Tallapaneni sarath babu

Contact No**:** +91-8374296657

Email ID: Sarath481babu@gmail.com **DevOps Engineer**

An experienced IT professional with 4.5 years of strong Experience in DevOps Infrastructure, Build

**Experience**

& Release and Configuration Management on Unix/Linux and AWS environments.

**Professional Summary**

* An experienced IT professional with 4.5 years of strong Experience in DevOps Infrastructure, Build & Release and Configuration Management on Unix/Linux and AWS environments.
* Implemented a CICD pipeline involving Jenkins, Docker and AWS to complete the Automation from commit to Deployment.
* Experience in Branching, Merging, Tagging and maintaining versions across the environments using SCM tools like Subversion (SVN), GIT (GitHub, GitLab)
* Experience in using build automation tools like MAVEN for building of deployable artifacts such as WAR, JAR & TAR from source code.
* Experience in using CI tools like Jenkins, Hudson & Bamboo for automation of builds.
* Have good knowledge in installing, configuring and administering Jenkins Continuous Integration tool on Linux servers along with updating plugins such as SVN, GIT, Maven
* Experience in Implementation of Continuous Integration through Jenkins & Deployment using Ansible.
* Experience working with Sonar/SonarQube a code quality control tool for continuous inspection.
* Proficient in Build & Release automation framework designing, Continuous Integration and Continuous Delivery, Build & release planning, procedures, scripting & automation.
* Good Knowledge in bash (Shell), Groovy and exposure to Python scripting.
* Experience is using Apache and Nginx web servers and application servers like Tomcat, Websphere and JBOSS for deployments.
* Experience with Docker and Kubernetes for different infrastructure setups and testing of code.
* Experience with Configuration and Maintenance of Automation tools like Ansible.
* Having good Experience with Ansible for transferring and running the modules with the help of SSH based systems and writing playbooks for server configuration.
* Involved in writing various custom Ansible Playbooks for deployment orchestration and developed Ansible Playbooks to simplify and automate day-to-day server administration tasks.
* Used Ansible to manage web applications, environment configuration files, users, mount points and packages.
* Automated application deployment to web/application servers in cloud using Docker containerization technology and generate artifacts.
* Docker containerization, building Docker images at root of the repository, configuring the Docker containers and creating Docker files for different environments.
* Experience in deploying, migrating, replicating relational, NoSQL databases such as Oracle, MySQL, Postgress and MongoDB.
* Experience working with collaboration tools like Jira, Confluence, Slack.
* Build Complete Infrastructure using Terraform script.
* Created Terraform scripts to move existing on-premise applications to cloud, used Terraform templates along with Ansible modules to configure EC2 instances.
* Experience installing and administrating monitoring tools such as Splunk and monitoring, logging of these systems running on cloud(s) and on premise.
* Designed, configured and managed public/private cloud infrastructures in Amazon Web Services (AWS).
* Experience in configuring Network services such as DNS, NFS, SMTP, NTP, DHCP, LDAP, SAMBA, SQUID, postfix, send mail, ftp, remote access, security management and Security trouble shooting skills.

**Technical Skills**

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| **Version Control** | **SVN/Subversion, Git** |
| **Build Tool** | **Maven** |
| **Continuous Integration** | **Jenkins/Hudson, Bamboo and EC** |
| **Configuration Management Tool/CD** | **Ansible** |
| **Containerization Tool** | **Docker, Kubernetes** |
| **Scripting Language** | **Shell Scripting , YAML** |
| **Container Orchestration Tool** | **Terraform** |
| **Cloud Platform** | **AWS** **(VPC,** **EC2,** **S3,** **Dynamo** **DB), Cloud** **formation, Cloudwatch, RDS,**  **IAM** |
| **Languages** | **Java, C, C++** |
| **Operating System** | **Windows XP, Windows 7, UNIX,LINUX** |
| **Database** | **MySQL, Postgress and MongoDB** |
| **Web Server** | **Apache, Nginx** |
| **Bug/Defect Tracking Tools** | **JIRA** |
| **Code Coverage Tool** | **Sonarqube** |
| **Repository Management Tool** | **JFrog artifactory, Nexus** |
| **Application Server** | **Apache Tomcat** |
| **Framework** | **ITIL** |

**Professional Experience**

* Currently working as **Build and Release Engineer/Devops Engineer** for **Tata consultancy services,** Hyderabad from feb 2019 to till date.

