

MOHAMMED AHMAD

Senior DevOps Engineer | AWS Cloud Infrastructure & Automation

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PROFESSIONAL SUMMARY

Results-driven Senior DevOps Engineer with 5.2+ years of IT experience designing, automating, and scaling cloud infrastructure on AWS. Proven expertise in Infrastructure as Code using Terraform and Ansible, CI/CD pipeline engineering with Jenkins, and Container Orchestration with Docker and Kubernetes (EKS). Skilled in configuration management, monitoring and alerting with Prometheus and Grafana, and driving zero-downtime deployments across DEV, UAT, and PROD environments. Strong track record of Root Cause Analysis, cross-functional collaboration, and delivering reliable, secure, and cost-optimized infrastructure for enterprise clients in insurance and telecommunications.

CORE TECHNICAL SKILLS

Cloud Platform	AWS (EC2, VPC, S3, IAM, EBS, ELB, Auto Scaling, Route53, RDS, EFS, ECS, ECR, CloudTrail, CloudWatch)
IaC & Build Tools	Terraform, CloudFormation, Maven
Containerization	Docker, Kubernetes (EKS), Container Orchestration
CI/CD & Config Mgmt.	Jenkins CI, Ansible, Ansible Vault, Nexus
Version Control	Git, GitHub
Monitoring & Alerting	Prometheus, Grafana, CloudWatch, Alert manager, Dynatrace
Operating Systems	Linux, Ubuntu, Windows
Scripting	Bash Scripting, Shell Scripting
Application Servers	Apache Tomcat
Other Tools	JIRA, SonarQube, Argo CD

PROFESSIONAL EXPERIENCE

Optum Global Solutions — Senior DevOps Engineer

May 2021 – Present | India

Client: MetLife Insurance | Role: Senior DevOps Engineer | May 2023 – Present

Environment: Git, Maven, Jenkins, Nexus, Tomcat, Linux, Ansible, Terraform, Docker, Kubernetes

- Monitor and support production microservices applications, proactively identifying and resolving performance and availability issues.
- Lead deployment of application releases to UAT and PROD environments using Jenkins and Git-based CI/CD pipelines.
- Drive Root Cause Analysis (RCA) and resolution efforts, coordinating with cross-functional teams to minimize downtime.
- Implement and administer Jenkins CI, including job/plan configuration, master-slave setup, and multiple parallel build pipelines.
- Develop reusable Terraform modules to provision and manage AWS infrastructure, improving infrastructure stability and repeatability.
- Architect and manage containerized workloads using Docker, and build Kubernetes clusters via kubeadm for container orchestration.
- Configure GIT triggers and access-control policies to govern repository events and enforce branch protection standards.
- Participate in weekly release planning meetings with technology stakeholders to identify and mitigate release risks.
- Migrate legacy Terraform deployments with version conflicts to CloudFormation to resolve capability gaps and improve control.
- Author and implement change requests with stakeholder approvals during off-hours to maintain continuity of software updates.
- Maintain and monitor Dynatrace dashboards to track CPU load and infrastructure health, enabling proactive alerting.

Client: Optum Rx (Healthcare) | Role: DevOps Engineer | May 2021 – Apr 2023

Environment: Git, Shell Scripting, Tomcat, Linux, Maven, Nexus, Jenkins, Docker, Terraform, Ansible, AWS

- Owned day-to-day build and release operations as AWS Cloud DevOps Engineer, covering maintenance, enhancement, bug-fix, and emergency releases.

- Established resource tagging standards for accurate identification and ownership tracking of EC2 instances, CloudWatch, RDS, EBS, and S3 resources.
- Provisioned AWS infrastructure — VPC, EC2, S3, IAM, EBS, Security Groups, Auto Scaling, and RDS — using CloudFormation JSON templates.
- Built and managed Dev, Test, and Prod environments by provisioning and configuring EC2 instances for multiple applications.
- Migrated on-premise VMware VMs to AWS and managed EC2, S3, Route53, ELB, and EBS resources post-migration.
- Designed and implemented end-to-end CI/CD pipelines by integrating multiple tools with Jenkins for automated builds.
- Maintained Git repositories and access-control strategies; resolved merge conflicts and enforced branching and naming conventions.
- Automated environment promotion using Maven build scripts within Jenkins, streamlining artifact movement across environments.
- Built Continuous Integration and Continuous Delivery environments in Jenkins, including Jenkins DSL jobs for automated job creation.
- Configured Jenkins master-slave architecture to operate CI/CD as a scalable, pipeline-as-a-service platform.

EDUCATION

Bachelor's Degree in Computer Science — Palamuru University, 2021

KEY AREAS OF EXPERTISE

- Infrastructure as Code (IaC): Terraform module design for multi-environment (DEV/UAT/PROD) provisioning; CloudFormation.
- Container Orchestration: Kubernetes cluster setup, manifest and service file authoring, namespace-level resource quotas.
- CI/CD Engineering: Jenkins pipeline design, DSL job automation, master-slave architecture, zero-downtime deployments.
- Configuration Management: Ansible Playbooks, Ansible Vault for secrets management, automated server provisioning.
- Monitoring & Observability: Prometheus metrics collection, Grafana dashboarding, Alert manager notifications (email, Slack, PagerDuty).
- Cloud Security & Governance: IAM policy design, resource tagging, access control, and change management processes.

ADDITIONAL INFORMATION

Consistently recognized for reliable, self-driven ownership of production infrastructure, effective cross-team communication during incident response, and a continuous-improvement mindset toward automation, monitoring, and cost-efficient cloud operations. Open to relocation and remote engagements.