***DevOps/Cloud/Build and Release Engineer***

Sneha Reddy

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**Professional Summary:**

* **Around 5 years** of professional IT Experience as a **DevOps/Cloud/Build and Release Engineer** with excellent experience in Software Integration, Configuration, Packaging, Building, Automating, managing and releasing code from one environment to other environments, and deploying to servers, support and maintenance under **Unix/Linux/VM's** Platforms.
* Expertise in improving build & and deployment tools in DevOps through automation using scripting languages such as **JavaScript, Shell, Bash, Perl, JSON, Ruby, Groovy**, and **Python,** etc.
* Expertise in AWS solutions using EC2, S3, Dynamo DB, EBS, Elastic/Application Load Balancer, Auto scaling groups, VPC, ECS, RDS, Security Groups, Route 53, CloudWatch, Cloud Formation, Elastic Bean Stack, etc.
* Experience in configuring and implementing various **AWS** components such as **Elastic IPs, EBS, Elastic Cache, Elastic Beanstalk, DynamoDB, Redshift,** and **Cloud Formation.**
* Well versed with many different concepts of **Chef** like Roles, Environments, Data Bags, Knife, **Chef Server** Admin/Organizations.
* Expertise in integrating **Terraform with Ansible, and** Packer to create and Version the **AWS Infrastructure,** designing, automating, implementing, and sustaining Amazon machine images (AMI) across the **AWS Cloud** environment.
* Experience in development and configuration experience with software provisioning tools like **Chef and Puppet**.
* Experience with Red Hat Linux, and configuration management using **Puppet** and **Chef.** Support as part of the DevOps team to help deployment using **Jenkins Hudson Bamboo** and **TeamCity.**
* Experience in Infrastructure on **AWS** using **IAM, API Gateway, CloudTrail, Cloud Watch, Amazon Simple Queue Service** **(Amazon SQS),** **AWS Kinesis, Lambda, NACL, Elastic Beanstalk, Redshift,** and **CloudFormation.**
* Experience in writing **Chef cookbooks** to automate our build/deployment process to improve the infrastructure scalability performance.
* Experience with **CI (Continuous Integration)** and **CD (Continuous Deployment)** methodologies using **Jenkins.**
* Extensive experience in setting up baselines, branching, merging, and automation processes using **Power Shell** and **Perl scripts.**
* Experience in implementing and administering monitoring tools **Splunk and Nagios.**
* Experience with container-based deployments using **Docker,** working with **Docker images, DockerHub**, Docker registries, and **Kubernetes.**
* Proficient in managing the source code control of multiple development efforts using **Clear Case, Subversion, TFS,** **Git, and CVS** version control tools.
* Experience in integrating cloud services into DevOps framework **(GitHub, Jenkins, Ansible, Splunk)** which enables API requests to provision and configure infrastructure through infrastructure as code capability.
* Expertise in supporting Database environments like **Oracle, MySQL, and DB2. Also, NoSQL** databases such as D**ynamoDB, Cassandra DB, MongoDB,** etc.
* Hands-on experience in integrating Jenkins CI tool with build automation tools like **ANT, Maven, and Gradle** for building deployable artifacts **(JAR, WAR & and EAR)** from source code.
* Expertise in App Containerization technology Docker, creating Docker images, Containers, Docker Registry to store images, cloud-based registry Docker Hub, and Docker Swarm to manage containers.
* A highly motivated, energetic individual, a team player with excellent communication and interpersonal skills.

