

# UMAR FAROOQ

## DevOps Engineer

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📍 Lahore, Pakistan



### SUMMARY

I am an experienced DevOps Engineer skilled in infrastructure management, CI/CD automation, and cloud deployment. My expertise includes architecting Jenkins pipelines, implementing DevSecOps practices, and managing containerized environments. I excel in Linux administration, network configuration, and utilizing AWS tools effectively to optimize infrastructure performance. My strengths lie in automation, security enhancements, and performance monitoring.

### EXPERIENCE

#### DevOps Engineer

**Extravis** 📅 07/2023 - Present 📍 Islamabad, Pakistan

A company focused on providing innovative solutions and services.

- **Designed and implemented end-to-end Jenkins CI/CD pipelines** incorporating multiple stages: Source Code Checkout → Build (Maven/Gradle) → Unit Testing (SonarQube for code quality analysis) → Security Scanning (Trivy for container vulnerabilities, OWASP Dependency-Check for dependency security) → Artifact Packaging → Container Image Creation → Integration Testing → Production Deployment. **Integrated robust DevSecOps practices**, embedding security checks seamlessly across all pipeline stages, enhancing application security and compliance. **Optimized Docker container builds** using multi-stage techniques, achieving a 60% reduction in image size while ensuring high performance and minimal attack surface. **Engineered high-availability Docker Swarm clusters** with fault-tolerant configurations, overlay network management, secure secrets handling, and automated container health monitoring.
- **Automation & Configuration Management**
- **Automated infrastructure provisioning and configuration management** using Ansible for tasks such as server setup, application deployment, OS-level security hardening, and patch lifecycle management. **Managed Git workflows and GitHub repositories**, implementing advanced branching strategies (e.g., GitFlow), role-based access controls, and automated pull request/code review pipelines. **Configured advanced Maven build processes**, including continuous integration testing and automated deployment strategies aligned with software development lifecycle (SDLC) best practices.
- **Cloud & Infrastructure (AWS)**
- **Administered AWS EC2 instances and services**, including configuring Auto Scaling Groups (ASGs), Elastic Block Store (EBS) volumes, and Elastic Container Registry (ECR) for seamless application deployment and scalability. **Applied AWS security best practices**, such as Identity and Access Management (IAM) roles/policies, Virtual Private Cloud (VPC) configurations, security group/firewall rules, and data encryption (at-rest and in-transit). **Streamlined cost-effective cloud operations** with rightsizing recommendations, efficient resource tagging, and budget monitoring.
- **Monitoring & Security**
- **Enhanced observability with Prometheus**, developing custom metrics exporters, SQL-based performance dashboards, and tailored visualizations for critical infrastructure components to meet stakeholder needs. **Configured robust web traffic management and load balancing** using NGINX and Apache, including SSL termination, reverse proxy setups, and DNS integration for high availability and performance. **Strengthened operational security** by integrating automated vulnerability scanning, secure TLS configurations, and comprehensive logging/auditing mechanisms.

### SKILLS

CI/CD	Jenkins	Pipeline as Code		
CI/CD workflows on AWS CodeCommit				
CodePipeline	CodeBuild	Git	GitHub	
GitLab	Maven	Ansible	Playbooks	
Python	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		
SonarQube		Vulnerability Scanning		
Trivy	Web Application Security		OWASP	
Encryption		SSL/TLS Management		
Security compliance automation				
CloudWatch logging		CloudTrail logging		
VPCs	Security groups	Network ACLs		
Compliance audits		SELinux hardening		
IAM policies		Containerization		
Orchestration		Docker		
Multi-stage Builds		Docker Swarm		
Service Scaling				
Kubernetes Cluster Management				
Container Registry		Docker Hub		
AWS ECR				

EXPERIENCE

Linux System Admin

AOne Tech. Solutions 01/2022 - 01/2023 Lahore, Pakistan

- A technology solutions provider specializing in IT infrastructure management.
- Maintained and supported Linux-based servers and network infrastructure.
  - Developed scripts for system automation, enhancing operational efficiency.
  - Coordinated with cross-functional teams to support application deployment and maintenance.
  - Monitored system performance and implemented tuning measures to optimize resource utilization.
  - Troubleshoot and resolved hardware, software, and network issues to minimize downtime.

PROJECTS

MonteX

01/2023 - Present Islamabad, Pakistan

- Project focused on monitoring, logging, alerting, and network configuration.
- Spearheaded the deployment of MonteX, a Python-based platform designed to streamline business workflows through robust monitoring, logging, alerting, and network configuration capabilities.
  - Architected and implemented CI/CD pipelines using Jenkins, Docker, and GitHub, automating the processes of code building, testing, and deployment.
  - Containerized and deployed backend and frontend services with Docker Compose, enabling seamless multi-container orchestration for enhanced scalability and maintainability.
  - Configured Docker volumes and networking to ensure secure, persistent data handling and efficient inter-container communication.
  - Integrated DevSecOps practices, incorporating SonarQube for code quality checks, Trivy for vulnerability scanning, and automated security checks into the pipeline.
  - Orchestrated production-ready environments using AWS ECS and Load Balancers, achieving high availability and scalability for containerized applications.
  - Enhanced system monitoring and alerting by integrating Prometheus and Grafana, providing real-time insights into application performance and infrastructure health.
  - Collaborated with development teams to optimize deployment strategies, leveraging auto-scaling and IAM roles for secure and scalable cloud infrastructure.
  - Implemented CloudWatch for log aggregation and anomaly detection, ensuring a robust troubleshooting process and reduced downtime.

EDUCATION

Bachelor in Computer Science

University of Okara 01/2018 - 01/2022 Lahore, Pakistan

SKILLS

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	pidstat	Package Management	
YUM	RPM	apt-get	High Availability
Keepalived	Load Balancing	Networking	
IP Configuration	Routing		
Network Protocols			