**VENKATESH GALI**

**AWS DevOps Engineer**

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**PROFESSIONAL SUMMARY**

* Around 5 years of IT experience as a **Build and Release/DevOps Engineer** in automating, building, deploying, and releasing of code from of one environment to another environment.
* In-depth understanding of the principles and best practices of **Software Configuration Management** (SCM) in **Agile**, **SCRUM**, Waterfall methodologies.
* Designed and maintained **AWS** infrastructure highly available, scalable, secured, monitored and alerting network infrastructure.
* Experienced in Managed **AWS** infrastructure with automation and configuration management tools such as **Chef, Ansible, Kubernetes, CloudFormation**and **Terraform.**
* Performed **Continuous Delivery** in a microservice infrastructure with **Amazon cloud, Docker and Kubernetes** and **Amazon ECS**.
* **AWS certified developer associate** and Strong experience with using a broad range of AWS services **(EC2, RDS, ELB, S3, IaaS, PaaS, AWS CLI, CloudWatch, Lambda, CloudTrail, DynamoDB, SNS)**.
* Experienced in scaling Amazon **RDS, MySQL, MongoDB, DynamoDB** instances vertically and horizontally for high availability.
* Intensively working on AWS Cloud Services that include AWS Storage, Content Delivery, Compute, Networking, Database, and AWS Deployment Management Service.
* Experience in routing production traffic for high availability multi-site using **Route 53** using **failover** and **weighted** Routing policies.
* Strong experience in Git / Perforce SCM supported the Configuration Management process, Created and maintained Organizations, Teams, Roles, Projects with in the Git/Github, added contributors to projects and performed upgrades and installs.
* Hands on Experience on **GIT** and **SVN** to help manage and document all the changes to **Application code** and **Configuration management code** and having strong experience on source control concepts like **Branches, Masters** and **Tags.**
* Handling, deploying, maintaining various servers, including application, Database, Web, Mail, Virtual, Configure and ensure connection to RDS database running on MYSQL engines.
* Build infrastructure with custom **Terraform** templates and maintained them as a part of **Disaster Recovery.**
* Hands-on experience creating and managing the various development and build platforms, and deployment strategies.
* Extensively experienced in using Build Automation tools like **ANT**, **Maven** and **Gradle** by using repos like **Nexus and Artifactory.**
* Created SCM Process, policies, procedures and Release Notes to follow Development and allow **QA** teams to Release or Deploy highest quality product for the enterprise.
* Experience in Deploying **JBoss, Apache Tomcat web server, and IBM WebSphere.**
* Implemented Continuous Integration (CI) and deployment using CI tools such as **Jenkins, Teamcity.**
* Created build environments for **Java** and **.NET** using **Jenkins, SVN/Git/GitHub, Maven** and number   
  of reporting tools Such as **SonarQube**, and **Travis CI** and added Build Badges Status report.
* Set up **uDeploy** server along with automated scripts to back up the server and restore from backup for disaster recovery and Managed build results in **uDeploy** and deployed using workflows in **uDeploy**.
* Experience in working on **XL Deploy, XL Release** for continuous delivery of applications and integrating **XL Deploy** with **Jenkins.**
* Expertise in all areas of **Jenkins** like plugin management, securing and scaling Jenkins, integrating ode analysis, performance issues, Analytics and Test phases to complete the **CI/CD Pipelines** within Jenkins.
* In-depth knowledge of computer applications and scripting like **Shell, Python, Ruby**, **JavaScript** and **XML**.
* Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing **PowerShell, Bash**.
* Proficient in Front end development experience using **C#, .NET, ASP.NET, HTML, CSS, JSON, JavaScript, Node.JS and REST.**
* Used **Puppet, Chef and Ansible** for Configuration Management and also understanding of container technologies like **Docker.**
* Experience working on several **Docke**r components like **Docker** Engine, Hub, Machine, creating **Docker** images, Compose, **Docker** Registry and handling multiple images primarily for middle ware installations and domain configurations.
* Closely worked with development, QA and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building.
* Installed, configured and Managed Monitoring Tools such as **Splunk, Nagios** for Resource Monitoring, Network Monitoring, Log Trace Monitoring.
* Worked with different Bug tracking tools like **JIRA and Remedy**.
* Setup Jira “**Timesheet Report**”, plugin, to help users for time-tracking on their dashboards using a **JQL** or by configuring manually.
* Team player with excellent interpersonal skills, self-motivated, dedicated and understanding the demands of 24/7 system maintenance and has good customer support experience.