**Technical Skills:**

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| **Programming Languages** | JAVA, .NET, Bash scripting, Perl, Ruby and Python |
| **Cloud** | AWS, Azure |
| **Configuration Management Tools** | Chef, Puppet, Ansible |
| **Container-Orchestration** | Kubernetes, Docker |
| **Database** | My SQL, Oracle, |
| **Version Control System** | Subversion (SVN), GIT, GITHUB, CVS, |
| **CI Tools** | Jenkins, Team City, Bamboo |
| **Build Tools** | Maven, Ant |
| **Server** | Apache, Tomcat, MS-IIS, JBOSS |
| **Release/Project Management** | Microsoft Release Management Server |
| **Issue Tracking/Monitoring** | Bugzilla, JIRA, Service Now, HPSM, Cloud Watch and Nagios, Service-Now |
| **Operating System** | Windows Variants, Linux, UNIX, Mac OS. |

**Professional Experience:**

***DevOps Engineer***

**Collaborate IT Solutions Inc.**

**Location: Toronto, ON**

**Duration: July 2021 to Present**

**Roles and Responsibilities:**

* Coordinated with resources by working closely with the Project Manager for the release and the Project Manager for all the Operational Projects.
* Actively involved in the architecture of the **DevOps** platform and cloud solutions.
* Used **Terraform** and **Ansible**, migrated legacy and monolithic systems to Amazon Web Services. Used Terraform scripts to configure AWS resources.
* Created and configured AWS EC2 instances using preconfigured templates such as AMI, RHEL, Centos, and Ubuntu as well as used corporate-based VM images which include complete packages to run build and test in those EC2 Instances.
* Deployed several **Kafka services**, **micro-services,** and **Elastic search** services on **Docker** containers.
* Implemented and written **Chef Cookbooks** for OS component configuration and various DB configurations for minimal AWS template usage and optimized final product.
* Worked on chef recipes for deployment on internal build-in data center servers. The **chef recipes** were used again to deploy into EC2 instances.
* Managed Systems with **Ansible**, Created Custom roles and Playbooks.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Scheduled, deployed and managed container replicas onto a node cluster using **Kubernetes** and converted VM-based applications to microservices and deployed as a container managed by **Kubernetes**
* Created **Docker** images using a **Docker file**, worked on **Docker** container snapshots, removed images, and managed **Docker** volumes.
* Extensively used **Terraform** in **AWS Virtual Private Cloud** to automatically set up and modify settings by interfacing with the control layer.
* Implemented and maintained CI environments (Jenkins/Hudson) in performing deployments, Packaging, build optimization, production rollouts, staging, defect tracking (JIRA), root cause analysis, Smoke testing, Operation support, and service delivery over web/app servers like JBoss, Tomcat and WebLogic, MAVEN.
* Monitoring Jenkins jobs and contacting the team if progress is not evident on fixing stability issues.
* Create Docker Containers leveraging existing Linux Containers and AMI in addition to creating.
* Using **Bash and Python** including Boto3 to supplement automation provided by Puppet and Terraform for tasks such as encrypting EBS volumes backing AMIs and scheduling **Lambda functions** for routine AWS tasks.
* Managed a **PaaS** for deployments using **Docker**, and **Ansible** which reduced deployment risks.
* Used **Atlassian JIRA** as a ticketing tool for issue tracking and container management using Dockers.
* Created repositories, branches, and tags in **GIT**, assisted the developers in fixing merging issues, and created local, Virtual **Repositories** in **Artifactory** for the project and release builds.

**Environment**: DevOps, SVN, CVS, Maven, AWS, EC2, Ansible, Chef, Terraform, Git, CI/CD, SonarQube, Jenkins, Nuget, Power Shell, Team City, Docker, Kubernetes, Puppet, Tomcat, Shell, Perl, TFS, Nexus, JIRA, Windows and LINUX.

