Email: flora@alphasoftwaretech.com

Results-driven Cloud/DevOps Engineer with over 9 years of comprehensive experience in scaling and securing critical infrastructures, optimizing deployment pipelines, and integrating cross-platform cloud solutions AWS, Azure, and Google Cloud Platform, ensuring seamless and efficient multi-cloud operations. Well-versed in the latest industry tools and best practices, striving to achieve operational excellence across diverse technology environments.

PROFESSIONAL SUMMARY

* Oversaw the integration of a hybrid cloud environment combining AWS, Azure, and Google Cloud, reducing operational costs by 20%.
* Deployed various AWS services like EC2, S3, RDS, Elastic Beanstalk, ELB, Route53, AWS Aurora, Dynamo DB, VPC, Cloud Watch, NAT/ Transit Gateways, Code Commit, Code Deploy, Code Pipeline, IAM, Lambda, EKS, ECR, EMR, ECS, and Cloud Formation.
* Worked on Azure Services like Virtual Machines Gateway, SQL Database, App services, Azure AD, DNS, Azure DevOps, ARM & Azure Boards.
* Expertise in using version control tools such as GIT, Git Hub, Bit Bucket for managing source code through branching, tagging, and merging across different environments.
* Implemented automated deployments with CDK to multiple environments Dev, Test and Prod
* Expertise in configuring self-hosted Jenkins master and slave agents and creating pipeline jobs by configuring webhooks to automate the pipeline based on commit triggers.
* Worked on Build tools like Maven for Java-based projects by creating deployable artifacts (jar, war) as per pom.xml and used Jfrog repository to store artifacts,
* Experience writing Terraform modules as IaC to launch AWS, and Azure Infrastructure.
* Skilled in Writing and developing Ansible Playbooks, Inventory files to automate day-to-day configuration changes.
* Experienced in deploying microservices applications using containerization techniques like Docker on Elastic Kubernetes service (EKS), and Azure Kubernetes (AKS).
* Experience with hardening Kubernetes clusters for the Security of Applications.
* Configured and deployed manifest files in Kubernetes using Helm charts.
* Implemented monitoring on Infrastructure using Prometheus App Dynamics Splunk and Datadog.
* Participated in the migration of physical Linux/windows servers to the cloud environment.
* Applied fault-tolerant methods for Database creation as required using AWS RDS, Aurora and Azure SQL, and MySQL databases.
* Automation of recurring tasks using lambda functions (boto3), Shell, and python scripts.
* Provided mentorship and training to DevOps engineers and Conducted security awareness training sessions on best practices for Kubernetes and container security.
* Worked in Agile Methodology projects (SDLC) in my IT experience.

TECHNICAL SKILLS

|  |  |
| --- | --- |
| Cloud Environment | AWS, Azure,GCP |
| CI/CD Tool | Jenkins, Azure pipelines, Jfrog ,Argo CD |
| Build Tool | Maven, Apache Ant |
| Artifactory | Jfrog, Azure Artifacts (ADO) |
| Provisioning Tool | Terraform, Ansible, Salt Stack |
| Containerization | Docker, ECS, EKS, Kubernetes, AKS |
| Scripting | Groovy, Shell Scripting & Python |
| Monitoring Tools | Datadog, Splunk, App Dynamic, Prometheus & Grafana, |

WORK EXPERIENCE

**News Bank (Mission Cloud)-Remote August 2023-Present**

**Role: DevOps Lead**

* Led the design and implementation of a scalable CI/CD pipeline using Jenkins, integrating Groovy scripting for pipeline optimization.
* Managed and scaled containerized applications using Docker and Kubernetes, ensuring 99.9% uptime for critical applications.
* Deployed application into EKS AWS managed K8s services.
* Worked on package manager Helm to configure and deploy reusable applications/services in Kubernetes using Helm charts.
* Collaborated with the development team to introduce containerization using ECS for smoother and faster deployments.
* Assisted in migrating workloads to Amazon ECS, optimizing costs and improving application scalability.
* Managed Kubernetes clusters to ensure high availability and zero-downtime deployments.
* Automated infrastructure provisioning and configuration using Python scripts integrated with Ansible.
* Worked with development teams to integrate Python automation scripts into the deployment workflow.
* Migrated legacy databases to MongoDB, ensuring smoother, more scalable data operations.
* Implemented monitoring solutions to provide real-time metrics on application health and performance.
* Implemented HA Proxy as a load balancer to ensure zero downtime and optimize traffic distribution.
* Utilized Salt stack for configuration management, drastically reducing manual errors and deployment time.
* Collaborated with cross-functional teams to design and implement a microservices architecture.

*Environment: AWS, GIT, Maven, Jenkins CI/CD, Docker, containers, Kubernetes, Jira, Confluence, Apache Tomcat, Python /Shell Scripts, Windows, Ubuntu, JFrog, SonarQube, Ansible, Terraform.*

**Samsung -Mountain View, California January 2023- August 2023**

**Role: DevSecops Lead**

* As DevSecOps Lead and part of Architecture DevOps team partnered with other development teams to help improve and standardize DevSecOps practices, provide architectural solutions and support cross-product teams technical initiatives.
* Implemented Sustainable Prometheus and Grafana on AWS cloud
* Identified few critical VPC networking configuration issue and worked with numerous CIA’s (Architects)to resolve them
* Designed the process of leveraging and contributing Jenkins Shared libraries across all OC teams
* Implemented and managed the OPA-Gatekeeper across multiple Kubernetes clusters to enforce security and compliance policies.
* Developed custom constraint templates tailored to organizational security policies and best practices.
* Collaborated with development teams to identify and mitigate security risks within the CI/CD pipeline.
* Involved in modernizing the App Spec process of OC Apps using Jfrog Xray, Jenkins, Artifactory, SonarQube
* Designed and developed a highly configurable shared library to push custom GitHub Checks
* Working Relationship with AMS (Amazon Managed Services) architects in migrating Legacy application into AWS cloud.
* Collaborated with development teams to automate build, test and Deployment pipelines and managed version controlling and infrastructure configurations in Git repositories.
* Mentored and guided a team of 4 across to product teams to deliver a robust, reliable,

Secure products.