**TECHNICAL SKILLS:**

* AWS: EC2, Lambda, ELB, VPC, RDS, IAM, IaaS, PaaS, S3, SNS, SQS, EBS,

Storage Gateway, ECS.

* Versioning Tools: CVS, Subversion, GIT,
* Configuration

Management Tools: Chef, Ansible and puppet

* CICD Tools: MS visual studio, TFS, Jenkins, Artifactory, Ansible, Docker, Puppet, Chef
* Code quality: SonarQube
* Build Tools: ANT, MAVEN, GRADLE
* Scripting: PowerShell, Bash, Python, Groovy, YAML
* Web Technologies: C#, Java Script, HTML, XML, JSON, Node.JS, .NET
* Web/App server: Web logic, Web Sphere, Apache Tomcat, JBOSS.
* Database: SQL SERVER, NoSQL, MySQL, DynamoDB, MongoDB
* Bug Tracking Tools: JIRA, Remedy
* Binary Repository: Nexus, Jfrog Artifactory
* Operating Systems: Windows, Unix, Linux,

**PROFESSIONAL EXPERIENCE**

**Client: Fidelity Investments**

**Location: Boston, MA March'2019 to July’2019**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Worked on core **AWS** services such as setting up **EC2** instances in **AWS**, configuring security groups, and setting up Elastic IP's and Configured Elastic Load Balancers (**ELB**) with EC2 Auto scaling groups.
* setup and build AWS infrastructure various resources, **VPC, EC2, S3 IAM, EBC, security group, auto scaling, and RDS in cloud formation.**
* Created monitors, alarms and notifications for **AWS EC2** hosts using **Cloud Watch** and used **AWS Lambda.**
* Created branching and tagging strategies to maintain the source code in the **Bitbucket** repository and coordinate with developers with establishing and applying appropriate branching, naming conventions using **GIT** source control.
* Configured and automated the Jenkins jobs **Continuous integration** and **Continuous Development.**
* Created and configured environments in **uDeploy** and mapped to the components for the Spring Boot applications and deployed in servers through **uDeploy.**
* Build artifacts (war and Jar) from Sona type **Nexus Artifactory** are deployed into an Apache Tomcat app server using Shell Scripts.
* Used **Shell** scripts to automate the deployment process
* Build out server automation with continuous integration - continuous deployment(ci/cd) tools like **Jenkins/maven/nexus** for deployment and build management system.
* Built various containers using **Docker** engine and Docker Machine environments, to deploy the microservice oriented environments for scalable applications
* involved in python script to automate cron jobs and system maintenance.
* Migrated the current **Linux** environment to **AWS/RHEL(RedHat)** Linux environment and used auto scaling feature. Involved in Remediation and patching of **Unix/Linux** Servers.
* used **Jira** to track issues and change management and used **confluence** for documentation.

**ENVIRONMENT:** Java/J2ee, AWS Services, Jenkins, Maven, Microservices, Docker, Bitbucket, Groovy, GIT, Splunk, Apache Tomcat Server, Jira, Bash, Docker, Linux, Shell Scripts, uDeploy, Agile, Confluence.

