MUHAMMAD MUSHARAF K
DEVOPS ENGINEER

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Profile Summary

Certified AWS Solutions Architect with over 3+ years of hands-on experience as a DevOps Engineer. Skilled in designing robust CI/CD pipelines, automating infrastructure provisioning, and managing scalable, secure cloud environments. Proficient in Kubernetes, Python scripting, and leveraging AWS and GCP platforms for cost-efficient and reliable solutions. Adept at collaborating with cross-functional teams to enhance system performance and ensure seamless software delivery. Committed to driving innovation and efficiency across the software lifecycle.

KEY SKILLS& COMPETENCIES

- Cloud Platforms: AWS (EC2, S3, RDS, Lambda, CloudFormation, IAM, ECS, EKS), Azure, GCP, Akamai
- DevOps & CI/CD: Jenkins, GitLab CI/CD, GitHub Actions.
- Infrastructure as Code (IaC): Terraform, CloudFormation, Ansible
- Containerization & Orchestration: Docker, Kubernetes (K8s)
- Programming & Scripting: Python, Bash
- Configuration Management: Ansible,
- Operating Systems: Linux (Ubuntu, CentOS), Windows
- Monitoring & Logging: Prometheus, Grafana, ELK Stack, CloudWatch, Splunk
- Version Control: Git, Bitbucket
- Security and Compliance: IAM, network security, data protection, CIS Benchmarks, NIST Framework
- Database & Storage: MySQL, PostgreSQL, MongoDB, Elasticsearch
- Networking: Load Balancers, VPN, VPC, DNS, Networking Fundamentals
- Databases: MySQL, PostgreSQL, MongoDB, Redis.
- Cloud Services: ECS, RDS, S3, SLB, VPC, CloudFormation
- Tools & Collaboration: JIRA, Confluence, Slack Bots, Agile/Scrum Frameworks

PROFESSIONAL EXPERIENCE

DevOps Engineer | Site Reliability Engineer

Company: Cloud Control Solutions Inc   *June 2022-Present*

- Designed and implemented scalable infrastructure for AI model deployment and management, ensuring high availability and cost efficiency.
- Automated infrastructure provisioning using Terraform and Ansible, reducing setup time by 50%.
- Developed and maintained CI/CD pipelines with GitLab CI/CD and Jenkins, improving deployment frequency by 40%.
- Monitored production systems using Prometheus, Grafana, and ELK stack, achieving 99.9% system uptime.
- Conducted root cause analyses and post-mortem reviews to enhance system reliability and mitigate recurring issues.
- Secured infrastructure by managing secrets with AWS Secrets Manager and ensuring compliance with SOC2 standards.
- Optimized streaming architectures using Kafka and RabbitMQ for real-time AI applications.
- Implemented robust logging and alerting solutions with Prometheus and Grafana, reducing incident response times by 30%.
- Collaborated with QA teams to integrate new features into production seamlessly, adhering to security best practices.
- Deployed Kubernetes clusters for containerized applications, streamlining operations and reducing resource costs.
- Improved system scalability by implementing Infrastructure as Code with CloudFormation.

KEY PROJECTS

Large IT security company   Client: ApexaIQ, USA

- Architected a containerized environment using Kubernetes on AWS EKS, optimizing resource allocation and achieving a 30% decrease in operational costs while ensuring high availability for critical applications.
- Led the setup of GitOps-based CI/CD pipelines using CLOUD CONTROL APPZ, automating deployments across multiple Kubernetes clusters (AWS EKS, MicroK8s) in DEV, QA, PROD, and PROD2 environments.
- Implemented observability tools like Prometheus, Grafana, and ELK Stack for real-time performance monitoring, alerting, and application metrics visualization.
- Successfully migrated datasets, including MongoDB, ensuring zero downtime and maintaining data integrity across environments.
- Managed AWS EKS clusters across multiple regions, deploying PROD workloads and enabling VPC peering for secure inter-cluster communication.

Banking Applications, INDIA   Client: FEDERAL BANK, INDIA

- Engineered an NGINX-based API Gateway deployed as Docker containers across VMs, achieving a 5x increase in Requests Per Second (RPS), handling 10–15k RPS to enhance scalability and performance.
- Implemented two-way SSL to ensure secure client-Gateway communication, enhancing encryption protocols.
- Automated configuration management with scripts, enabling seamless updates and high availability without downtime.
- Developed a User Monitoring System for authentication and audit logs using Python, exporting logs to Prometheus metrics endpoints and visualizing them in Grafana.
- Automated deployment of the monitoring setup across multiple servers using Ansible, ensuring consistent configurations and streamlined operations.

FinTech – AI-Powered Stock Trading Platform   Client: Trade Ideas LLC, USA
Kubernetes Modernization with MicroK8s, LKE, and Akamai

- Migrated legacy C++ applications from manual execution via Makefile and systemd services to modern containerized deployments using Docker and Kubernetes.
- Created custom Docker images for each application and deployed them as Pods across MicroK8s and Linode Kubernetes Engine (LKE) clusters.
- Leveraged one-click deployment capabilities of the CLOUD CONTROL APPZ platform to streamline application rollouts.
- Delivered SRE as a Service, implementing robust CI/CD automation to support continuous delivery, high availability, and operational resilience.
- Integrated Akamai Linode services, including firewalls and Kubernetes (LKE), to enhance infrastructure scalability, performance, and security.

CERTIFICATIONS

- AWS Solution Architect -Associate Certificate.
- In progress: AWS Certified DevOps Engineer – Professional

EDUCATION

Calicut University   2018-2021

Bachelors of computer science