**VENKATESH GALI**

**AWS DevOps Engineer**

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**PROFESSIONAL SUMMARY**

* Around **6** years of IT experience as a **Build and Release/AWS DevOps Engineer** in automating, building, deploying, and releasing of code from one environment to another environment.
* In-depth understanding of the principles and best practices of **Software Configuration Management** (SCM) in **Agile**, **SCRUM**, Waterfall methodologies.
* Amazon certification “validation number WHTRFKMC12B1QRKY, validate at

<http://aws.amazon.com/verification>"

* 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, AWS CLI, CloudWatch, Lambda, CloudTrail, DynamoDB, SNS)**.
* Experienced in scaling Amazon **RDS, MySQL, MongoDB, DynamoDB** instances vertically and horizontally for high availability.
* Experience in routing production traffic for high availability multi-site using **Route 53** using **failover** and **weighted** Routing policies.
* Managed user access to **AWS** resources through AWS CLI, AWS Console or AWS SDK using AWS **IAM** services.
* Experience in using **AWS Redshift** database for staging and Enterprise Data Warehouse.
* 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 added Build Badges Status report.
* Used **Puppet, Chef and Ansible** for Configuration Management and also understanding of container technologies like **Docker.**
* 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**.
* 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** and Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing **PowerShell, Bash**.
* Proficient in Front end development experience using **C, C++, .NET, ASP.NET, HTML, CSS, JSON, JavaScript, Node.JS and REST.**
* 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**.
* 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 Sep'2018 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.
* Creating mappings and workflows to extract data from **Oracle, SQL Server, Redshift** and Flat File sources and load into various Business Entities.
* 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 (BitBucket), to resolve dependencies from **Artifactory** and deploy using U Deploy.
* Designed and developed web applications using **Java** and deployed the applications to GIT for version controlling.
* Configured and maintained Jenkins to implement the **CI** process and integrated the tool with **BitBucket, Jenkins, Maven**, **SonarQube, JFrog** to schedule the builds.
* Able to create scripts for system administration and AWS using languages such as **BASH** and **Python**
* Design roles and groups for users and resource tags using AWS Identity and Access Management (IAM)
* Implementing a **Continuous Integration/Continuous Delivery (CI/CD)** framework using **Jenkins, Chef, Maven & Nexus** in Linux environment.
* 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.
* Updating kernel & security patches in **Amazon Linux environment**, handling out of memory issues in Linux kernels during rebalance in **Kafka cluster**.
* Scripted internal automation via various scripting languages like **PowerShell, Bash and Python.**
* Deployed the **C, C++** based applications into web application servers like **Apache Tomcat**.
* Implemented automated local server provisioning in instances created in **Terraform**.
* Worked with **Terraform** key features such as infrastructure as code, Execution plans, Resource Graphs, change Automation.
* Creating EC2 instances in secured private subnet and deploying them in **load balancing**, assigning Elastic IP Addresses for **EC2 instances**.
* Managed AWS EC2 instances utilizing **Auto Scaling, Elastic Load Balancing** and Glacier for our QA and UAT environments as well as infrastructure servers for **BitBucket** and Ansible.
* Wrote **Ansible Playbooks** with Python SSH as the Wrapper to Manage Configuration of AWS nodes and tested playbooks on AWS instances using **Python**.
* Responsible for automated Deployment of java application in **Tomcat Server** using **Ansible Scripts**.
* Used **Ansible Playbooks** to setup Continuous Delivery Pipeline. Deployed micro services, including provisioning **AWS environments** using Ansible Playbooks.
* Managed **Ansible** Playbooks with Ansible roles. Used file module in Ansible playbook to copy and remove files on remote systems
* Wrote **PowerShell scripts** for automating time-consuming specialty needs for external clients.
* 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.
* Worked on setting **Docker** container and maintaining **Docker images** and worked on Testing CI/CD tools on Docker.
* Worked together with developer's using **JIRA** to fine-tune process and speed up the delivery process efficiently and Responsible for working a queue of **JIRA** tickets to address system issues, user requests, etc. daily and managed product backlog within **JIRA**
* Provided 24/7 on call support on **Linux** Production Servers. Responsible for maintaining security on **Red hat Linux**.
* 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:** BitBucket, Java/J2EE, Docker, Kubernetes, Nexus, Jenkins, SonarQube, AWS, Kafka, Ansible, MAVEN, JIRA, LINUX, XML, Terraform, Ruby, Web logic, Python, PowerShell, C, C++, .NET, ASP.NET