**Client: Vistra Energy**

**Location: Irving, TX Aug'2017 to present**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Implemented AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.** Participated in the installation of multi-node Oracle databases on Linux OS and configured RDS.
* Experienced with cloud/virtualization services to design infrastructure as a service **(IaaS)** and platform as a service capabilities **(PaaS).**
* Worked on using a **GIT** branching strategy that included develops branches, feature branches, staging branches and master. Pull requests and code reviews were performed.
* Created an end to end Jenkins pipeline to absorb code from Stash (GitHub), to resolve dependencies from **Artifactory** and deploy using U Deploy.
* Designed and developed web applications using **ASP.NET, Java** and deployed the applications to GIT for version controlling.
* Configured and maintained Jenkins to implement the **CI** process and integrated the tool with **Git, Jenkins, Maven**, **SonarQ3ube, JFrog** to schedule the builds.
* Scripted internal automation via various scripting languages like **PowerShell, Bash and Python.**
* Deployed the **Java based** applications into web application servers like **Apache Tomcat**.
* Able to create scripts for system administration and **AWS** using languages such as **BASH** and **Python**.
* Implemented Micro-services using **Private Cloud foundry** platform build upon Spring Boot Services and created workflows on Jenkins for setting up automated pipelines for **CI/CD** with **PCF**.
* Integrated **XL Deploy** with **Jenkins** using plugins and automated continuous deployment of the applications.
* Handling, deploying, maintaining various servers, including application, Database, Web, Mail and Virtual.
* Experience in creating cloud migration strategies defining delivery architecture, creating the migration plans, designing the orchestration plans and more.
* Maintain and track inventory using **uDeploy** and set alerts when the servers are full and need attention and managed build results in **uDeploy** and deployed using workflows in **uDeploy** and Delivered specific versions of various components of an application into target environments using **uDeploy**.
* Worked on Configuration management tool **Chef** for continuous delivery (CD) written recipes for new environments. Used to write an install script in **Ruby** using all of the extra helper functions from **Chef.**
* Implemented **Chef**, including the internal best practices, cookbooks, automated cookbook **CI** and **CD** system. Also, Implemented Automated Application Deployment using **chef**.
* Maintained and managed **Ansible playbooks** responsible for **deploying Framework** and other cloud tools.
* Installing, configuring and administering **Jenkins CI** tool on Linux machines.
* Debugging test cases and fixing errors by using **selenium** plugins in Jenkins
* Continuous deliver (CD) with Jenkins and **Kubernetes**, running a continuous deployment pipeline with Jenkins and Jenkins Workflow on **Kubernetes.**
* Involved in provisioning and automation servers on public cloud like **AWS** and **Kubernetes.**
* Worked on **Nexus** repository to maintain artifacts and used as a local repository. Also, maintained **Nexus** administration tasks.
* Implementing a **Continuous Integration/Continuous Delivery (CI/CD)** framework using **Jenkins, Chef,Maven & Nexus** in Linux environment.
* Worked on setting **Docker** container and maintaining **Docker images** and worked on Testing CI/CD tools on Docker
* Used Jenkins to create CI/CD pipeline for **Artifactory** using the plugin provided by **JFrog.**
* Implementation and management of a scalable build infrastructure using Subversion, Git, GitHub, **Jenkins, SonarQube,** Virtualization and Artifactory.
* Worked together with developer's using **JIRA** to fine-tune process and speed up the delivery process efficiently and also Responsible for working a queue of **JIRA** tickets to address system issues, user requests, etc. on a daily basis and managed product backlog within **JIRA**
* Provided 24/7 on call support on **Linux** Production Servers. Responsible for maintaining security on **Red hat Linux**.
* Managed **Ubuntu, Linux** and **Windows** virtual servers with **Chef.**Monitored the health of the application using **Nagios.**
* Managed iterative product delivery on time and on budget with **AGILE/SCRUM** framework.
* Worked on applying patches and recommending necessary security fixes for web Logic servers.
* Provided periodic feedback of status and scheduling issues to the management.

**Environment:** GIT, Java/J2EE, Docker, Kubernetes, Nexus, Jenkins, SonarQube, AWS, PCF, Chef, Ansible, MAVEN, JIRA, LINUX, XML, ClearCase, Ruby, Web logic, Python, PowerShell, C#, .NET, ASP.NET