***DevOps Engineer***

***9991620 Canada Inc.***

**Location: Toronto, ON**

**Duration: Aug 2020 to Jul 2021**

**Roles and Responsibilities:**

* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Worked in an **agile** development team to deliver an end-to-end continuous integration/continuous delivery **(CI/CD)** product in an open-source environment using tools like **Puppet and Jenkins.**
* Leveraged Amazon Web Services like **EC2, RDS, EBS, ELB, Auto scaling, AMI, and IAM through AWS console and API Integration.**
* Created scripts in Python which integrated with **Amazon API** to control instance operations.
* Wrote many Python scripts and also implemented an automated testing strategy for Robustness and longevity/Load testing on the systems using **Jenkins** and **Docker.**
* Operated with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, and Change.
* Working on Inbound and Outbound services with automation. Deployed multiple resources simultaneously, using **CloudFormation** templates in AWS.
* Deploy and monitor scalable infrastructure on **Amazon web services (AWS)** & and configuration management using **Puppet.**
* Deploy **Ansible** and **Jenkins** to completely provision and manage **AWS EC2 instances, volumes, DNS, and S3.**
* Involved in creating and working through **Docker images**, containers, and **Docker Consoles** for managing the Application Life cycle.
* Responsible for continuous integration and continuous delivery using **Jenkins, Maven, and Chef.**
* Worked with **Red Hat OpenShift** Container Platform for Docker and **Kubernetes.** Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services, and deployed application containers as Pods.
* Troubleshooted and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Set up and executed process to code review system effectively.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Set up customized monitoring with **Nagios, &PNP4Nagios** Graphs for the legacy and new environments.
* Documented release metrics, and software configuration process. Used Maven scripts to build the source code. Supported and helped to create Dynamic Views and Snapshot views for end users.
* Performed Branching, Tagging, and Release Activities on Version Control Tools: **GIT**
* Involved in setting up **JIRA** as defect defect-tracking system and configured various workflows, customizations, and plugins for the JIRA bug/issue tracker.
* Supporting engineering plans and schedules by providing CM/Release Engineering services to build, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to the engineering team.

**Environment:** Docker, Kubernetes, Nagios, GIT, AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53),Jenkins, Maven, Jira, Linux, Agile.

***DevOps Engineer***

**GUS Education India.**

**Location: Hyderabad, India**

**Duration: May 2019 to June 2020**

**Roles and Responsibilities:**

* Gathered all the **stakeholder approvals, and necessary signoffs** while acting as a DevOps/Release manager for two development teams.
* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system.
* Developed and implemented **Software Release Management** strategies for various applications according to the agile process.
* Responsible for Continuous Integration **(CI)** and Continuous Delivery **(CD)** process implementation using Jenkins along with Python and Shell scripts to automate routine jobs.
* Installed, Configured, and Administered **Jenkins** Continuous Integration Tools.
* Involved in the project setting up the build using Ansible.
* Proposed, Implemented, and maintained New **Branching strategies** for development teams to support trunk, and development baseline codes along with several feature branches.
* Responsible for defining branching & and merging strategy, check-in policies, improving code quality, automated Gated Check-ins, and defining backup and archival plans.
* Implemented new project builds framework using **Jenkins & maven** as build framework tools.
* Used **Maven** as a build tool on Java projects for the development of build artifacts on the source code.
* Developed automation framework for Application Deployments to the cloud environments.
* Implemented AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer,** Auto scaling groups, Optimized volumes and EC2 instances.
* Performed Branching, Tagging, and Release Activities on Version Control Tools: **GIT.**
* Performed and deployed Builds for various Environments like QA, Integration, UAT, and production environments
* Automate and deploy development environments using **Ansible** to various cloud providers **Amazon AWS and EC2, and Jenkins** testing.
* Worked on the installation and configuration of the monitoring tool Nagios.
* To achieve the Continuous Delivery goal in a highly scalable environment, used Docker coupled with load-balancing tool Nginx.
* Worked on Apache and Firewalls in both development and production.
* Deployed and configured Atlassian Jira, both hosted and local instances for issue tracking, workflow collaboration, and tool-chain automation.
* Troubleshooted and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Set up and executed process to code review system effectively.

**Environment:** Java, Jenkins, Maven, Nagios, SQL, Ansible, AWS, Nagios, IBM WebSphere, Python, Docker, Java/J2EE, Git, JIRA, XML, Linux.