**Sr. DevOps Engineer**

**BATTU NAVEEN RAHUL**

**Summary:**

* Over **8+ years** of experience as **Sr. DevOps Engineer** in automating, building, deploying, and releasing of code from one environment to another environment and in Configuration Management, Build, Deploy, Release Management, Quality Assurance and Technology.
* Expertise in writing **CHEF/ANSIBLE Cookbooks/Playbooks** to automate Infrastructure as a code.
* Experienced with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation. Collaborate in the automation of **AWS infrastructure via Terraform and JENKINS -services configuration via Chef Cookbooks.**
* Experience in provision of automation tools like **Chef, Puppet, Terraform and Ansible** in addition to deployment tools like **GIT, Terraform, Perforce, Jenkins and Bamboo.**
* Experienced in doing **IT orchestration using ANSIBLE**, to run tasks in sequence and produce chain of events which can work on different servers.
* Experience in using **KUBERNETES and DOCKER** for the runtime environment for the CI/CD system to build, test, and deploy.
* Installed and Managed **Jenkins** and **Nexus** for CI and Sharing Artifacts respectively within the company. Extensively worked on **Hudson and Jenkins** for continuous integration and for End-to-End automation for all build and deployments.
* Experience with CI **(Continuous Integration)** and **CD (Continuous Deployment)** methodologies using **Jenkins.**
* Experience in working with different build automation tools like **JENKINS** and **MAVEN** to achieve End-to-End Automation and Responsible for installing **JENKINS master** and **slavenodes**.
* Good experience in Configuring **JENKINS** as a CI engine to build and promote applications to QA, UAT and Staging to LINUX environments.
* Production experience in large environments using configuration management tools CHEF, ANSIBLE and PUPPET.
* Experienced in **Using ANT and PYTHON** scripts to automate the Build and Deployment process.
* Hands on experience with **PUPPET Manifest files** to deploy automated tasks to many servers at once.
* Expertise in creating DevOps strategy in a various distribution of LINUX and WINDOWS alongside using DevOps tools suites like Subversion **(SVN), GIT, MAVEN, JENKINS, CHEF, PUPPET, DOCKER, KUBERNETES, ARTIFACTORY, NAGIOS** in traditional environments, as well as cloud-pass environment like AWS.
* Experience in developing PYTHON script that allows access tokens of antifactory to send images from DOCKER registry.
* Experienced in **writing Python, Perl, Groovy, Bash and Power Shell scripts** for process automation of systems, applications, backups etc.
* Well experienced in Configuring, Managed Monitoring Tools such as **NAGIOS, SPLUNK for Resource Monitoring, Network Monitoring, Log Trace Monitoring** and different Bug Tracking Tools like **Remedy, Jira, ServiceNow and Clear Quest**. Designed, deployed and coordinated with different teams to enhance ELK platform and took ownership of new technologies.
* Experience in testing frameworks such as **JUNIT and SELENIUM.**
* Experience in Monitoring using **ANSIBLE Playbooks** and has integrated **ANSIBLE with JENKINS.**
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.
* Good analytical, problem solving, communication skills and can work independently with little or no supervision or as a member of a team.

**Technical Skills:**

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| **DevOps Tools** | Chef, Ansible, Puppet, Docker, Kubernetes, SonarQube, Terraform. |
| **Build tools** | Ant, Maven, Gradle, MS Build |
| **CI Tools** | Jenkins, TeamCity, Bamboo |
| **Repositories** | Nexus, JFrog, Artifactory |
| **Cloud** | AWS, Azure |
| **Monitoring Tools** | Nagios, Splunk |
| **Version Controls** | SVN, CVS, GIT, BitBucket |
| **Servers** | Apache Tomcat, JBoss, WebLogic, WebSphere, TFS, Nginx |
| **Networking** | TCP/IP, SSL, SHL, Firewall, FTP, HTTPS, DCHP, DNS, LAN, WAN |
| **Scripting** | Agile, Waterfall, TDD |
| **Methodologies** | Git, GitHub |
| **Operating Systems** | Windows, LINUX, UNIX |

**Educational Details:**

* Master of Science in Information Technology Management, Webster University, San Antonio, TX.
* Bachelor of Technology in Electrical and Electronics Engineering, Sri Indu College of Engineering and Technology, Hyderabad, India.

