ALAIN FORYIM

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**OVERVIEW**

Highly motivated and dedicated IT professional seeking an environment that encourages continuous learning and innovation. With over 6 years of experience as a DevOps engineer, I excel in supporting, automating, and optimizing application deployments in AWS. My expertise spans the entire Software Development Life Cycle (SDLC), and I possess strong problem-solving, decision-making, and communication skills. I am detail-oriented and always eager to explore new tools and technologies to enhance performance and simplify deployments.

**PROFESSIONAL SUMMARY**

* Having overall 6+ years of IT experience which includes **DevOps, AWS, and Linux**.
* Extensively worked on **Jenkins** for continuous integration and for End-to-End automation for all build and deployments.
* Extensive experience using **Maven** as build tools for the building of deployable artifacts (jar, war & ear) from source code.
* Having experience on version control tool **Git/GitHub/GitLab.**
* Automated nightly build, test, and reporting mechanisms.
* Have experience configuring quality gate and benchmark thresholds for static analysis using **SonarQube**.
* Having good experience on **Shell Scripting**.
* Have experience on **Docker** Containerization.
* Experience in the use of micro-service container orchestration looks -**Kubernetes**
* Experience using powerful resource provisioning tools -**Terraform** and **CloudFormation**
* Skilled at leveraging **Terraform** in provisioning **EKS** Kubernetes clusters.
* I have Equally provisioned ready to use Kubernetes clusters using **KOPS**
* I've employed the **ELK stack (Elasticsearch, Logstash, Kibana)** extensively for log management and analysis. Kibana's dashboarding capabilities allowed me to create custom dashboards, visualizations, and alerts tailored to specific monitoring needs.
* I have set up **Prometheus** to collect metrics from various endpoints, applications, and services.
* I've configured Prometheus alerting rules to trigger alerts based on predefined conditions, ensuring timely notifications of critical events.
* I've integrated **Grafana with Prometheus** to create visually appealing dashboards displaying various metrics and performance indicators.
* Experience in working on AWS and its services like **AWS IAM, VPC, EC2, ECS, EFS, RDS, ElastiCache, Route 53, Elastic Beanstalk, S3, Lambda, ELB, X-Ray, Auto Scaling, Cloud Front, Cloud Watch, Cloud Trail, SQS, and SNS,**
* Creating/Managing AMIs, Snapshots and Volumes Upgrade Downgrade AWS resources (CPU, Memory, EBS).
* Installing and configuring applications on AWS EC2 Instances.
* Configuring backups to S3 bucket.
* configure and use **dynamoDB** to lock terraform state-files for security in my environment
* Experience in supporting applications in Linux environments.
* Have used AWS X-Ray extensively to monitor and debug distributed applications.
* Have utilized X-Ray andits tracing to identify bottlenecks and improve performance application performance.

**TECHNICAL SKILLS OVERVIEW**

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| --- | --- |
| Operating System | Linux (Redhat, Ubuntu, CentOS), Windows |
| Version Control Tools | Git/github/GitLab |
| Build Tools | Maven |
| Static Code Analysis Tool | SonarQube |
| Artifactory Repository | Nexus, Jfrog |
| Application Server | Tomcat, Jboss/Wildfly |
| Continuous Integration & Deployment | Jenkins |
| Configuration Management Tool | Ansible |
| Container tool | Docker |
| Container orchestration tool | Kubernetes |
| Resource Provisioning tools | Terraform |
| Containerization Platform | Docker |
| Cloud Services | AWS (EC2, S3, EBS, ELB, IAM, AMI) |
| Programming & Scripting | Shell , Java, Groovy, Java script |
| Bug/Defect Tracking Tool | JIRA |
| Cluster management tools | Prometheus and Grafana, New Relic, Datadog |
| Log Management | ELK/EFK |
| Load balancers | Nginx, HAProxy |

