



Sikinder Baig Mohammed

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PROFESSIONAL SUMMARY:

Dynamic and results-driven Cloud Platform Engineer with over 6 years of extensive experience in designing, implementing, and managing cloud infrastructure on AWS. Proven expertise in leveraging Infrastructure as Code (IaC) to streamline operations, enhance system performance, and ensure high availability and disaster recovery. Adept at collaborating with cross-functional teams to deliver next-generation digital health solutions and maintaining rigorous standards of security and compliance. Demonstrated ability to automate and optimize processes using Ansible and Terraform, ensuring consistent and repeatable infrastructure deployment.

SKILL SET

- **Cloud:** AWS
- **CI/CD:** Jenkins, AWS CodePipeline, AWS CodeBuild, Github-Actions, GitLab CI
- **Configuration Management:** Ansible
- **Containerization:** Docker, Kubernetes
- **Databases:** MySQL, PostgreSQL, Athena, DynamoDB, MongoDB
- **Infrastructure as Code:** CloudFormation, Terraform
- **Monitoring:** Splunk, Cloudwatch, Prometheus and Grafana
- **Operating Systems:** Amazon Linux 2, RHEL 7 & 8, Windows 2016, Windows 2019, Mac OS X+
- **Scripting Languages:** Shell, Python
- **Version Control:** GitHub, BitBucket, AWS CodeCommit
- **Webserver:** Nginx
- **Application Server:** Apache Tomcat, WebSphere

Employment Experience:

Takeda Pharmaceuticals U.S.A., Inc.

Duration: Feb 2021– Present

Role: Cloud Platform Engineer

Roles & Responsibilities:

- Provisioned and managed AWS environments using infrastructure-as-code (CloudFormation and Terraform), collaborating with development teams to design deployment and patching strategies, and working closely with infrastructure, network, and security teams for meticulous capacity planning and seamless system performance.
- Partnered with product leads, scrum masters, and business customers to define feature specifications, leading the development of next-generation digital health solutions and ensuring robust disaster recovery and high availability measures were implemented.
- Participated in support rotations to promptly address system health alerts, evaluating issues alongside helpdesk, managed services, and cloud ops teams to maintain optimal system performance.
- Developed and maintained comprehensive application documentation in adherence to Takeda Quality Systems and Software Development Life Cycle standards, ensuring consistent and thorough project records.
- Applied software configuration management principles across Agile, Scrum, and Waterfall methodologies, developing CloudFormation templates to provision AWS resources such as IAM, VPC, EC2, ASG, ELB, SG, RDS, FSX, KMS, CloudWatch, CloudTrail, and S3.
- Established robust Code Pipelines for secure and standardized CloudFormation deployments, leveraging GitHub Actions and AWS CodeBuild to automate package installations and configuration procedures, streamlining application setup with efficient automation practices.
- Implemented multi-stage Docker builds with distroless images, reducing image sizes by over 50% and enhancing security against OS-level vulnerabilities, and monitored and managed AWS EKS clusters utilizing Thanos/Prometheus and Grafana.
- Enforced automated Kubernetes cluster security governance using Kyverno policy generator and Argo CD, ensuring compliance and security across deployments, while securing backup strategies for Kubernetes clusters using Velero.
- Led the enhancement of AMI release pipelines, catering to various OS versions including Amazon Linux 2, RHEL 7 & 8, EKS Golden AMI, Windows 2016, and Windows 2019, and streamlined update processes to minimize disruptions.
- Utilized the Ansible Automation platform to automate the configuration, provisioning, and orchestration of AWS environments and resources, developing and maintaining Ansible scripts and configurations to manage AWS resources in alignment with organizational standards and best practices.
- Implemented Terraform to define and provision AWS infrastructure as code, ensuring consistency and repeatability in environment setup, and collaborated with cross-functional teams to manage AWS infrastructure effectively, supporting development and operations teams.
- Managed deployment and configuration of infrastructure across 400+ AWS accounts spanning multiple regions, leading the implementation of robust disaster recovery and high availability measures, and using the Terraform AVM (Account Vending Machine) Pipeline to automate the deployment of security-sensitive resources across all functional accounts.

