

Viraj Soni - DevOps Engineer

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Professional Summary

Over 5 years of experience as a Software Developer and DevOps Engineer. In-depth knowledge of building, deploying and maintaining cloud environment with focus on different DevOps Tools, CI/CD and AWS Architecture and container technologies. Hands-on experience using configuration management tools Chef and Ansible. Experienced in containerization all applications - **Spring Boot, Java, Angular, and python** applications using Docker and deployed to Kubernetes clusters and ECS Fargate. Worked with AWS services as EC2, S3, Cloud Trail, Cloud Watch, IAM roles, Route 53, Cloud Formation, Elastic beanstalk, VPC, SNS, DynamoDB. Hands on experience with Build tools as ANT, Maven, Docker and Bamboo/Jenkins, also automation scripting as shell, Python, Bash, Ruby, Managed tagging, branching and maintenance versions of production using SCM tools like Subversion and GIT. Understanding of Agile Methodologies and process, and well versed with various cloud challenges.

Technical Skills

- **Platforms:** Linux (AWS, Red Hat, Ubuntu), Windows, Centos
- **Languages:** C, JAVA, Shell scripting, Bash Python, JavaScript
- **AWS Cloud:** AWS (EC2, Elastic Beanstalk, ELB, Route53, S3, Cloud Front, SNS, RDS, IAM, CloudFormation)
- **Networking:** HTTP/HTTPS, FTP, NFS, SMB, SNMP, SSH, DNS, TCP/IP, DHCP
- **Web Technologies:** HTML, XML, SOAP WSDL, XSD, XSL, XPATH
- **Container services:** Docker, Kubernetes, ECS, EKS
- **Continues Integration/Deployment tools:** Jenkins, Bamboo, Urban code deploy-urban code release, ICART ClearQuest, Terraform, GitLab
- **Configuration Management:** Ansible, Chef
- **Source Code Management:** GIT, SVN
- **Monitoring and logging tool:** Splunk, ELK stacks, CloudWatch
- **Web and Application Server:** Apache 2.x, Apache Tomcat 6.x, 7.x, Glassfish, JBoss, Ngnix Jetty
- **Database:** MySQL, Redis, DynamoDB

Work History

Fannie Mae– Reston, VA, USA
DevOps Engineer, 10/2016 to Present

- Refactor monolithic applications to a Microservices and Component based architectures for CI-CD deployments.
- Created Task definitions and services CloudFormation stacks for ECS Fargate container Deployments for multiple REST APIs and invoked the container from AWS lambda functions.
- Created Step function flow using more than 10 lambda functions for scanning the Fannie Mae AWS infrastructure.
- Used Extensive Cloud formation for provisioning AWS infrastructure using urban Code Deploy tools for SAST, DAST, SCA, Infra and compliance scan applications.
- Designed the Release Plans while coordinating with Stake Holders including Project Management Lead, Development Lead, and QA Team Lead.
- Configured and managed SCM tools SVN, Git, branching strategies and troubleshoot code merging issues with coordination with application developers.
- Created and deployed IaC Cloud formation stack for SNS Topics, AWS lambda, Cloudwatch Dashboard, DynamoDB, Step function, SSM parameter store, Secret manager entries for REST APIs using Urban code tool deployment tool and Jenkins file.

