

Eliya Sankar K

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Summary

DevOps Engineer with a strong focus on results, possessing 4.5+ years of practical IT experience and relative experience 4 + years. Expertise in building, deploying, and managing scalable cloud infrastructure. Expertise in implementing continuous integration and delivery pipelines, automating infrastructure provisioning, and streamlining application deployments. Skilled in optimizing system performance, ensuring high availability, and maintaining robust security and compliance standards. Strong ability to collaborate with cross-functional teams to deliver reliable and efficient solutions.

Profile Summary

- Demonstrated Expertise in creating infrastructure for web-based applications using various cloud components like **EC2, S3, RDS, VPC, ELB, Elastic Cache, CloudWatch, CloudFront, CloudFormation, ECS, EKS, ECR, Route 53, SQS, SNS, Fargate, and Auto Scaling Groups**.
- Proficient in containerizing applications and managing multi-container environments using **Docker, Kubernetes, ECS, and EKS**.
- Experienced in implementing CI/CD pipelines using DevOps tools and platforms, ensuring seamless build, test, and deployment processes.
- Skilled in creating and managing monitoring dashboards with CloudWatch and **Datadog** to enhance application performance and system visibility.
- Strong experience in managing day-to-day cloud operations and optimizing resources for high availability and cost efficiency.
- Expertise in infrastructure automation using **CloudFormation/Terraform**, ensuring consistency and scalability in deployments.
- Hands-on experience in managing **Route 53 DNS** services, configuring routing policies, and implementing high availability using CloudFront.
- Developed health check and endpoint monitoring solutions using Datadog and CloudWatch, with dashboards for actionable insights.
- Skilled in troubleshooting, configuring, and deploying microservices-based applications in cloud environments.
- Proficient in shell scripting for task automation, log processing, and system startup configurations.
- Worked on proxy servers like **HAProxy** and Nginx for context path routing, CORS handling, and SSL termination
- Collaborated with performance teams to determine infrastructure sizing and optimize Java parameters to meet key performance indicators.
- Supported PCI compliance requirements for payment applications, ensuring adherence to security standards.
- Implemented multi-factor authentication for **IAM** users and instances and managed cross-account IAM roles for enhanced security.
- Set up Nexus repositories for **Maven, NPM, and Docker** to streamline build processes and reduce deployment time.
- Leveraged **AWS EKS**, pipelines, Docker, and **Kubernetes** for managing microservices in AWS environments.

Experience

TerraPay | Senior Cloud Engineer | Feb 2024- Current

Project Name - Payment Gateway and FRM

Description - The Payment Gateway will be used in the merchant to initiate transactions by allowing support to EMV and magnetic stripe cards as well as manual entry through POS devices, web portals, and API servers.

- Demonstrated proficiency in managing Linux-based systems, including creation of EC2 instances, installation, configuration, maintenance, and troubleshooting.
- Set up and managed AWS environments, including VPCs, Subnets, Security Groups, and Application Load Balancers, **ECS Fargate** with auto scaling based on CPU utilization.
- Configured the **WAF**, **cloudwatch/CloudTrail** alerts for security and monitoring
- Knowledge of user account management, file permissions, and access control lists (**ACLs**) to ensure system security.
- Built CI/CD pipelines using Jenkins, automating artifact building, Docker image creation, and deployment to **ECS Fargate**.
- Created and managed Dockerfiles for microservices, along with Ansible and shell scripts for creating Docker images and pushing them to ECR for deployment.
- Configured CloudWatch alerts for AWS components and set up proactive monitoring dashboards with CloudWatch and CloudTrail.
- Troubleshoot and optimized Jenkins automation jobs and verified TPS using the AppDynamics tool.
- Implemented MFA authentication for EC2 instances and maintained security with TrendMicro.
- Audited VPC flow logs and Load Balancer logs to identify improper patterns and secure the infrastructure.
- Supported **PCI DSS** certification by gathering evidence and ensuring compliance on systems.
- Maintained disaster recovery environments to ensure database consistency and the reliability of scripts.
- Provided cross-functional team support and assisted with customer deployments, new setups, and discussions.
- Configured logging and monitoring for microservices using tools such as CloudWatch.

Project Name – Issuance

Description - Digital Issuance Card and Processing systems. Card Management and Pre-Paid Account Management system is a Web Application used by Financials Service Providers in US.

