

Ali Zeeshan

DevOps Engineer

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Islamabad



PROFESSIONAL SUMMARY

- Experienced DevOps Engineer with a strong background in infrastructure management, **CI/CD** automation, and cloud deployment.
- Skilled in architecting end-to-end **Jenkins** pipelines, implementing comprehensive **DevSecOps** practices, and orchestrating highly available containerized environments.
- Expertise in cloud infrastructure management on **AWS**, including **EC2**, **S3**, **IAM**, **VPC**, **RDS** and **lambda** serverless computing.
- Proficient in Linux system administration, network configuration, and performance monitoring.
- Proven track record of driving infrastructure optimization, security enhancements, and application performance improvements.
- Adept at utilizing a wide range of DevOps tools and technologies including **Docker**, **Docker Swarm**, **Kubernetes**, **Ansible**, and **Zabbix** for monitoring

PROFESSIONAL EXPERIENCE

DevOps Engineer

CodeAge Pvt Ltd

2023 - Present Islamabad, Pakistan

- Infrastructure & CI/CD Management**
Architected end-to-end **Jenkins** pipelines with stages: Code Checkout → Build → Unit Tests → Code Analysis (**SonarQube**) → Security Scans (**Trivy**, **OWASP**) → Artifact Generation → Image Build → Integration Tests → Deployment
Implemented comprehensive **DevSecOps** practices integrating security at every pipeline stage
Containerized microservices using **Docker** multi-stage builds with 60% size optimization
Orchestrated **Docker Swarm** deployments with **HA** configuration, **overlay networks**, secrets management, and automated health checks.
- Automation & Configuration Management**
Automated infrastructure using **Ansible** for server provisioning, application deployment, security hardening, and patch management
Managed **Git/GitHub** workflows including branching strategies, access controls, and automated code reviews
Configured **Maven** build processes with automated testing and deployment pipelines
- Cloud & Infrastructure (AWS)**
Managed **EC2** infrastructure including auto-scaling, **security groups**, **EBS volumes**, and **ECR** repositories
Implemented AWS security best practices with **IAM roles**, network security, and encryption configurations
- Monitoring & Security**
Enhanced **Prometheus** monitoring with custom templates, **SQL** queries, database monitoring, and stakeholder dashboards
Configured **NGINX/Apache** load balancing with **SSL** termination and **DNS** management

Project:

- Deployment of Application in AWS ECS via CI/CD Pipeline**
Created a **Docker** image that automatically builds and pushes **React** and **Django** application to **Amazon ECR**. This was made possible by utilizing **Jenkins** to create a **CI/CD** pipeline that automatically pulls into **AWS ECR**.
The workflow implemented **Docker Compose** to build an image and push the resulting **Docker** image to an **AWS ECR** registry via a **CI/CD** pipeline. The final step involved deploying the application to an **AWS ECS** cluster for efficient containerized application management.

SKILLS

CI/CD & Automation

Jenkins (Pipeline as Code)

CI/CD workflows on AWS

CodeCommit - CodePipeline and CodeBuild

Git - GitHub - GitLab

Maven

Ansible (Playbooks)

Python

Cloud & Infrastructure:

EC2

IAM

VPC

Route 53

S3

CloudWatch

CloudTrail

Lambda

ECR

ECS/EKS

CloudFormation

Infrastructure as Code

Terraform

Load Balancer - Reverse Proxy (NGINX)

Monitoring & Security:

Zabbix (Enterprise monitoring)

Prometheus & Grafana

ELK stack

Code Quality & Security - SonarQube

Vulnerability Scanning - Trivy

Web Application Security - OWASP

Encryption - SSL/TLS Management

Security compliance automation

CloudWatch

CloudTrail logging

VPCs - Security groups

Network ACLs

Compliance audits

SELinux hardening

IAM policies

PROFESSIONAL EXPERIENCE

project

•**Deploying Applications with High Availability using Orcharaction Tool**
Configured Kubernetes clusters and deployed their application with high availability. This means that even if one node in the cluster fails, the other node will ensure that the application is always available. This is achieved through Kubernetes clustering and orchestration capabilities.In this project, I spearheaded the deployment and optimization of a two-tier application, comprising Flask and MySQL, to handle a load of 20,000 concurrent users. Leveraging AWS EKS (Elastic Kubernetes Service)

CLOUD EXPERIENCE: AWS

- Compute & Scalability (EC2)**
Deployed and managed **EC2** instances for scalable and reliable application hosting, utilizing Auto **Scaling** to optimize performance and **cost-efficiency**.
- Storage & Database (S3)**
Set up and managed **S3** buckets for secure and efficient storage solutions, including **backup** and data lifecycle policies. Integrated S3 with other AWS services for streamlined data handling and storage optimization.
- Identity & Access Management (IAM)**
Implemented **IAM roles**, policies, and multi-factor authentication to secure cloud infrastructure, ensuring compliance and access control for all resources.
Networking & Security (VPCs - ACLs)
- Configured VPCs, subnets, security groups, and network **ACLs** to create secure, isolated network environments. Used **CloudWatch** and **CloudTrail** for monitoring, logging, and auditing AWS resources to enhance system visibility and security.
- Serverless Computing (Lambda)**
Event-Driven Architecture
Developed **Lambda** functions to respond to events from services like **S3**, **EC2**, and **SNS**, enabling automated, real-time processing across applications.
Microservices Deployment
Built and deployed serverless microservices using Lambda, achieving **high scalability** with reduced infrastructure management overhead.
Resource Optimization
Configured Lambda functions for optimal performance, adjusting memory and execution time settings to enhance cost-efficiency and resource utilization.

Linux System Administrator Optimum Tech

- 📅 2022 - 2023 📍 Lahore
- Administered and maintained enterprise Linux systems (**RHEL 7/8**), managing system configurations, security patches, and updates using YUM/RPM
 - Implemented and managed storage solutions including **LVM**, partitioning, and **RAID** configurations for optimal system performance
 - Configured and maintained critical network services including **Apache**, **DNS**, **NFS**, and **FTP** servers in production environments
 - Established robust **backup** and recovery procedures using various tools including **rsync** and **tape** backups
 - Implemented system monitoring and performance optimization using tools like **top**, **htop**, **iostat**, **netstat**, **pidstat** and custom scripts
 - Managed user access controls and implemented advanced permissions (**SUID**, **SGID**, **Sticky bits**) according to security best practices
 - Configured and maintained high-availability solutions using **Keepalived** for critical services
 - Automated routine system administration tasks using **cron** jobs and shell scripts
 - Managed network configurations including **IP** addressing, **routing**, and **firewall** rules using **iptables**

SKILLS

Containerization and Orchestration:

- Docker (Multi-stage builds)
- Docker Swarm - Service scaling
- Kuberntes cluster management
- Container Registry (Docker Hub - AWS ECR)

Linux Administration:

- Operating Systems RHEL 7/8 CentOS Ubuntu
- System Administration: User/Group Management - Process Management
- Storage Management: LVM - Disk Partitioning - RAID - File Systems (ext4 - xfs)
- Network Services: Apache - DNS - NFS - FTP - SAMBA
- Security: SELinux - Firewall Configuration - TCP Wrappers - Advanced Permissions
- Backup & Recovery: Rsync - Tape Backups - Snapshot Management
- Performance Monitoring: top - iostat - netstat - tcpdump
- Package Management: YUM - RPM - apt get
- High Availability: Keepalived - Load Balancing
- Networking: IP Configuration - Routing - Network Protocols

EDUCATION

B.S. Computer Science
Minhaj University Lahore

📍 Lahore, Pakistan

GPA
3.27 / 4.0