**Professional Experience:**

**Charles Schwab,** **Dallas, TX October 2023 – Till Date**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Integrate automate build with Deployment Pipeline. Currently, chef servers and clients collect build from **Jenkins** Repository and deploy them in target environments (QA and Production).
* Create and maintain fully automated CI/CD pipelines for code deployment using Octopus Deploy and **PowerShell.**
* Collaborated with DevOps team and was responsible for specialization in chef for Cloud automation.
* Participated in Integrating Jenkins with various **DevOps** tools such as **Nexus** and **SonarQube.**
* Build and released module development of new products.
* Built **Jenkins** and configured a **Maven project** to create and deploy the artifacts.
* Built CI/CD pipeline and configured all the credentials and users in **Jenkins.**
* Implemented and written **Chef Cookbooks** for OS component configuration and various DB configurations for minimal AWS templates usage and optimize 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.
* Developed Amazon **AWS Cloud Formation templates** to create custom **sized VPC, subnets, EC2 instances, ELB, Security Groups, load balancer, Lambda** and **Cloud Watch.**
* Actively manage, improve, and monitor cloud infrastructure on **AWS solutions** and services using **EC2, S3, VPC Peering, RDS, EBS, ELB, Autoscaling and Opswork.**
* Used **EC2, Auto-scaling and VPC** to build secure, for highly scalable and flexible systems that handled expected and unexpected load bursts.
* Setup monitors, alarms and notifications using **Cloudwatch.**
* Written **Terraform templates, Chef Cookbooks**, recipes and pushed them onto Chef Server for configuring EC2 Instances.
* Maintained and managed **Ansible** Playbooks responsible for deploying Framework and other cloud tools.
* Well equipped with Playbooks on **Ansible,** utilized file module to copy and remove files on host systems.
* Written **Ansible scripts** to restart services in all production servers.
* Created **Docker** images using a **Docker** file, removing images and managing Docker volumes.
* Develop **CI/CD** system with **Jenkins on Kubernetes** container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Terraform and Ansible used to migrate legacy and monolithic systems to Amazon Web Services. Used Terraform scripts to configure AWS resources.
* Integrated **Docker** container orchestration framework using Kubernetes by creating pods, config Maps and deployments.
* Used Repository Management tools like **Artifactory and JFrog.**
* Deployed multiple-platform servers monitored and distributed using **Nagios.**
* Integrated **SonarQube** with existing builds using **SonarQube** analysis build tasks.
* Used to build tools **Maven** to automate and enhance operation environment.
* Implemented & maintained the branching and build/release strategies utilizing BITBUCKET.
* Worked on **Jenkins** to monitor and provision various modules into single platforms.
* Troubleshoot issues along CI/CD Pipelines.
* Working on **GIT** for data integrity and managed central repositories: Implemented Atlassian Stash along with **GIT to host GIT** central repositories for source code across products, facilitate code reviews and login audits for Security Compliance.
* Developed installer scripts using **Python** and **UNIX** for various products to be hosted on application servers.
* Actively participant in scrum meetings, reporting the progress and maintaining good communication with each team member and managers.

**Environment:** DevOps, GIT, Chef, Nexus, SonarQube, Jenkins, Python, Terraform, AWS, AWS Cloud Formation, AWS CDK, Maven, EC2, WebSphere, VMware, Putty, Confluence, SOA, Ansible, Docker, TFS.

**Hidden Brains, Hyderabad, India December 2020 - December 2022**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in transforming the legacy Admin model to DevOps model by introducing various automation tools for host and cluster management.
* Worked on building an automation pipeline to deploy and orchestrate services in **AWS**.
* Involved in configuring and integrating the servers with different environments to automatically provisioning and cresting new machines using CM/ Provisioning tools like Chef and Ansible.
* Developed Chef Recipes to configure, deploy and maintain software components of the existing infrastructure.
* Implemented Chef best-practices and introduced Test Kitchen to facilitate a more natural cookbook development workflow.
* Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment on **OpenStack** environments through automated tools, Ansible / custom pipeline.
* Integrated Jenkins with various DevOps tools such as Nexus, GIT, SonarQube, Maven, and developed Jenkins jobs to automatically manage, test and deploy code and applications.
* Involved in Jenkins plugin management areas and implemented **several CI/CD** plugins like **AWS EC2**, **build pipeline, Docker, GIT, JUnit** and **pipeline plugins.**
* Setup and build AWS infrastructure in various resources **VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, RDS** in Cloud formation **JSON** templates.
* Created Cloud Formation template stacks to automate for building new VPCs using JSON files.
* Worked on creating Terraform modules to launch instances in AWS & automated process of creation of resources is AWS using **Terraform**.
* Used Jenkins pipelines to drive all micro-services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Developed micro-service on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with **Chef/Puppet**.
* Used Terraform and Ansible, migrate legacy and monolithic systems to Amazon Web Services. Used Terraform scripts to configure AWS resources.
* Configuring CD/CI tools using Blue - **Green deployment methodology**.
* Created various Cloud Formation templates for application deployment and management.
* Responsible for supporting and troubleshooting AWS Pipeline deployments
* Maintained build related scripts developed in maven and Shell. Modified build configuration files including Ant's build.xml.
* Developed PowerShell 2.0 scripting to work with TFS Object Model to utilize for more repeatable, automated processes and tasks.
* Writing Docker file, Building Docker images and pushing Docker Trusted Registry.
* Created quality gates in SonarQube dashboard and enforced in the pipelines to fail the builds when conditions not met.
* Made automated python script to run every quarterly to update the Ami security patches.
* Written **Shell scripts** to apply the Integration label to all the files which need manual labelling of files.
* Using Git for source code version control and integrating it with Jenkins for CI/CD pipeline, code quality tracking and user management with build tool Maven.
* Responsible for merging, tagging and conflict resolution in GIT.
* Created and maintained user accounts, roles on **MySQL** production and staging servers.
* Configured the Load Balancers and VPC with Public and private subnets.
* Supports weekly on call for troubleshooting application after hour issues.