Foundation Medicine**Duration: Nov 2019 - Nov 2020****Role:** Cloud Engineer**Roles & Responsibilities:**

- Demonstrated proficiency with a wide range of AWS services, including EC2, S3, RDS, ECS, EKS, Lambda Functions, Systems Manager, Secrets Manager, ACM, ELB, Security Groups, Auto Scaling, CloudWatch, and CloudTrail, ensuring robust system configurations and reliable monitoring.
- Streamlined Kubernetes objects in EKS clusters by managing deployments, horizontal pod autoscaling (HPA), services, RBAC, ingress controllers, operators, IAM OIDC providers, custom resources, and PKI for TLS, utilizing Helm and Helmfile, and parsing JSON objects with jq for efficient management.
- Expertly utilized CloudFormation to architect resources such as standalone EC2 instances, ECS clusters, S3 buckets, and resource groups, enhancing operational efficiency and ensuring adherence to AWS best practices for scalability and reliability.
- Managed Agile project tasks and updates through JIRA, ensuring streamlined communication and task tracking, and utilized GitHub as a version control repository to facilitate efficient code collaboration and management.
- Engineered a Jenkins JDK11 agent to enable smooth execution of repositories developed with Java JDK 11, and automated RDS SSL/TLS certificate updates for over 240 databases using a custom Shell script, successfully transitioning from rds-ca-2019 to rds-ca-2021 certificates.
- Optimized CloudFormation stacks to rectify tag discrepancies across existing resources, enhancing resource management and auditing capabilities, and provided crucial infrastructure support by diagnosing and resolving Jenkins build failures, improving overall system reliability.
- Utilized AWS Elastic Container Registry (ECR) for managing Docker images, authored Dockerfiles, built and scanned images with Aqua Security, and automated image creation with Packer, ensuring secure and efficient image management.
- Engineered a comprehensive CloudFormation template for deploying the MineMeld Application on ECS clusters, catering to the Networking team's threat modeling and intelligence processing requirements.
- Led regular maintenance activities, including patch applications and upgrades for Jenkins and SonarQube, bolstering system performance and security, and integrated SonarQube with Jenkins for automated code quality checks, reducing code defects by 15%.
- Collaborated with application teams to offer technical assistance in diagnosing and resolving cloud platform issues, ensuring seamless availability of services critical for physicians relying on tests to guide their patients' treatment decisions.

American Express**Duration: May 2018 – Oct 2019****Role:** DevOps Engineer**Roles & Responsibilities:**

- Implemented a Proof of Concept (POC) to enhance application security using Run-time Application Self-Protection (RASP) through HDIV, demonstrating expertise in safeguarding against OWASP's top 20 vulnerabilities, including CSRF protection, SQL injection, log injection, command injection, weak randomness, and IP reputation.
- Collaborated closely with multiple application teams to facilitate the installation, configuration, and support of the HDIV RASP solution, ensuring seamless integration and effective security measures across various platforms.
- Monitored and analyzed attack patterns, providing swift incident response and proactive defense measures, and collected and validated data to ensure the effectiveness of protection and detection rules.
- Shared pertinent log data with vendors to expedite issue resolution and continuous improvement, ensuring up-to-date security practices and effective defense mechanisms.
- Worked with the IBM server team to apply patches, update HDIV to newer releases, and adjust JVM arguments for performance optimization, addressing complex technical challenges such as removing the HDIV toolbar from applications and resolving SNI issues on IBM servers running Java 1.6.
- Spearheaded the creation of a JMeter service within the Enterprise Jenkins platform, automating performance tests and metric generation, and developed comprehensive JMeter test plans for Java web applications to facilitate performance comparison before and after configuring the RASP solution.
- Validated performance benchmarks established by vendors, ensuring alignment with real-world scenarios, and documented benchmarking results encompassing both RASP-enabled and standard scenarios.
- Utilized normal and malicious payload simulations to showcase performance variations, centralizing documentation within Confluence to ensure seamless knowledge sharing and effective communication of results.
- Leveraged Ubik Load Pack plugin and Smartmeter to simplify token handling and enhance Vaadin communication mechanisms during performance testing, contributing to efficient and comprehensive performance evaluation.
- Proactively addressed and resolved complex technical issues, ensuring robust security measures and optimal application performance, and facilitated continuous improvement through collaboration with vendors and internal teams

Education:**University of Bridgeport.***Master of Science, Computer science. GPA: 3.4***Bridgeport, CT**

Dec 2017

JNTUH College of Engineering Jagtial.*Bachelor of Technology, Electronics and Communication Engineering. GPA: 3***Jagtial, India**

May 2016