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Azeemuddin Shaik

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PROFESSIONAL SUMMARY

Cloud DevOps Engineer with hands-on experience in designing, deploying, and managing scalable, fault-tolerant infrastructure on AWS and Google Cloud Platform (GCP).

Proficient in Infrastructure as Code (IaC) using Terraform with expertise in provisioning VPC architectures, EC2, RDS Aurora, ElastiCache, and EFS.

Adept at deploying and managing containerized applications on Google Kubernetes Engine (GKE), implementing CI/CD pipelines using Jenkins, GitLab, GitHub Actions, and Argo CD, and performing zero-downtime rolling and canary deployments.

Skilled in developing serverless applications with AWS Lambda, API Gateway, and DynamoDB, and automating infrastructure provisioning and updates through declarative YAML, Terraform modules, and scripting.

Strong background in monitoring, security best practices, and performance optimization through autoscaling, HPA, and stress-testing.

Committed to delivering highly available, secure, and cost-effective cloud solutions that support continuous delivery and agile development practices.

TECHNICAL SKILLS

- **Cloud Platform:** AWS, GCP.
- **Infrastructure as Code (IaC) Tools:** Terraform, Ansible.
- **Containerization & Orchestration:** Docker, Kubernetes
- **Version Control:** Git, GitHub, GitLab
- **Operating Systems:** Ubuntu, Windows, Linux
- **Integration Tools (CI/CD):** GitLab CI, Jenkins, GitHub Actions, Argo CD.
- **Monitoring Tools:** Prometheus, Grafana.
- **Technical Skills:** Python, Shell Scripting, Bash.
- **Database:** MySQL, PostgreSQL, DynamoDB, RDS.
- **Soft Skills:** Communication, Adaptability, Time Management**,** Collaboration, continue learning**.**

WORK EXPERIENCE

WEBIQRA PVT LTD   **April 2024 - Present**
Role: Cloud DevOps Engineer

- Designed and deployed a multi-AZ, fault-tolerant VPC architecture using AWS CloudFormation with public, application, and database subnets.
- Provisioned Amazon RDS Aurora with cross-AZ replication for high availability and performance.
- Integrated Amazon ElastiCache (Redis) for caching and Amazon EFS for shared storage across Word-Press EC2 instances.
- Deployed an Application on EC2 using Launch Templates and Auto Scaling Groups, frontend by an ALB
- Enabled internet access to private subnets using NAT Gateways and secured public resources with custom Security Groups.
- Implemented S3 static website hosting with custom bucket policies and routing configurations.
- Automated web server provisioning with EC2 user-data scripts; mounted EFS volumes using NFS.
- Built and deployed serverless applications using Lambda, API Gateway, DynamoDB, and AWS SAM.
- Enhanced serverless apps using Python Boto3 to integrate S3 and DynamoDB with robust input validation and error handling.
- Connected securely to EC2 and RDS using AWS Session Manager, avoiding public exposure.
- Stress-tested ALB+ASG architecture to validate auto healing and scalability during AZ failures.
- Provisioned infrastructure using Terraform, including reusable modules for AWS Infrastructure.
- Enabled Terraform remote state management with S3 and DynamoDB for collaborative workflows.
- Integrated Terraform into CI/CD pipelines, ensuring automated, repeatable deployments.
- Integrated Jenkins Master-Slave Architecture and Optimizing CI/CD Pipelines using Jenkins, GitLab,

GitHub actions.
- Integrated Argo CD Image Updater to automatically track and deploy container image updates from registries and image update strategies latest tag detection with webhook/Git-based automation
- Configured Horizontal Pod Autoscaler (HPA) and resource limits to optimize performance and scalability under variable workloads and performed zero-downtime rolling updates and canary deployments.
- Deployed monolithic and microservices-based applications to Google Kubernetes Engine (GKE) using kubectl and YAML manifests.
- Created and managed Kubernetes Deployment, Service, and Ingress resources to orchestrate scalable containerized applications.
- Built and applied deployment configurations using declarative YAML files for version-controlled and repeatable deployments.
- Performed rolling updates and rollbacks in Kubernetes to maintain high availability and support zero-downtime releases.
- Configured Kubernetes Horizontal Pod Autoscaler (HPA) to automatically scale applications based on resource metrics.
- Implemented Kubernetes ConfigMaps and Secrets for environment-specific configuration and secure credential handling.
- Used GKE Workloads dashboard and kubectl logs, describe, and get commands to debug pod issues and monitor application health.
- Containerized applications using Docker and pushed images to Google Container Registry (GCR) for Kubernetes deployment.
- Migrated legacy monolithic architecture to a scalable microservices architecture running on GKE with minimal downtime.
- Enabled secure application communication in GKE using internal load balancing and namespace isolation.
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CERTIFICATIONS

- **AWS Cloud Technology Consultant Certificate | Hands-on.**
  https://coursera.org/share/342c27d7e0b272ab6077c63427cde1b1

EDUCATION

RKLK College / Mahatma Gandhi University, Suryapet-TS, India.
 Bachelors in **Computer Science** with **7.91 CGPA.**