

# JEMAL MOHAMMED

DevOps Engineer | DevSecOps Engineer

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## EXPERIENCE

### DevSecOps Engineer

2021 - 2025

#### Base-2Solutions

Washington DC

- Built and maintained Golden AML images for developer workstations and environments including dev, staging, QA, and production.
- Developed Ansible roles to configure and update servers with environment-specific dependencies across production and non-production environments.
- Utilized Packer to create AMIs, streamlining image creation for repeatable and consistent environments.
- Automated AWS infrastructure provisioning using Terraform and CloudFormation, managing services like EC2, S3, RDS, Lambda, and VPC.
- Integrated Terraform and Ansible for provisioning resources and deploying Python-based applications to S3 and Lambda.
- Managed Dockerfiles and Bash scripts to ensure container compatibility with OpenShift security policies and runtime environments.
- Designed robust CI/CD pipelines using Jenkins and GitLab CI, including stages for unit testing, integration testing, security scanning, and deployments.
- Developed Jenkins multi-branch pipelines for parallel testing and deployments of microservices.
- Deployed Docker images and artifacts to Artifactory, integrating X-Ray for security scanning and compliance validation.
- Built custom Terraform modules for flexible deployments, triggered and managed through Jenkins pipelines.
- Participated in Agile Scrum ceremonies and supported incident response, root cause analysis, and post-deployment verification tasks.
- Improved application security by identifying and remediating an average of 15 vulnerabilities weekly using Snyk.
- Demonstrated advanced knowledge of security principles by performing infrastructure risk assessments across 8 environments.
- Established automated workflows for 12 repositories on GitHub Actions by replacing CircleCI, Jenkins, and Octopus configurations.
- Reduced system downtime by creating centralized monitoring dashboards using Prometheus and Grafana for proactive issue identification.
- Decreased manual errors and downtime by automating configuration management for 100 servers using Ansible roles and scripts.
- Developed Infrastructure as Code scripts with Terraform and Ansible to provision 25 scalable cloud environments.
- Increased test coverage by integrating automated testing frameworks (JUnit, Selenium) into 10 build pipelines.
- Provisioned 25 cloud environments by creating Infrastructure as Code scripts with Terraform and Ansible for Base-2Solutions.
- Increased developer efficiency by reducing Jenkins pipeline failures by 25% through configuring VS Code static analysis tools across 8 projects.
- Enabled early error detection in 10 CI pipelines by integrating VS Code extensions for real-time compile-time checks, minimizing failed builds by 20%.

## SUMMARY

DevOps & DevSecOps Engineer with 7+ years of experience in automating and securing cloud infrastructure. Expert in Infrastructure as Code (IaC), streamlining deployments for speed and reliability. Proficient in configuration management and container orchestration to build secure, scalable systems. Strong problem-solver focused on resilient, high-availability environments. Team-oriented and innovation-focused, driving continuous improvement and business alignment.

## SKILLS

Agile Management - Jira · Trello · Asana

Version Control - Git · GitHub · GitLab ·

Bitbucket · AWS CodeCommit ·

Subversion (SVN) · Mercurial

Artifact Management - Artifactory ·

Nexus · Amazon S3 · GitHub Packages ·

GitLab Package Registry

AWS Services - EC2 · RDS · Lambda ·

VPC · Auto Scaling ·

Load Balancer (ELB/ALB/NLB) ·

NACL (Network Access Control List) ·

Security Group ·

IAM (Identity and Access Management) ·

EFS (Elastic File System)

Infra as code tools - Terraform · Ansible ·

Packer · AWS CloudFormation · Pulumi ·

Chef · Puppet · SaltStack

Monitoring Tools - Nagios · Grafana ·

Prometheus · Splunk · Zabbix · Datadog ·

New Relic · ELK Stack · Elasticsearch ·

Logstash · Kibana · AppDynamics

## EXPERIENCE

### Cloud DevOps Engineer

06/2019 - 07/2021

Virginia

#### Logi Analytics

- Developed and maintained automated CI/CD pipelines using **Jenkins**, **Git**, **Bitbucket**, **Ansible**, and **Docker**, enabling consistent, error-free application builds and deployments.
- Authored Infrastructure as Code (IaC) using **Terraform**, **CloudFormation**, and **Ansible**, creating reusable and modular code to provision, configure, and manage cloud resources across environments.
- Deployed and managed microservices using **Docker**, **Docker Compose**, and orchestrated infrastructure for scalability and fault tolerance.
- Installed and configured monitoring and alerting solutions like **Nagios**, **Prometheus**, and **Grafana** to proactively monitor system metrics (CPU, memory, disk, and network).
- Managed AWS services including **EC2**, **RDS**, **S3**, **IAM**, **Lambda**, **API Gateway**, **CloudWatch**, and configured **Auto Scaling Groups**, **VPCs**, **ELBs**, and **Subnets** for secure and resilient cloud environments.
- Applied AWS security best practices by configuring **IAM roles/policies**, **NACLs**, **KMS encryption**, and key rotation, ensuring compliance and data protection.
- Performed routine tasks such as log analysis, performance tuning, patch management, backup verification, and user access management.
- Automated manual operational processes and routine maintenance using **Python**, **Bash**, and **Shell scripts** to improve efficiency and reduce human intervention.
- Conducted regular environment health checks, deployment validations, and incident resolution through root cause analysis and cross-functional team collaboration.
- Maintained Git repositories, managed merge conflicts, handled PRs, and enforced code branching strategies for clean release cycles.
- Partnered with developers, QA engineers, and product owners to design DevOps workflows aligned with Agile sprints.
- Mentored junior DevOps engineers, conducted code reviews, and led knowledge-sharing sessions across teams.
- Championed internal DevOps advocacy, promoting CI/CD culture, GitOps practices, and observability improvements.
- Built Slack-integrated chatbots to trigger deployments, report build statuses, and query environments for developer self-service.
- Built alerting dashboards in Grafana and Prometheus to monitor application health, latency, and infrastructure KPIs.

