**Dheeraj Reddy | Senior DevOps Engineer**

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**AWS Certified Solution Architect**

**References/ GitHub provided on request**

**Profile**

* 7+ years of experience in DevOps, Configuration Management and Build and Release.
* Good experience with principles and best practices of Software Configuration Management (SCM) in Agile, Scrum, and Waterfall methodologies.
* Strong experience with **AWS** Cloud platform and its features which includes **EC2, VPC, EBS, AMI**, SNS, RDS, EBS, Cloud Watch In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
* Strong Experience with Application Deployments & Environment configuration using **Chef**.
* Experienced in **Cloud automation** using **AWS** Cloud Formation templates.
* Experience with migration to Amazon web Services **AWS.**
* Strong experience in Implementing new projects builds framework using **Jenkins** & **maven** as build framework Tools.
* Worked on multiple deployment strategies using **Continuous Integration (CI)** and **Continuous Development (CD)** Pipelines and configuration management tools with remote execution to ensure zero downtime and shortened deployment cycles via automated deployments.
* Creating **Docker containers and Docker consoles** for managing the application life cycle.
* Evaluated **Mesos and Kubernetes** for Docker Orchestration.
* Environment provisioning solutions using **Docker, Vagrant.**
* Experience in using Version Control Tools VSS, Sub-Version, **GIT**, perforce.
* Strong experience in working in **Linux** and **Windows** environments.
* Experienced with **Tomcat, Apache**, Nginx, Sensu, Logstash.
* Involved in writing **Ruby**, python and shell scripts for compilation and deployment process.
* Experienced in build tools such as **Maven,** ANT, Atlassian **Bamboo**.

Good Interpersonal Skills, team-working attitude, takes initiatives and very proactive in solving problems and providing best solutions.

**EDUCATION and CERTIFICATIONS:**

* Bachelors in Technology with Major in Computer Engineering from JNTU, India.

**EXPERIENCE/ PROJECT WORK**

**J.M Family Enterprises, Deerfield Beach, FL December 2016 - Present**

**J.M Family Enterprises** is a diversified automotive company whose subsidiaries include Southeast Toyota Distributors, the nation’s largest franchised distributor of Toyota Vehicles.

**Role: Senior DevOps Consultant – Chef Developer**

**Responsibilities:**

* Rapid-Provisioning and **Configuration Management** for Linux, Windows using **Chef** and **Cloud Formation Templates** on **Amazon Web Services.**
* Developed cookbooks to spin up our **Dev, Test, Stage** environments.
* Worked on **Chef Delivery** for Continuous Delivery. Introduced **HashiCorp Vault** for secure secret storage.
* Developed Multiple cookbooks from scratch. Developed cookbooks to configure **Biztalk, SQL, IIS, Custom NetSuite Applications.** Used **Kitchen** as a platform to test the cookbooks. Used **Food Critic** and **Rubocop** as linting tools.
* Implemented **Chef-best practices** and introduced **Berkshelf** and **Test Kitchen** to facilitate a more natural cookbook development work-flow.
* Automated AWS components **like EC2 instances, Security Groups, S3, ELB, RDS, IAM through Cloud Formation templates.**
* Introduced **load-based Autoscaling** to increase capacity at peak times and reduce the costs at off-peaks times.
* Worked on **Docker** to create Containers for the application using Gradle.
* Virtualized the servers using **Docker** for the test environments and dev-environment needs. And also, configuration automation for **Docker containers.**
* Used **Kubernetes** to deploy scale, load balance and manage Docker containers with multiple name spaced versions.
* Evaluated **Apache Mesos** and **Kubernetes** for Docker Container Orchestration.
* Worked with **TeamCity** to create CI/CD process. Created TeamCity Builds for BizTalk projects using Build runners to generate MSI applications.
* Used **Artifactory** to deploy the build Artifacts from TeamCity builds.
* Administered **TeamCity, setup master/slave** and assigning different users permissions.
* Develop **Ruby, PowerShell, shell scripts** to automate tasks and the build process.
* Use **GITLAB** as a Version Control with GIT branching strategy that included develop branches, feature branches, staging branches and master. Pull requests and code reviews were performed.
* Working with Linux/Windows based environments.