**Project Working Experience**

# Project 1:

**DevOps Engineer**

**Powerschool Group LLc.,**

**GA**

**Feb2019 to Till date**

# 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.
* Manage Code Repository by maintaining code repository in GIT; improve practices of branching and code merge to custom needs of development team.
* Implemented Jenkins as ContinuousIntegration Server, for - Installation, Configuration, Design and Administration, and integrating tools with other systems.
* Installing and administering SVN, Jenkins and Nexus.
* Worked hands-on to create automated, containerized cloud application platforms (PAAS), and design and implement DevOps processes that use those platforms.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
* Built AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Used Amazon RDS to manage, create snapshots, and automate backup of database.
* Designing and implementing fully automated server build management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agents, SSH, deployment and testing.
* Scripting in multiple languages on UNIX, LINUX and Windows **-** Batch, Shell, python, groovy script etc.
* Troubleshoot the build issue during the Jenkins build process.
* Deployed the generated build to WEB and APP server using the continuous integration process to all Environments. Coordinated different teams across the globe to deploy different builds to different environments on parallel development for multiple projects. (DEV, QA, PERF, REG, STAGING, PRODUCTION)
* Managed daily builds and releases to QA. Debugged build failures and worked with developers and QA personnel to resolve related issues.
* Monitored software, hardware, and/or middleware updates and utilizing technologies like Jenkins,maven and Subversion.
* Code Coverage- Installed SONAR on Jenkins server and configure with the build process for the code analysis process for better code quality and code metrics, and rapid feedback for development teams and managers.
* Resolved system issues and inconsistencies in coordination with quality assurance and engineering teams.
* Used the JIRA for bug tracking, creating the dashboard for issues.
* Worked on cross-platforms (Windows-Unix)

**Environment:**

AWS, Chef, GIT, Jenkins, WebLogic, JIRA, Maven, Service Now, Sonar, EC2 instances, Auto Scaling, Elastic Load Balance and AMIs

# Project 2:

**DevOps AWS Engineer  
 South Florida Water Management District**

**West Palm Beach,FL  
 Nov 2016 to Feb 2019 Sr**

# Roles and Responsibilities

* Designing and delivering automated solutions for CI & CD into a cloud environment like AWS.
* Supported existing Development/QA/UAT/Production environments and ensure smooth working order Product deployments, patches, and hotfixes Investigating customer performance issues Implementing proactive monitoring and improving existing monitoring System log analysis Securing infrastructure and participate in security reviews Writing scripts to automate repetitive tasks.
* Administered and Engineered Jenkins for managing Build, Test and Deploy chain, SVN with Dev/Test/Prod Branching Model for weekly releases.
* Set up Jenkins server and build jobs to provide continuous automated builds based on polling the SVN source control system during the day and periodic scheduled builds overnight to support development needs using Jenkins, JUnit, Selenium and Maven.
* Jenkins – automates the provisioning and configuration for all of the Jenkins Continuous Integration Server including plugins, jobs, server configuration, etc.
* Hosting applications with the AWS Cloud. Proficient in using all Amazon Web Services including EC2, ELB, S3, WAF,VPC.
* Launched AWS EC2 instances, configured, connected and terminated.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
* Built AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Automated various service and application deployments with Ansible on Ubuntu and RHEL.
* Created Ansible supported YML scripts to restart JBoss, Tomcat, Jetty servers through GUI.
* Created Ansible playbooks for various automation purpose, file copy, permission changes, configuration changes, path specific folder creation, etc.
* Written playbook using Ansible modules
* Setup Docker to automate container deployment through Jenkins.
* Worked on Docker container to create Docker images for different environments.
* Maintain and support Docker containers running on Ubuntu machines.
* Worked on Docker hub, creating Docker images and handling multiple images primarily for middleware installations and domain configurations.
* Docker: - worked on containerization technologies to build and deploy services as images to cloud environment, also integrated the process as part of build pipeline. In Jenkins every time it builds a new image, test the image and push to the repository.
* Responsible for deploying various application through Docker containers.
* Using Terraforms configure the variables, syntax and support for AWS.
* Created the terraform templates for building a stack
* Unix Shell/Perl scripting for job automation. Creating zones in AWS for application.
* Used Groovy and Python Scripts to Automate the Build and Deployment Process to the Web Services.
* Developed build and deployment scripts using NPM and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, GIT with Dev/Test/QA/Reg/Prod Branching Model for weekly releases.
* Handled configuration-management, application deployment, cloud provisioning, ad-hoc task-execution, configuration and maintenance of Tomcat servers and multi node orchestration using Ansible.
* Rolled out Ansible automation and wrote playbooks and roles to update configurations of Dev/QA/Prod servers.
* Perform sonar, security-scans, CLM analysis and pmd stages in Jenkins file for automation.
* Experience in uploading Artifacts to Artifactory, Nexus using Maven, NPM build tools.
* Integrated collaborated tools Jira and slack.
* Added Hooks for Jenkins Automation.
* Monitor the each servers health-check by using Splunk dashboards.
* Work on Adding WAF, PROXY bypass servers in Architecture.
* Uses docker images to run the applications dependencies inside the containers.

**Environment:**

RHEL6.x/7.x,Ubuntu,AWS,Docker,Terraform,Jenkins2.4x,Ansible2.0.x,Maven3.3.x,NPM,Artifactory,Nexus,Datadog, Jira, Postgress, MongoDB, GIT, Shell.

**Personal Details**

# Academic Profile:

* B.Tech Computers from JNTU Kakinada in 2014.