**Client: Vistra Energy**

**Location: Irving, TX Aug'2017 to Jul'2018**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Responsible for Setup and build AWS infrastructure various resources, **VPC EC2, S3, IAM, EBS**, **Security Group, Auto Scaling,** and in **Cloud Formation**. Built **S3 buckets** and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on **AWS**.
* Creating 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.
* Involved in writing Java API for **Amazon Lambda** to manage some of the **AWS services**.
* Designed Java API to connect the **Amazon S3 service** to store and retrieve the media files.
* Responsible for **Continuous Integration** and **Continuous Delivery** (CI/CD pipeline) process implementation-using Jenkins along with **Python** and **Shell scripts** to **automate** routine jobs.
* Configure, monitor and automate Amazon Web Services as well as involved in deploying the content cloud platform on Amazon Web Services using **EC2, S3** and **EBS**.
* Designed and Deployed a multi-tier application utilizing almost all the main services of the AWS stack (like **EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route 53, Lambda and Cloud Formation**) focused on high - availability, fault tolerance environment.
* Created Cloud Formation Template for main services like **EC2, VPC** and **S3** for reusing the current environment.
* Migrated the current Linux environment to **AWS/RHEL** Linux environment and used auto scaling feature and Involved in Remediation and patching of Unix/Linux Servers.
* Designed high availability environment for Application servers and database servers on **EC2** by using **ELB** and **Auto-scaling**.
* Monitored AWS cloud resources and the applications that deployed on AWS by creating new alarm, enable notification service using **Cloud Watch**.
* Used **AWS Cloud Formation Templates** to simplify provisioning and management on AWS Services as a stack.
* 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 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**.
* Written **Chef Cookbooks** for various **DB configurations** to modularize and optimize end product    
  configuration.
* Automating infrastructure in AWS with **Chef, Ruby,** and maternal unit, Created EC2 Instances and VPC network and assigned Roles and permissions via IAM key management.
* Worked on creating of custom **Docker images**, tagging and pushing the Images to ECR and Configured ECS using Cloud Formation to auto-scale, load balance and manage **Docker container**.
* Worked on **Docker** hub, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* **Monitored** the servers & applications using **Nagios**, and **Splunk**.
* Planned release schedules with agile methodology & coordinated releases with engineering & SQA for timely delivery.

**Environment**: AWS services (EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route 53, Lambda and Cloud Formation), GIT, Java, Jenkins, Ansible, Docker, Nagios, Splunk, Jira.

**Client: Grant Thornton**

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

**Role: Build & Release 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**. Java Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge. Up gradation or Migration of **Puppet** Community and Enterprise.
* Integrated Build dependencies and dependency blocking strategy in **Bamboo**.
* 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, Bamboo, MAVEN, Puppet, VMware, OpenStack, UNIX, Python, Ruby, Oracle, Web Sphere, Jira.

**Client: Barclays June'2014 to Oct'2015**

**Location: Wilmington, DE**

**Role: Linux System Admin**

**Responsibilities:**

* Responsible for solving any technical problems related system support
* Worked with various teams to ensure system configuration follow corporate policies and control standards.
* Experience in working with the windows server platform and Unix/Linux platform.
* Ability to use network analysis and managed tools.
* Managing Active Directory Services and configuring user profiles.
* Installation of Windows servers and configuration, implementation and maintenance.
* Creating new file system, managing & checking data consistency of the file system.
* Back up management for client’s machine on weekly basis on hard drives.
* Experience in TCP/IP configuration, creating subnet scope in Domain Controller and IP reservation.
* Experience in installing, configuring, supporting and troubleshooting Unix/Linux Networking services and protocols like LDAP, DNS, NFS, DHCP, FTP, SSH and Volume Management.
* Worked and configured the networking and server utilities.
* Configure CPU, memory, and disk partitions as required.
* Assisted in physical installation of assets, including racking, cable connecting and testing.
* Working knowledge of IT standards, concepts, best practices and procedures relies on knowledge, experience and judgement to plan and accomplish goals.
* Experienced in networking with LAN, WAN, Routers, Gateways etc.
* Managed patches configuration, version control, service pack and reviews connectivity issues regarding security problems
* Involved in debugging the applications monitored on JIRA using agile methodology.
* Involved in Agile Methodologies and SCRUM Process.
* Worked on JIRA for tracking and updating the JIRA tickets.

**Environment:** Red Hat Linux (RHEL 5/6), Centos, Networks, Configuration, IP, TCP, DNS, NFS, Global File System.

**Education**

**Bundelkhand University, India -** *Bachelors in CSE (2013)* | Final GPA: 3.3 out of 4.0

**New England College, NH -** *Masters in CIS (2017)* | Final GPA: 3.7 out of 4.0