Arsad Tanzim Hossain
Site Reliability/DevOps Engineer
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Current Location**: Bengaluru, India.**

Summary:

Highly motivated and results-oriented Site Reliability Engineer with 10+ years of IT industry experience, including 6+ years of experience in DevOps and SRE roles. Proven track record of designing, building, and operating highly scalable and reliable cloud infrastructure solutions on public clouds like AWS, GCP and OCI. Skilled in using Terraform, Linux, Kubernetes, and other industry-standard tools for cloud infrastructure automation. Passionate about automation, cloud infrastructure automation, and continuous improvement.

TECHNICAL SKILL SETS

- Cloud Technologies: AWS (EC2, EKS, ECR, RDS, S3, IAM, Lambda, Athena, Glue, QuickSight etc.), OCI, GCP, Terraform, Kubernetes (EKS, GKE), Docker.
- Monitoring and Logging: Datadog, ELK Stack, Grafana.
- Automation: Terraform, Ansible, Bash, Python, Jenkins, GitHub Actions, ArgoCD, Helm, etc.
- Operating Systems: Linux (Ubuntu, CentOS, RHEL) and Windows Server.
- Networking: TCP, UDP, DNS, DHCP, IPSec
- Scripting: Bash, Python.
- Version Control: Git, SVN.
- DevOps: CI/CD, Infrastructure as Code (IaC).
- Security: SOC2 compliance, DevSecOps practices.
- Database: Postgres, MySql, Oracle, Elasticsearch.
- Admin: MS O365, MDM.
- Additional Skills: Git, SVN, Apache, Nginx, Service Mesh (Istio), Jira, REST API, SDLC.
- Soft Skills: Strong communication, collaboration, problem-solving, leadership.

ACADEMIC CREDENTIALS

- B.Tech in Computer Science & Engineering from Biju Patnaik University of Technology.

PROFESSIONAL EXPERIENCE

Senior Site Reliability Engineer, Samsung | July 2024 – Present:

- Built and operated mission-critical infrastructure on AWS Cloud for Samsung Ads.
- Managing Kubernetes cluster and deployments using Rancher, Helm, GithubAtions and Terraform on AWS and EKS.
- Implementing deployment strategies i.e. Blue Green deployments, Canary deployments, Weighted traffic routing depending on service and product related requirements.
- Coordinate with other teams across the platform to make sure any infra changes during releases work seamlessly by enabling an HA infrastructure.
- Cost optimizing by monitoring unwanted resources and tracking resource utilization on by services.
- Work with DevOps tools like GitHubActions, Helm, Deployment manifests, Terraform, Shell and Python scripting to automate tasks and deployments.
- Implementing monitoring and observability solutions using Grafana, Prometheus, and the ELK Stack to ensure system reliability, performance, and effective troubleshooting.
- Managed and optimized AWS infrastructure with security best practices, cost-efficiency and scalability.
- Providing on call support, incident management and documenting postmortem and preventing actions for P1 incidents.

Lead-DevOps, Equabli (Fintech Startup) | September 2023 – July 2024:

- Built and maintained Disaster Recovery (DR) infrastructure for mission-critical applications on AWS and GCP ensuring recovery point objectives (RPO) and recovery time objectives (RTO) were met or exceeded.
- Managed and optimized AWS/GCP infrastructure with cost-efficiency and scalability.
- Implemented best security practices for the cloud services, Kubernetes workloads by using the concepts of IAM, Roles, Role mappings, RBACs, Security Groups, TLS/Firewalls, Process Whitelisting, Audit Logging etc.
- Worked in managing and deploying multiple client resources using AWS services i.e. VPC and Networking, Security Groups, IGW, NAT, EIP, SNS, SQS, SES, EMR, Lambda function, S3, DynamoDB, RDS, CloudWatch, API gateway, Auto Scaling, ECS, ECR, ALB, EC2, CloudFront, IAM, Secrets Manager.
- Use software development best practices to automate solutions and eliminate toil.
- Automated deployments of services into the Kubernetes infrastructure hosted in EKS/GKE using Terraform, Helm, Deployment manifests, and ArgoCD.
- Build custom application's images using Dockerfile and maintain images on the docker registry.
- Contributed to achieving SOC2 compliance and implementing DevSecOps practices on AWS and GCP.
- Monitored and analyzed system performance using Datadog and ELK.
- Contributed to continuous improvement processes and implemented automation tools.
- Automate manual activity like disk cleanup, and server health monitoring etc.
- Provide first-line investigation and troubleshooting of all Incidents related to applications running on Linux servers.
- Build AWS infrastructure for Web/DB servers, using EC2 instances shared across multiple private/public subnets with appropriate security groups/routing tables ensuring a highly secure environment.
- Wrote terraform scripts for infrastructure provisioning of AWS services like VPC, EC2, ECS, EKS, ALB, SNS/SQS, API Gateway, etc.
- Wrote terraform scripts for infrastructure provisioning of GCP services like IAM, VPC Networking, Compute Engine, Kubernetes Engine (GKE), Cloud Functions, and Cloud Storage, etc.
- Managed and administrate organization resources using tools like MS O365, MDM
- Provide On-Call Production Support.

