

## 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 configuring artifactory repository - **Nexus**.
- Expert in deploying the code through web application servers like **Tomcat, JBoss / WildFly**.
- Have experience on Configuration Management tool - **Ansible**.
- 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**.
- Skilled at configuring monitoring and management tools - **Prometheus** and **Grafana, New Relic**
- Great experience in log management using **EFK/ELK**.
- Experience in working on AWS and its services like **AWS IAM, VPC, EC2, ECS, EFS, RDS, ElastiCache, Route 53, Elastic Beanstalk, S3, Lambda, ELB, 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.

## TECHNICAL SKILLS OVERVIEW

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** July 2019 - 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 monitor 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.

## **DOMINION SYSTEMS INC.**

**Junior DevOps Engineer**

June 2017 – July 2020

### **Responsibilities:**

- Installed, configured, and administered Jenkins as **Continuous Integration** Server on **Linux machines**.
- Build and configured **Jenkins** for **continuous integration** and **continuous delivery**.

- Implemented Zero-touch deployment of mission critical applications and multiple micro services to production in Jenkins.
- Implemented multiple CI/CD pipelines as part of DevOps role for our cloud-based software using Jenkins, and AWS/Docker.
- Experience in CI/CD with Jenkins implemented automation of new projects builds framework using Jenkins & maven as build framework tools.
- Automate the release and upgrade process for applications in **Dev, UAT and Production** environments.
- Deployed java applications to application servers.
- Produced comprehensive architecture strategy for environment mapping in AWS which involves JAVA web applications.
- Maintained repository of Java codes performing all the Configuration management activities of the project with geographically distributed team.
- Worked as Release Engineer in field of release automation for java technologies to achieve continuous integration and continuous delivery.
- Automated configuration management, application deployments and cluster cloning by utilizing Bash.
- Developed scripts for build, deployment, maintenance, and related tasks using **Jenkins, Docker, Maven, and Bash.**
- Developed and Scheduled **bash shell scripts** for various activities (deployed environment verification, running database scripts, file manipulations).
- Created IAM Users and Groups and Maintain the users Access management and Permissions with emphasis on least privilege concept.
- Ensured 100% of all documentation was created and updated, including design, development, and deployment documentation.
- Implemented a serverless architecture using **Lambda** and deployed AWS Lambda code from Amazon **S3 buckets**. Created a Lambda deployment function and configures it to receive events from S3 bucket using cloud watch events.
- Wrote shell, Groovy and Declarative scripts in Jenkins to automate entire CI/CD pipeline from development to deployment for every environment.
- Experience in building the artifacts from Git generated by Maven and upload to **Nexus** and deploy to higher environment using **Jenkins files/Jenkins.**
- Performed static analysis for source code, binary/byte code to discover security vulnerabilities.
- Created rules in **Aws Config** and implemented remediation using Lambda function,

## VANGUARD

### AWS Solutions Architect /AWS Engineer

March 2015 – April 2017

#### Responsibilities:

- Spearheaded the successful migration of on-premises infrastructure to AWS cloud, delivering a remarkable 75% reduction in operational costs.
- 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 data management efficiency.
- Championed continuous integration and continuous deployment (CI/CD) pipelines with Jenkins and GitLab, fostering streamlined development processes.
- Collaborated closely with development teams to containerize applications via Docker and orchestrated them using Kubernetes.
- Conducted routine security assessments and audits to maintain AWS environments' compliance with industry standards, fortifying security protocols.
- Provided responsive on-call support and troubleshooting for AWS-related issues, ensuring uninterrupted critical service availability.
- Collaborated with cross-functional teams to assess project requirements, delivering cost-effective cloud solutions that yielded an impressive 95% reduction in overall infrastructure costs.
- Implemented best practices and executed regular security assessments to bolster the security posture of AWS environments, minimizing security vulnerabilities.
- Proficiently managed AWS services, including EC2, RDS, S3, IAM, VPC, and CloudWatch, optimizing resource utilization.
- Oversaw existing AWS cloud environments, focusing on automation, monitoring metrics, disaster recovery/backups, and capacity planning.

## **CERTIFICATION**

- AWS Solution Architect

## **EDUCATION**

- Bachelor of Engineering – Computer Engineering