FAISAL KHAN

AWS, DevOps Engineer

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OBJECTIVE

Passionate about cloud technologies and automation, aiming to excel as an AWS Solution Architect and DevOps Engineer to drive the creation of innovative, cost-efficient cloud solutions.

EXPERIENCE

Full Stack Academy

AWS DevOps Engineer

- Implement GitHub Artifacts with Jenkins CI/CD for automated builds. Automated CI/CD pipelines across multiple environments. Reduced deployment time by 30% through streamlined processes.
- Actively worked on various AWS services, including EC2, S3, VPC, ELB, Auto Scaling, Cloud Formation, EBS, EFS, ECR, IAM, ECS, SSM WAF, ASG and Others.
- Basic exposure to networking concepts: DNS, TCP/IP, and load balancing.
- My DevOps skillset encompasses Git/GitHub, Jenkins, Maven, Trivy, SonarQube, Ansible, Docker, Terraform, Grafana, Prometheus.
- Performed incident troubleshooting, log analysis, and basic root cause analysis. Worked with IAM roles, security groups, and Kubernetes secrets for secure access.

EDUCATION

Swathi Institute Of Technology & Sciences   **2023**

Bachelor Of Engineering (BE- Computer Science)

CERTIFICATIONS

- AWS & DevOps Certificated - FSA
- Linux Certification - FSA
- Cloud Computing- FSA
- DevOps Certificated - Elevate Labs
- Web Development Using WordPress - Azure Skynet Solutions
- Web Development Using HTML and CSS - Azure Skynet Solutions
- MYSQL - Azure Skynet Solutions
- Application Development - Azure Skynet Solutions
- Machine Learning - Azure Skynet Solutions

SKILLS:

AWS:

EC2, S3, VPC, RDS, EBS, EFS, IAM, SSM AMI, SNS, ELB, ECS, WAF, ASG, Route 53, AWS Lambda, CloudTrail, CloudWatch, CloudFront, Cloud Formation, Elastic Beanstalk.

DevOp Tools:

Maven, Nginx, SonarQube, Tomcat, Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, Ansible, Nexus, Groovy, Slack, Trivy, Splunk, Apache, Jira, Loki, Promtail, Grafana, Prometheus, ELK Stack, Datadog.

Version Control:

Git & GitHub

SCRIPTING:

Shell Script, Bash Script

DEVELOPMENT:

HTML, CSS, JS, PHP, MYSQL, WordPress

OS:

Linux, Windows

PROJECTS

Deployment and CI/CD Implementation for a React Application:

- Implemented a Jenkins-based CI/CD pipeline with multi-environment deployments.
- Integrated SonarQube for static code analysis and quality checks.
- Built and scanned Docker images using Trivy for vulnerability detection.
- Deployed applications to AWS EKS using Helm with rollback support.
- Configured Slack notifications for build and deployment status.
- Maintained stability via Docker cleanup and automated rollback.

Infrastructure as Code (IaC) Automation with Terraform for AWS:

- Designed and provisioned AWS infrastructure using modular Terraform.
- Configured S3 backend for Terraform state storage with versioning enabled.
- Implemented DynamoDB state locking for safe Terraform state management.
- Built multi-environment EKS infrastructure (Prod, QA, Staging) using environment-specific tfvars.
- Provisioned SSM-enabled EC2 nodes for secure, keyless access to EKS worker nodes.
- Modularized EKS and IAM resources into reusable Terraform modules for scalability.
- Automated Jenkins deployment on EC2 with IAM roles, pipelines, and required plugins.
- Automated SonarQube deployment on EC2 using IAM roles and secure credentials.

AWS EC2 Website Hosting with CloudFront and Route 53:

- Hosted a web application on AWS EC2 with CloudFront CDN integration.
- Configured Route 53 DNS records for custom domain resolution.
- Enabled HTTPS using CloudFront SSL/TLS for secure web access.
- Ensured scalable and highly available content delivery on AWS.

Kubernetes Deployment with Multi-Database Integration And Monitoring:

- Integrated Amazon RDS databases (MySQL, Oracle, PostgreSQL) with Kubernetes using ExternalName services to enable scalable and reliable connectivity.
- Secured database credentials by implementing Kubernetes Secrets, ensuring controlled access and improved security posture.
- Implemented Prometheus monitoring to collect CPU and system-level metrics, supporting proactive performance monitoring and troubleshooting.
- Centralized application and infrastructure logs using Loki and Promtail, with Grafana dashboards for real-time visualization and analysis.

Three-Tier Application Deployment on AWS ECS:

- Deployed a 3-tier application on AWS ECS, including a frontend website, Java backend, and MySQL database container, ensuring modular and scalable architecture.
- Configured ECS services and task definitions to manage container orchestration efficiently.
- Integrated the Java backend API with the frontend website, enabling seamless communication and functionality.
- Deployed a MySQL database container for persistent data storage and high availability.
- Implemented Amazon CloudWatch monitoring to track performance metrics and scale resources automatically based on demand.