- Designed and implemented multi-environmental infrastructure using CloudFormation Templates for UAT, Preprod, and other production environments.
- Automated deployment processes utilizing Jenkins, Shell scripts, and Ansible Playbooks to deploy applications running on Tomcat in **EC2** servers.
- Managed AWS environments, including **VPCs**, Subnets, Security Groups, Application Load Balancers, and EC2 instances with auto-scaling based on CPU utilization.
- Configured WAF, CloudWatch, and CloudTrail alerts for security and monitoring.
- Built and managed CI/CD pipelines using **Jenkins** to automate artifact building, deploy applications to Tomcat running in EC2, and manage existing EC2 instances.
- Set up alerts on **CloudWatch** for AWS components and created proactive monitoring dashboards using CloudWatch and **CloudTrail**.
- Implemented MFA authentication on all EC2 instances and maintained security with TrendMicro.
- Audited VPC flow logs and Load Balancer logs to enhance security and ensure infrastructure protection.
- Supported PCI DSS certification by providing evidence and ensuring compliance of systems.
- Sustained the disaster recovery environment to maintain database consistency and ensure reliable scripts.

- Provided support for cross-functional teams and customer deployments through new setups and discussions.
- Set up logging and monitoring applications using CloudWatch.
- Resolved incidents quickly and effectively to troubleshoot any issues.

Tech Mahindra | Senior Technical Engineer | Nov 2021- May 2023

- Create and maintain full automated **CI/CD** pipelines for Code deployment
- Manage and configure AWS services as per the business needs (**ELB, Route53, S3, CloudWatch, IAM, VPC**) Experienced in creating complex IAM policies, Roles and user management for access within AWS
- Actively manage, improve, and monitor cloud infrastructure on AWS, EC2 including backups, patches and scaling
- Used **Ansible** for Configuration Management and having good knowledge of writing Playbooks
- Automated build and deployment using Jenkins to reduce human error and speed up production processes
- Managed **GitHub** repositories and permissions, including branching and tagging
- Containerizing applications with **Docker**
- Responsible for managing the Docker private registry and having good knowledge of maintaining containers using **Docker swarm**
- Setup/Managing **VPC**, Subnets make connection between different zones blocking suspicious ip /subnet via **ACL**.

GGS Information Services | Technical Information Engineer | Jul 2019- May 2021

- Linux/Windows/Ubuntu servers on Amazon EC2 & monitor through **SNS & Amazon Cloud Watch**
- Creating/Managing **AMI/Snapshots/Volumes**, Upgrade/downgrade AWS resources (CPU, Memory, **EBS**)
- Setup/Manage Databases on **Amazon RDS**
- Used Ansible to do configuration and to automate deployments
- Worked on creating Kubernetes cluster from end to end
- Used AWS CDK to provide high-level constructs for common AWS services, such as Amazon S3, AWS Lambda, Amazon EC2, etc
- Manage and configure AWS services as per the business needs (**ELB, Route53, S3, Cloud Watch, IAM, VPC**) in Global infrastructure
- Handling L1 and L2 level issues, involved in the client calls, done several deployments, resolving the tickets to ensure system availability as per multiple Service Level Agreements (SLA)
- Worked on Pod Creation and managing Containers
- Administrated and Implemented CI tools Jenkins for automated builds and also integrating Unit tests and Code Quality Analysis Tools like SonarQube
- Hands on working experience on Web Server (Apache), Application Servers (**Tomcat, JBOSS**)

Education

B. TECH | MECHANICAL ENGINEERING | 7.9 CGPA | SEP 2015 - MAY 2019
DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE
CHENNAI

HSC | MECHANICAL ENGINEERING | 7.9 CGPA | SEP 2013 - MAY 2015
PADMA SARANGAPANI MATRICULATION AND HIGHER SECONDARY SCHOOL
CHENNAI

Skills & Abilities

- Operating systems - Linux, Windows
- Version Controller Tools Git
- Scripting-Python
- Build- Maven
- Defect Tracking- Jira
- Cloud Platforms- AWS
- Code Quality- SonarQube
- Lambda, Route 53,
- Configuration Management - Ansible
- Provisioning Tools - Terraform, Cloud Formation
- Continuous Integration - Jenkins
- Application Server - Tomcat
- Container Technology - Docker, Kubernetes
- Monitoring- Splunk, Prometheus, Cloud Watch, SNS
- Repository Management - Nexus

Certifications

AWS Fundamentals Specialization

Amazon Web Services | Issued Jun 2024 | Credential ID R34BMGDBT83T

Migrating to the AWS Cloud

Amazon Web Services | Issued Jun 2024 | Credential ID 92WGNTVPFDY6

Architecting Solutions on AWS

Amazon Web Services | Issued May 2024 | Credential ID Y9TGGHPJ297L

Languages

- English
- Tamil

Disclaimer

I hereby declare that all the particular stated in this resume are true to the best of my knowledge and belief.