Site Reliability Engineer, Oracle | March 2021 - September 2023:

- Designed, built, and operated mission-critical infrastructure on Oracle Cloud Infrastructure (OCI).
- Utilized Terraform and Ansible for infrastructure automation and provisioning.
- Worked on administering Linux servers including file system management, disk space management, LVM, IPtables, package management (YUM/RPM), user management, Apache web services, DNS, DHCP, SSH, FTP, Crontab, etc.
- Implemented HA containerized services accessible internally/externally by administering liveness/readiness probes, HPA/CA, pod failure policies, multi master setup, regional cluster, load balancer and much more.
- Monitored and analyzed system performance using ELK Stack and Grafana.
- Document and Escalate User Stories, Bugs, and Defects.
- Independent & Collaborative Troubleshooting of Application, Service, and System Issues.
- Implemented automation scripts using Bash and Python for repetitive tasks and performance optimization.
- Keeping all hosts updated to maintain all security standards.
- Establish and Maintain SLI, SLO, and SLA targets for applications and services.
- Debugging and bug fixing of Shell scripts, Perl and python scripts.
- Managing Kubernetes cluster and deployments using helm charts.
- Debugging and bug fixing of Shell scripts, perl and python scripts.
- Provide On-Call Production Support.
- Strict adherence to ITIL guidelines and SDLC best practices.

DevOps Engineer, Capgemini | May 2017 - March 2021:

- Developed and implemented CI/CD pipelines for efficient deployments using Jenkins.
- Creae and managed AWS services like VPC, EC2, ECS, RDS, ALB, SNS/SQS, API Gateway, etc.
- Managed AWS access security using IAM roles, policies/permissions and security groups as per the requirements.
- Configured and managed infrastructure using Puppet and Ansible.
- Collaborated with development teams to ensure smooth product releases.
- Independent & Collaborative Troubleshooting of Application, Service, and System Issues.
- Automated infrastructure provisioning and configuration management.
- Managed multiple DB instances both in public cloud (AWS RDS) and On Prem environments.
- Linux server administration.
- Configured/setup LAMP applications.
- Monitored system performance and identified areas for improvement.
- Provide On-Call Production Support.

Senior Application Engineer, LexisNexis | October 2015 - May 2017:

- Provided technical support for the applications developed on Linux, MySQL, Perl and Python.
- Build and maintain REST APIs using Python and Flask.
- Developed and executed automation scripts for performance optimization.
- Collaborated with cross-functional teams for incident resolution and problem-solving.
- Linux server administration.
- Incident and change management.
- Implemented new technologies and tools to improve efficiency and performance.

Software Engineer, Zensar Technologies | September 2013 - October 2015:

- Developed and maintained web applications using Perl and CGI Framework.
- Used several RDMS databases like Oracle, MySql.
- Change and Incident management.
- Bug fixing, and deployment on production maintain SLA time frame.
- Wrote Shell scripting to automate prod deployment.
- Participated in the entire software development lifecycle from design to deployment. *Contributed to code reviews and team collaboration.

Personal details:
Date of Birth **:** 5th-Aug-1989
Nationality **:** Indian
PAN **:** AIDPH8402Q
Language Known : English, Hindi, Odiya, Urdu
Gender **:** Male
Marital Status **:** Married

I hereby declare that the information given above is true to the best of my knowledge.

Place: Bangalore
Date:

                                    Mohammed Arsad Hossain