### DevOps Engineer

10/2016 - 06/2019

Virginia

#### ZoomData

- Engineered and managed scalable CI/CD pipelines using Jenkins, GitLab CI/CD, and GitHub Actions, standardizing workflow across environments and reducing deployment time by 60%.
- Automated over 70% of operational tasks with Bash, Python, and Ansible, enhancing efficiency in server setup and software maintenance.
- Consolidated legacy workflows by migrating them to GitHub Actions and incorporating Selenium and Postman for automated testing, improving software quality.
- Developed Ansible playbooks for consistent configuration management, including patching, SSL renewal, and user onboarding.
- Built versioned Terraform codebases, provisioning and deploying 120+ AWS servers for multi-account and multi-region scenarios.
- Implemented advanced deployment strategies such as blue/green and canary, minimizing release downtime and risk.
- Increased deployment speed by 65% with a custom Linux server provisioning tool, optimizing application rollouts on various environments.
- Participated in agile sprint planning sessions each quarter at ZoomData, collaborating with cross-functional teams to enhance development workflows.
- Reduced build issue resolution time by partnering with the developer and QA automation teams to identify and resolve CI/CD failures at ZoomData.
- Trained 15 QA engineers and developers on enhanced DevOps deployment processes at ZoomData, resulting in a 50% reduction in onboarding time.
- Enhanced CI pipeline visibility by connecting Slack channels for 5 teams at ZoomData, streamlining rapid notification of build results.
- Reduced code integration conflicts by 30% by implementing Jenkins build strategies with Bitbucket, streamlining feature and release branch merges for ZoomData.

## SKILLS

Programing - Python · Bash Scripting ·  
Declarative Language · JSON · YAML ·  
Java

Micro Service - Docker ·  
Docker Compose · Kubernetes · Helm ·  
OpenShift · EKS · ECS

Docker Images Scanning - JFrog Xray ·  
Aqua Security · Trivy · Snyk

Continuous Integration - Jenkins ·  
GitLab CI/CD · GitHub Actions ·  
Bitbucket Pipelines · CircleCI · Travis CI

Selenium WebDriver · JUnit · TestNG ·  
Cypress · Robot Framework · Cucumber

Build Management - Maven · Gradle · Ant ·  
Make

## ACHIVMENTS

💎 **Enhanced System Monitoring**  
Decreased incident response time by 40% with proactive monitoring solutions.

💎 **Deployment Acceleration**  
Reduced cloud deployment time by 55% through CI/CD automation.

💎 **Uptime Optimization**  
Improved infrastructure reliability to 99% uptime using IaC best practices.

## CERTIFICATION

**AWS Solutions Architect Associate**

AWS SERVICES

**AWS Developer - Deploying on AWS**

edX

## EXPERIENCE

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### Automation Engineer

01/2016 - 10/2016

#### FICO

CA

- Developed and maintained Selenium automation frameworks using the Page Object Model (POM) design pattern for UI and regression testing across web applications.
- Integrated Selenium tests into CI/CD pipelines using Jenkins and GitLab CI to enable automated test execution after each code commit or deployment.
- Automated end-to-end testing workflows across multiple environments (QA, staging, UAT, production) to validate stability, performance, and security.
- Wrote custom automation scripts using **Java**, **Python**, and **Bash** to eliminate manual operational tasks such as log parsing, service restarts, and deployment triggers.
- Built a chatbot using **Python and Slack APIs** to deploy applications automatically in QA, staging, developer, and UAT environments, providing real-time environment status and deployment results.
- Collaborated closely with QA and DevOps teams to synchronize test automation with CI/CD pipelines, significantly reducing time-to-feedback and deployment cycles.
- Automated test data setup and environment validation scripts to ensure smooth, repeatable test executions and reduce pre-testing overhead.
- Implemented headless browser testing with Selenium Grid and Docker containers to parallelize test execution and improve efficiency.
- Created test reports with tools like **Allure**, **ExtentReports**, and integrated results into Jenkins for visibility and tracking.
- Automated the verification of infrastructure and deployment processes using Python scripts to validate configuration drift, resource status, and service availability.
- Led initiatives to convert manual QA processes into automated pipelines, including smoke tests, health checks, and rollback validation.
- Supported shift-left testing strategies by integrating code quality checks, security scans, and automated test suites early in the development pipeline.
- Assisted in creating mocking/stubbing services to isolate testing environments from production dependencies using tools like **WireMock** and **Postman** collections.

## EDUCATION

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### MSC - Mechatronics Engineering

University of Trento

2011 - 2024

## FIND ME ONLINE

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LinkedIn

<https://www.linkedin.com/in/jemalpr ofile/>



Github

<https://github.com/jemalcloud>