

Fahdy Butt

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Cloud & DevOps Architect — Data Pipeline & Infrastructure Expert —AWS, Azure, GCP

SUMMARY

Experienced Cloud & DevOps Leader with 12+ years of expertise in Site Reliability Engineering , DevOps, and Cloud Infrastructure. Proven track record in designing and deploying scalable, high-performance cloud architectures across AWS, Azure, GCP, and IBM Cloud. Skilled in automating infrastructure with Infrastructure as Code (IaC) using tools like Terraform and Ansible and building CI/CD pipelines with Jenkins, GitLab CI, ArgoCD, and Helm. Expertise in optimizing system performance, containerization using Docker and Podman, and orchestration with Kubernetes and OpenShift. Hands-on experience in data engineering , including real-time data pipelines, ETL processes, and big data processing with technologies like Kafka, Spark, and Hadoop. Strong focus on security automation, disaster recovery, and cost optimization to ensure operational excellence and business continuity. Proficient in monitoring and logging using tools such as Prometheus, Grafana, ELK stack, and Datadog.

TECHNICAL SKILLS

- **Cloud Platforms** : AWS, Azure, GCP, IBM Cloud, Cloud Migrations, Multi-Cloud Architecture, Serverless (Lambda, Azure Functions, Google Cloud Functions)
- **DevOps & Automation** : CI/CD Pipelines, GitOps, Jenkins, GitLab CI/CD, ArgoCD, Spinnaker, Tekton, Harness, DroneCI, Octopus Deploy
- **Infrastructure as Code (IaC)** : Terraform, Kubernetes (K8s), OpenShift, Helm, CloudFormation, Pulumi, Azure ARM Templates, Packer
- **Containerization & Orchestration** : Docker, Podman, Kubernetes, OpenShift, Amazon ECS/EKS, Azure AKS, Google GKE, Helm Charts, Istio, Linkerd
- **Data Engineering** : Data Pipelines, ETL/ELT, Big Data (Hadoop, Spark, Hive), Kafka Streams, Apache Airflow, Real-Time Streaming, Data Warehousing (Redshift, BigQuery, Snowflake)
- **Security & Compliance** : Security Automation, Vulnerability Scanning, Secrets Management (Vault, AWS Secrets Manager), Compliance-as-Code (OPA, InSpec, AWS Config, Sentinel), SIEM (Splunk, Wazuh)
- **Monitoring & Observability** : Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Fluentd, Loki, Jaeger, CloudWatch, Azure Monitor, GCP Operations Suite, Datadog, New Relic
- **Performance & Optimization** : Capacity Planning, System Performance Tuning, Autoscaling, Cost Optimization, Infrastructure Benchmarking, Load & Stress Testing (JMeter, Locust, k6)
- **Networking & Reliability** : Load Balancing (ALB/NLB, HAProxy, Nginx), DNS Management (Route53, Cloud DNS, CoreDNS), Failover Mechanisms, Caching (Redis, Memcached, Varnish), CDN (CloudFront, Akamai, Cloudflare)
- **Configuration Management** : Ansible, Puppet, Chef, SaltStack, Infrastructure Automation, Drift Detection, Version Control (Git, GitOps)
- **Incident & Problem Management** : Troubleshooting, Root Cause Analysis (RCA), Incident Response, SRE Practices, Chaos Engineering (Gremlin, Litmus), Post-Incident Reviews
- **Collaboration & Agile** : Agile/Scrum, Kanban, JIRA, Confluence, Slack/MS Teams, Technical Leadership, Documentation, Mentoring

EXPERIENCE

MindK

Principal Cloud & DevOps Engineer

2019.04 - Present

- Spearheaded the end-to-end deployment of a highly available, multi-region Kubernetes cluster on IBM Cloud using OpenShift, significantly enhancing service reliability, reducing downtime, and minimizing latency for global users.

- Architected and implemented a real-time data processing pipeline utilizing Kafka Streams, Apache Spark, and AWS Lambda, enabling seamless real-time analytics for large-scale data ingestion and transformation.
- Developed and optimized automated CI/CD pipelines leveraging GitLab CI, Helm, and Terraform, leading to a significant reduction in manual interventions and accelerating deployment frequency.
- Designed and executed a robust disaster recovery and business continuity strategy across AWS and Azure, ensuring seamless failover and high availability while integrating automated security compliance checks.
- Led the design and implementation of a highly scalable, multi-cloud infrastructure strategy, optimizing resource utilization and reducing cloud expenditure by implementing dynamic auto-scaling, rightsizing, and proactive cost management practices.
- Implemented comprehensive monitoring and observability solutions, integrating Prometheus, Grafana, and ELK stack to ensure proactive issue resolution and minimize service disruptions.
- Collaborated with cross-functional teams to enhance DevSecOps practices, implementing security automation and compliance-as-code methodologies to fortify cloud environments.

Twilio

Senior Cloud Architect

2016.08 - 2019.04

- Led the design, deployment, and management of a resilient, scalable cloud infrastructure across AWS and Azure to support Twilio's global communication platform, ensuring high availability and performance optimization.
- Architected and implemented highly efficient CI/CD pipelines for microservices using Jenkins, GitLab CI, and Docker, reducing deployment downtime and significantly increasing release cycle velocity.
- Engineered an enterprise-grade data warehousing solution using Google BigQuery and Amazon Redshift, improving query efficiency and data accessibility for advanced analytics and reporting.
- Established an end-to-end monitoring and incident management framework incorporating Prometheus, Grafana, and the ELK Stack to enhance visibility, performance tracking, and real-time alerting.
- Integrated advanced security best practices within the CI/CD lifecycle, incorporating automated security scans, vulnerability assessments, and rapid patch deployment to mitigate security risks proactively.
- Designed and implemented serverless architectures using AWS Lambda and Azure Functions to enhance application scalability and reduce operational overhead.
- Conducted in-depth cost optimization analysis, implementing rightsizing and reserved instances strategies to significantly lower cloud expenditure without impacting performance.

Contino

Site Reliability Engineer (SRE)

2014.03 - 2016.08

- Led critical infrastructure optimizations to enhance high availability, minimize latency, and ensure fault tolerance across cloud-based services.
- Designed and implemented advanced auto-scaling and load balancing strategies within Kubernetes and AWS environments, resulting in a substantial reduction in cloud operational costs while maintaining peak performance.
- Developed and deployed an automated security compliance framework utilizing Puppet and Ansible, streamlining vulnerability assessments and patch management across cloud and on-premise environments.
- Conducted performance tuning and capacity planning initiatives, optimizing infrastructure scalability, improving service efficiency, and ensuring seamless resource allocation.
- Designed and maintained real-time monitoring and alerting solutions with Prometheus and Grafana, enabling proactive issue resolution and enhanced operational visibility.
- Implemented chaos engineering practices using tools like Gremlin and Litmus to test system resilience, identifying and mitigating potential failure points before they impacted production.
- Led migration efforts for legacy on-premise workloads to cloud-native environments, ensuring minimal downtime and optimal resource utilization.

CERTIFICATIONS

- AWS Certified Solutions Architect – Professional
- Google Professional Cloud Architect
- Microsoft Certified: Azure Solutions Architect Expert

- Certified Kubernetes Administrator (CKA)
- HashiCorp Certified: Terraform Associate
- Red Hat Certified Engineer (RHCE)
- Certified DevOps Professional (Docker, Jenkins, Kubernetes)

EDUCATION

University of California, Berkeley

Bachelor of Science, Computer Science