- Worked on migration of applications project from on premise to AWS Cloud platform by building a Continuous delivery pipeline using Jenkins file(CI) and Urban Code Deploy(CD tool)
- Installing, configuring, and administering Jenkins CI tool on Linux machines for automating deployments and providing complete automation solution.
- Assisted in Maintaining/Updating existing Development, Staging, and Production ECS clusters.
- Collaborated closely with the application teams to drive adoption of the container solution, setting up orchestration for application deployments. Guiding development teams on best practices to containerize applications.
- Ensured optimum performance, high availability and stability of solutions and the container orchestration platform (Docker/ECS fargate) is regularly maintained and released to non-production without any downtime.
- Assisted development team to migrate applications to Docker-ECS fargate -AWS platform.
- Created Jenkins CI_CD pipelines for continuous build & deployment and integrated Junit and SonarQube plugins in Jenkins for automated testing and for Code quality check.
- Used Jenkins pipelines to drive all microservices Docker builds out to the jfrog Artifactory repository and then deployed ECR repo and ECS cluster for container deployments.
- Used Ansible to manage Web applications, Environments configuration Files, Users, Mount and Packages.
- Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment on AWS environments through automated tools.
- Experienced in creating custom applications container images, tagging and pushing Docker images to jfrog artifactory repository and enabling twist lock stage.
- Authored Terraform modules for infrastructure management. Authored and published a module to the Terraform registry for enterprise customers to deploy our product inside their AWS environment.
- Hands-on experience of tracking tools such as JIRA.

Environment: Jenkins ,Urban code deploy-Release, Git, SVN, Elasticsearch, Logstash, Kibana, Nginx, shell script, Docker, Ansible, Python, JIRA, AWS (Faregate, EKS, S3, EC2, EC2 Systems Manager, IAM Roles, CloudWatch, CloudTrail, CloudFormation, Lambda, Elastic beanstalk, VPC),twist lock

IT Souls– Vadodara, India

JAVA Developer 06/2012 to 05/2014

- Collaborated with other developers on designing, developing, testing, and implementing new JSP pages, HTML pages, and Servlets.
- Maintained company website(www.itsouls.com) and using own knowledge and experience resolved any problematic issues.
- Provided web support and beneficial advice to clients.
- Using the latest technologies and software programmers (Java, JavaScript, HTML, DHTML, CSS), designed and developed various user-friendly websites and applications.
- Reviewed and tested existing code to discover and fix bugs.
- Developed databases and original eye-catching user interfaces; provided knowledge and expertise to clients on any web related issues.
- Participated in weekly team meetings with managers; provided drafts and reports on the progress of the projects.
- Developed JUnit tests and created **Cobertura** code coverage reports for JAVA applications.
- Created Jenkins pipeline and integrated **SonarQube**, **CAST**, **HP-Fortify**, **Sona Type**-CLM (Static code analysis) with **Jenkins** build job.
- performed technology upgrades of Spring 2.0.2 to 3.0.1 and Hibernate 2.1.6 to 3.2.5.
- Designed and developed a standalone Java application using the Java template engine Free Marker to automatically generate HTML pages.
- Developed different SOAP Web Services using WSDL.
- Interacted with external services to get the user information making web service SOAP calls.
- Used XML, WSDL, and SOAP Web Services for communicating data between different applications.
- Developing re-usable web services using SOAP, XML, WSDL, XML Schema
- Used XSL/XSLT for transforming and displaying data.

- Created Database Tables, Sequences and wrote hibernate mapping files and POJO class.
- Used Hibernate annotations to persist the data into Oracle Database.
- Used Log4j and commons-logging frameworks for logging the application flow.
- SOAP UI is used extensively to test the middleware components independently.
- Created build and deployment plans for QA, TRN and PRD environments using Bamboo.
- Leading DevOps and AppOps for QA, ACPT and PRD deployments.

Education

- **Bachelor's** in Computer Science, Gujarat Technological University, India
- **Master's** in Computer science, New York Institute of Technology, New York

Certifications

AWS Certified Developer – Associate Level:

Certificate Validation No: 94LXQEQQKBV1175S

AWS Certified SysOps Administrators – Associate Level:

Certificate Validation No: AWS-ASOA-3975

AWS Certified Architect – Associate Level:

Certificate Validation No: AWS-ASA-17012

Microsoft Certified-Microsoft Azure Developer Associate

Certificate Validation No: H560-2698

Achievements

Fannie Mae Hackathon winner (Single Family portfolio): Dockerize UI and REST API components of application and deployed to AWS infrastructure, Kubernetes -OpenShift platform.