*Environment: AWS, GIT, Maven, Jenkins CI/CD, Docker, containers, Kubernetes, Jira, Confluence, Apache Tomcat, Python /Shell Scripts, Windows, Ubuntu, JFrog, SonarQube, Ansible, Terraform.*

**Pansophic Learning-Remote April 2022-January 2023**

**Role: Sr. Cloud/DevOps Engineer**

* Lead the design and implementation of Azure infrastructure and services for enterprise-level projects with an emphasis on scalability, security, and high availability.
* Automated infrastructure deployments using Azure Resource Manager (ARM) templates and terraform.
* Automated multiple key processes using Azure CLI, PowerShell, and ARM templates.
* Implemented monitoring solutions using Azure Monitor, Log Analytics, and Application Insights.
* Collaborated with the development team to containerize applications using Docker and Azure Container Instances.
* Assisted in the initial adoption of cloud technologies, primarily Azure services.
* Automated daily backups, disaster recovery, and failover strategies for Azure-based applications.
* Managed and maintained SQL databases on Azure, ensuring high availability and optimal performance.
* Managed and optimized Azure Kubernetes Service clusters for microservices deployment.
* Played a key role in the migration of on-premises applications to the Azure cloud, ensuring a smooth transition with zero downtime.

*Environment: Linux, Maven, Azure Repo, Docker, Kubernetes, SonarQube, Ansible, Azure pipelines, Azure Boards, Terraform, Shell Scripts, Python, Unix/ Linux environment, Azure Dashboards, Monitoring.*

**3M-St Paul, MN July2018-March 2022**

**Role: Cloud DevOps Engineer**

* Working on various AWS services like EC2, Auto Scaling, S3, Elastic Load Balancing Route53, AWS Aurora, RDS, VPC, Cloud Watch, IAM, EKS, EMR and Lambda.
* Assist with deployment activities into Dev/Test/pre-prod/production environments.
* Using version control tool GitHub repository for SCM the Continuous Integration (CI) environment using Jenkins pipeline jobs to trigger the job using webhooks.
* Working on Jenkins Jobs configuration and maintenance of agents to manage pipelines for Continuous Integration (CI) and Continuous Delivery and Deployment (CD).
* Integrated SonarQube during the CI pipeline job for scanning the source code to perform Static application security testing (SAST) and Deserialization of vulnerabilities for java-based applications.
* Worked on Terraform modules to create and modify the infrastructure on the AWS cloud.
* Deployed the application version on the Kubernetes (K8s) environment by following the Blue/Green and Rolling deployment strategies based on environments.
* Tracking changes/Tickets in a production environment using the Jira tracking tool.
* Setting up and configuring monitoring and logging solutions to track the performance and health of applications and troubleshoot issues using Prometheus & Grafana.
* Used App Dynamics to monitor the performance of applications and Datadog for instances.
* Have experience working on software release projects using the Agile approach.

*Environment: AWS, GIT, Maven, Jenkins CI/CD, Docker, containers, Kubernetes, Jira, Confluence, Apache Tomcat, Python /Shell Scripts, Windows, Ubuntu, JFrog, SonarQube, Ansible, Terraform.*

**T-Mobile- Remote JAN 2018 – JUN 2018**

**Role: Middleware Engineer**

* Installed, configured, and maintained Apache Web Server on Ubuntu instances.
* Worked on migration from physical to virtual (P2V) environment for Red Hat Linux.
* Installed and configured Apache Webserver in a LAMP stack.
* Implemented Puppet for Package and configuration management.
* Automated routine tasks using scripting languages like Bash and Python
* Monitoring and service issue resolution of LAMP stack web servers, both shared and VPS.
* Used Puppet Master to keep in sync configuration on hosts running agents.
* Change root password on all servers from centralized Puppet master server.
* Managed user/group and Sudo access on the Linux operating system.
* Setup static IP address for server when there is a new server build.

*Environment: Red Hat Linux, LAMP, Puppet, Python, AWS, VPN, MySQL, Apache WebSphere, Puppet Master, UNIX, LINUX*

**DELL Technologies | India JUNE 2013-DEC 2016**

**Role:** **Associate Software Engineer**

* Involved in Requirement gathering, writing design specification documents and identified the appropriate design pattern to develop the application.
* Being a Fortune Global 500 company, worked closely with international clients to diagnose business processes or organizational problems, and leveraging technology to determine how our clients can seize new opportunities.
* Analyzed current processes and technologies, contributing through to the delivery/ integration of new solutions
* Delivered solutions via an AGILE delivery methodology and leveraging DevOps to bring the solutions to life quickly for our international clients
* Used Spring-Hibernate integration in the back end to fetch data from Oracle and MYSQL databases.
* Installed Web Logic Server for handling HTTP Request/Response.

*Environment****:*** *CSS, HTML, JavaScript, AJAX, JUNIT, Struts, Spring, Hibernate, Oracle, Eclipse IDE*

EDUCATION

* Master of Science in Analytics (MSA) at Dakota State University, Madison, South Dakota, USA.
* Bachelors in computer science engineering at Andhra University, Vishakhapatnam, India.

CERTIFICATION

* AWS Certified DevOps Engineer - Professional.
* Certified Kubernetes Administrator