**Client: Grant Thornton**

**Location: Pittsburgh, PA Feb'2016 to Jul'2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked with the Architects on SDLC process being the owner of post development environments.
* Administered and maintained source code configuration tool **GIT** used for different projects.
* Good understanding of the SDLC Processes, Project roles and **SCM** plans, familiar with Agile/SCRUM, ISO standards and applying CMM levels to organizations.
* Designing and creating **SCM Infrastructure** from scratch - **GIT** and **Jenkins** integrated with Active Directory/LDAP, and orchestrating **SCM** deployments and host builds to serve every part of the company.
* Designing and creating SCM Infrastructure from scratch - Subversion and Hudson integrated with Active Directory/LDAP, and orchestrating SCCM deployments and host builds to serve every part of the company.
* Supporting complex **Atlassian environments** and have experience with integrating **Atlassian Tools** with other internal and external systems.
* Managed the Maven Repository using **Nexus** tool and used the same to share the snapshots and releases of internal projects.
* Implemented multi-tier application provisioning in **OpenStack cloud**, integrating it with **Puppet.**
* Worked with messaging service across a variety of technologies such as **RabbitMQ.**
* Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage **Java** applications across **Linux** servers.
* Used **AppDynamics** for proactive monitoring of infrastructure to see if metric is abnormal.
* Provided Rapid-provisioning and configuration management for CentOS using Kickstart and Puppet.
* Configuring the Jenkins System such as adding the **JDK** installation, **Gradle** installation in Manage Jenkins.
* Internal IT support including software installation, troubleshooting issues, local development environment set up and training on new technologies (such as **Git** and **Vagrant**) and procedures.
* Installed and configured foreman with puppet automation for auto-provisioning the Linux machines in Open Stack and VMware environments.
* Installed/Configured/Managed Puppet Master/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge. Up gradation or Migration of Puppet Community and Enterprise.
* Experience with creating various database objects such as tables, indexes, triggers, database links, and procedures in Oracle DB.
* Implemented **OpenStack** vendor distributions from **Red Hat** and **Ubuntu**
* Wrote **MAVEN Scripts** to automate the build process.
* Used **Shell** and **Ruby** to automate the deployment process.
* Designed a customized Status Reporting tool used currently, based on the specific requirements using J2EE/Struts and **WebSphere Application Server** with Oracle as Database.
* Created **JIRA projects, templates, workflows, screens, fields** and other administrative activities.
* Coordinated all the IT projects successfully by resolving release interdependencies

**Environment**: GIT, Nexus, Java, Jenkins, MAVEN, Puppet, VMware, OpenStack, UNIX, Python, Ruby, Oracle, Web Sphere, Jira.

**Client: Sony**

**Location: Los Angeles, CA Mar'2014 to Oct'2015**

**Role: Build & Release Engineer**

**Responsibilities:**

* Performed merging from development to parent branches in GIT prior to building the code.
* Configured **Confluence** license, database configuration, attachment storage configuration.
* Installed and configured **GIT** server on **Linux** via the **Apache** Web Server to provide access over the Http protocol.
* Responsible for automated Scheduled Builds/Emergency Builds and Release using **ANT scripts** for Enterprise application **(J2EE).**
* Wrote **Shell** scripts to automate GIT branching, merging, tagging and various other version control tasks.
* Used ANT as a build tool on Java projects for the development of build artefacts on the source code.
* Provided recommendations and helped set up the CM process to the company’s one of the development teams on using **Git and GitHub** repositories.
* Experienced in deploying and support applications on **Weblogic application servers**
* Created and maintained POM files for building the projects and developing the build scripts.
* Facilitate the Continuous 'Build Manager's Role for all Software Development projects.
* Created and configured dynamic/snapshot Clear Case views as per the requirements and writing configuration-spec for views to work with branches and labels.
* Installed **Jenkins** on a **Linux** machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Integrated **GIT** and **ANT with Jenkins** to implement the continuous integration (CI) process.
* Created **Ant, Python& UNIX scripts** for build activities in QA, Staging and Production environments.

**Environment:** Java/J2EE, ANT, Python, GIT, Jenkins, Tomcat, WebLogic, Python, Bash Scripts, Ruby, Confluence.

**Education**

**Bundelkhand University, India -** *Bachelors in CSE*| Final GPA: 3.3 out of 4.0

**New England College, NH -** *Masters in CIS* | Final GPA: 3.7 out of 4.0