**PROFESSIONAL EXPERIENCE**

**DOMINION SYSTEMS INC.**

**DevOps/Cloud Engineer** June 2017 - Present

**Responsibilities:**

* Supporting development teams by building, maintaining, and scaling infrastructure to support applications that are used by millions of users.
* Defined branching strategy, permissions, and access management for 10+ engineering teams.
* Managing existing AWS cloud environments, automation, monitoring metrics, disaster recover/backups, and capacity planning.
* Shared best practices and guiding 10+ engineers while implementing infrastructure as a code using **Terraform**.
* Mentoring 8+ junior software engineers in gaining experience and assuming DevOps responsibilities.
* Monitoring the performance of systems in AWS environment, including overall system health, reliability, performance, and cost.
* Container-based deployments using **Docker**, working with **Docker images**, **DockerHub**, and **Docker registries**, and configuring EKS clusters using Terraform.
* Installation and setting up **Kubernetes cluster** from scratch.
* Automating the provisioning of environments with **Ansible** and deploying environments using **Kubernetes containers**.
* Writing inventory and manifest files, **Ansible playbooks**, and K8s manifest files.
* Utilizing **Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test and deploy.
* Designing infrastructure for high availability and business continuity using self-healing-based auto scaling architectures.
* Managed **Kubernetes charts** using **helm**, created reproducible builds of Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Monitoring of applications using **Prometheus and Grafana and NewRelics**
* Created **Ansible playbooks** for installation and configuration of servers, user management, with different levels of access, file management, deployment, and full automation.
* Managing **Kubernetes charts** using **helm**.
* Managing provisioning of **AWS infrastructures** using **Terraform**.
* Leading incident response and providing hands-on troubleshooting during service interruptions, limiting max downtime to under 2 hours.
* Architected and implemented **continuous integration** and **deployment pipelines** using **Jenkins**.
* Designed infrastructure for high availability and business continuity using self-healing-based auto scaling architectures.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using **GIT** source control.
* Using **Jira** to track vulnerabilities, requests, and incidents, and **confluence** for documentation.
* Setting quality gate policies on **SonarQube** for code coverages, to track bugs, vulnerabilities, and failed Jenkins pipeline when the threshold was not met.
* Configuring **Nginx** for proxying RESTful API calls to micro-services in Docker containers.
* Utilizing **AWS CloudWatch** to monito the performance environment instances for operational and performance metrics.
* Experience in AWS and its services creating features like **IAM, VPC, EC2, ECS, EFS, RDS, ElastiCache, Route 53, Elastic Beanstalk, S3, Lambda, ELB, Auto Scaling, Cloud Front, Cloud Watch, Cloud Trail, API Gateways, SQS, and SNS.**
* Applying **cloud trail** to all regions and encrypting log files with **SSE-KMS**.
* Communicating with the teams by conducting daily meetings to know the status and reviews the deployment guide.

**SIEMENS**

**Cloud/Engineer** March 2015 – April 2017

**Responsibilities:**

* Championed the setup of CI/CD pipelines with Jenkins and GitLab, streamlining development processes.
* Expertly managed AWS EC2 instances, encompassing provisioning, patch management, and performance optimization.
* Designed and implemented secure and scalable AWS S3 buckets for data storage, enhancing
* Oversaw existing AWS cloud environments, focusing on automation, monitoring metrics, disaster recovery/backups, and capacity planning.
* Implemented secure and scalable AWS S3 buckets, optimizing data storage and management efficiency.
* Collaborated with development teams to containerize and orchestrate applications using Docker and Kubernetes.
* Conducted routine security assessments, ensuring AWS environments' compliance and fortifying security protocols.
* Provided responsive on-call support, minimizing service interruptions, and ensuring critical service availability.
* Collaborated cross-functionally to assess project requirements and deliver cost-effective cloud solutions.
* Managed and optimized AWS services (EC2, RDS, S3, IAM, VPC, CloudWatch), enhancing resource utilization.
* Designed infrastructures for high availability and business continuity, implementing self-healing-based auto scaling architectures.
* Implemented best practices and security assessments to minimize vulnerabilities and maintain compliance.

**CERTIFICATION**

* AWS Solution Architect

**EDUCATION**

* Bachelor of Engineering – Computer Engineering