**Environment:** Jenkins, AWS (EC2, S3, Redshift, Cloud Formation), Terraform, Chef, Ansible, Docker, Python, Shell scripting, Ruby, MySQL, JIRA, Jenkins, Docker, Kubernetes, SonarQube, Nexus, GIT and Linux.

**Altisource, Bengaluru, India April 2019 – November 2020**

**Role: DevOps/Build-Release Engineer**

**Responsibilities:**

* Planning & scheduling build release time, Reviews coding.
* Responsible for Software Configuration Management, Installing Software and maintaining the Build Environment using **Ansible and Chef.**
* Administered **Maven** repositories source tree and user account administration, branching, merging, patch fixes, snapshots, and training users on the systems.
* Perform Build and release process through **Maven.**
* Worked on Maven as a build tool on java projects for the development of build artifacts on the source code.
* Managed Version Control Subversion **(SVN) and GitHub** Enterprise and Automated current build process with **Jenkins** with proposed Branching strategies to accommodate code in various testing cycles.
* Implemented **Chef Recipes** for Deployment on build on internal Data Centre Servers. Also re-used and modified the same **Chef Recipes** to create a Deployment directly into **Amazon EC2** instances.
* Evaluating testing of **Chef Recipes** – Concept of Test-Driven Development for Infrastructure as a Code.
* Advanced data strategies measuring end-user adoption and behavior across **Azure** provide a mathematical and data-driven analysis towards understanding of O365 services and activities supporting users.
* Updated existing shell scripts to reflect **GIT** changes.
* Updated all the **Jenkins** Continuous Integration jobs, dependent jobs, snapshot jobs, release jobs, DB deployment jobs to reflect **GIT** changes.
* Installed and Configured **Jenkins** and **Jenkins** slave machines.
* Implemented DB deployment jobs from **Jenkins.**
* Implemented multi-parallel jobs in **Jenkins** which do CI, packaging, Sonar job and deployment job to different environments such as DEV, TEST and Production.
* Defined branching, labeling, and merge strategies for all applications in **Git**.
* Ability to design application on AWS taking advantage of **Disaster Recovery.**
* Worked on **CI/CD tool Jenkins** to automate the build process from version control tool into testing and production environment.
* Deploying software to Development, Quality Assurance, and Production environments using Octopus Deploy.
* Deployed builds from TFS to all environments with Octopus Deploy.
* Coordinated with the Project Management, Development and QA Team in resolving any Build and Release issues and providing smooth release process.

**Environment:** DevOps, Disaster Recovery, GIT, SQL, Jira, Unix/Linux, Shell scripting, Jenkins, Chef, Nginx, Apache Tomcat.

**PI Tech Pvt. Ltd., Hyderabad, India November 2017- March 2019**

**Role: Build-Release Engineer**

**Responsibilities:**

* Primary duties include Build & Deployment of the **Java** applications onto different environments Dev, QA & UAT.
* Creation, Management and Configuration of Virtual Machines, Clone and Templates.
* Hands-on Experience on Jenkins, Developing Custom **Jenkins Plugins,**
* Developed **Jenkins Plugins** which integrates our In-house tools with **Jenkins.**
* Implemented **E2E** pipeline in **Jenkins** which would do the following activities:
* Poll the **SCM** for new commits using **SCM and SVN.**
* Created and maintained documentation of build and release processes and application configuration to comply with audit requirements and Industry best practices.
* Produced release notes and other build-related documentation.
* Developed scripts using **Python, Bash, and Batch files** for automation of activities and builds.
* Build the code using build tools using **Maven, Ant, etc.**
* Build scripts using **ANT and MAVEN build tools in Jenkins.**
* Analyze and create daily reports on the status of server backups on intranet and extranet.
* Provide complete phone support to customers.
* Designed and implemented automation deployment using to promote major releases, monthly releases, and patches from Development to Integration/QA, Staging/UAT and Production.
* Leveraging project specific knowledge from developers, resolved code conflicts during merges and provided insight as needed.

**Environment:** Java/J2EE**,** Subversion, ANT, Maven, Jenkins, Python, UNIX, Shell scripts.