kubernetes Service (AKS)
- Built and managed Kubernetes infrastructure on-premises and in Azure with focus on high availability and observability within a financial compliance context

Responsibilities:

- Migrate monolithic system to microservices on AKS.
- Build and manage Kubernetes infrastructure on-premises and Azure.
- Implement CI/CD pipelines with Azure DevOps.
- Ensure compliance with SOC2 standards including secure access and auditability.
- Deploy and maintain monitoring and logging tools such as Prometheus, Grafana, and ELK.



Technologies: Azure, AKS, Kubernetes, Terraform, Azure DevOps, Prometheus, Grafana, ELK, API Gateway, SOC2

Senior Infrastructure Engineer - Federal Justice (Storage architecture and virtualization at Federal Justice)

Duration: Jan 2014 - Jan 2018

Summary:

- Specialized in storage architecture including SAN/NAS design, replication, and virtualization
- Managed VMware environments and automated server provisioning and configuration management using Ansible and Puppet

Responsibilities:

- Design, implement, and administer SAN/NAS storage solutions.
- Configure storage replication, virtualization, and multipathing for high availability.
- Manage VMware ESXi, vSphere, and vCenter environments.
- Automate server provisioning and configuration with Ansible and Puppet.
- Develop scripts in Shell, AWK, and Python for automation and maintenance.

Technologies: Linux, AWS, VMware, Docker, Kubernetes, Ansible (Roles, Inventories, Jinja2), Puppet, Python, AWK, Shell Scripting

Linux System Administrator - Information Technology Agency (Unix/Linux infrastructure maintenance at Information Technology Agency)

Duration: Jan 2008 - Jan 2014

Summary:

- Maintained Unix/Linux infrastructure supporting state-wide operations and mission-critical services
- Automated server administration and configuration management with Ansible and custom scripting

Responsibilities:

- Maintain Unix/Linux infrastructure and networking services (DNS, NFS, LDAP, SMTP, Apache).
- Automate server administration and configuration with Ansible roles and Jinja2 templates.
- Develop custom Bash, AWK, and Python scripts integrated with Ansible playbooks.
- Provide 24/7 support and implement high-availability solutions.

Technologies: Linux, Bash, AWK, Python, Ansible (Roles, Inventories, Jinja2), Apache, DNS, NFS, LDAP, SNMP, Shell Scripting, System Monitoring

CERTIFICATION

- AWS Solutions Architect Associate
- LPIC1 - Linux Professional Institute Certified
- UCP - Ubuntu Certified Professional
- CKS - Certified Kubernetes Security Speciality



- **CKA - Certified Kubernetes Administrator**
- **CKAD - Certified Kubernetes Application Developer**
- **AWS Certified DevOps Engineer - Professional**
- **GCP Professional Cloud DevOps Engineer**
- **Terraform Associate**
- **Gitlab Certified Associate**

EXPERTISE

Kubernetes Engineering & Cloud-Native Infrastructure

Hands-on experience managing large-scale K8s clusters across AWS and GCP with advanced tools like Istio, Karpenter, Kyverno and KEDA. Emphasis on service mesh, autoscaling, GitOps (ArgoCD), and high availability.

Infrastructure as Code (IaC) & Automation

- Strong use of Terraform and Terragrunt for scalable, automated infrastructure provisioning. Also skilled in tools like
- Ansible and Puppet, enabling consistent and efficient environment management.

CI/CD Pipeline Development & GitOps

- Ability to implement and maintain CI/CD pipelines
- across multiple cloud platforms using Jenkins, Azure DevOps, GitHub Actions, and ArgoCD. Focus on automation, deployment efficiency, and developer enablement.

Monitoring, Observability & Security

Expertise in building observability stacks using Prometheus, Grafana, ELK, Thanos, and AlertManager. Also ensures governance and policy compliance with tools like Kyverno, and handles secure API traffic with gateways like Kong.

Education

- **Master's Degree, Software Engineer - Computer Science - Research Area: DevOps**
Universidade Federal de Pernambuco
2013 – 2015
Research Area: DevOps - Continuous Integration, Continuous Delivery, Continuous Deployment, Pipeline Integration/Deployment, Infrastructure as Code, Canary Release, Toggled Features and blue-green deployments.
- **PostGraduate, Test Analysis**
Universidade Federal de Pernambuco
2006 – 2008
- **Bachelor's Degree, Computer Science**
Centro Universitário de João Pessoa (Unipê)
1999 – 2003