**Environment:** Chef, Chef Solo, Vagrant, Ruby, PowerShell/Shell Scripting, AWS Cloud Formation Templates, AWS IAM, AWS S3, EC2, Docker, Kubernetes, TeamCity, Artifactory, MSBuild, Maven, BizTalk, IIS, GITLAB, Ubuntu, CentOS, Windows Server 2012 R2.

**Pearson VUE, Bloomington, MN July 2016 – December 2016**

**Pearson VUE** is a global leader in computer-based testing and provides services for information technology, academic, government and professional testing programs around the world.

**Role: Senior DevOps Consultant**

**Responsibilities:**

* Designed and Provisioned **AWS** infrastructure using **Cloud Formation**
* Designed and developed automated deployment and scaling processes based on **Vagrant and Chef** for a wide range of server types and application tiers.
* Managed Servers on the Amazon Web Services (AWS) platform instances using **Chef Configuration Management**.
* Created Cloud Formation template to build a repeatable process to stand up various application deployment environments in AWS.
* Configured Auto Scaling, Route 53, and Custom Cloud Watch metrics for various J2EE and .net applications.
* Developed automation and deployment utilities using Ruby, Bash and PowerShell
* Developed PowerShell, Bash scripts for automated deployment of set of inbuilt tools to AWS instances, with required configurations and settings to meet the business requirements.
* The automation involved heterogeneous set of machines (cloud/physical) and components, with tools like Chocolatey, Team City, AWS, and Perforce.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-Server, Managed On-site OS/Applications/Services/Packages using Chef as well as AWS for EC2, S3 & ELB with Chef Cookbooks.
* Converting production support scripts to Chef Recipes. And AWS server provisioning using Chef Recipes.
* Setup continuous integration and formal builds using **Jenkins** with **Maven** **and Tomcat repository.**

**Environment:** AWS ELB, AWS Cloud Formation Templates, AWS IAM, AWS S3, AWS Cloud Watch, Jenkins, Maven, Chef, Ruby, Bash, Shell, PowerShell, GIT, BitBucket, Perforce, Ubuntu, CentOS, Windows, Apache, Tomcat, JIRA

**BCBS, Chicago, IL June 2015 – July 2016**

Blue Cross Blue Shield is a healthcare insurance provider which has nearly three million members who have access to the high-quality, affordable health care they expect and deserve.

**Role: Senior DevOps Engineer**

**Responsibilities:**

* Working for DevOps Platform team responsible for specialization areas related to **Chef** for **AWS** Cloud Automation.
* Actively involved in architecture of DevOps platform and cloud solutions.
* Build Automation and Build Pipe Development using **Jenkins** and **Maven.**
* Integration of Automated Build with Deployment Pipeline. Currently installed **Chef** Server and clients to pick up the Build from Jenkins repository and deploy in target environments (Integration, QA, and Production).
* Implemented **Vagrant**, a production like virtual development environment for developers.
* Implemented scheduled downtime for non-prod servers for optimizing **AWS** pricing.
* Created proper documentation for new server setups and existing servers.
* Maintaining a farm of AWS **EC2** instances, ELB’s and RDS.
* Wrote shell scripts to automate daily tasks like DNS entries to Route53, checking connectivity etc.
* Implemented Chef Recipes for Deployment on build on internal Data Centre Servers. Also re-used and modified 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.
* Debugging Chef Recipes and their execution trying to pull logs into Splunk and monitor deployments.
* Integrating various provisioning and monitoring modules into a single platform.

**Environment:** Chef, Ruby Maven, Artifactory, GIT, Ubuntu, CentOS, Linux, AWS ELB, AWS SQS, AWS S3, AWS Cloud Formation Templates, AWS RDS, AWS Cloud Watch, Ruby, Chef, GIT, Spring, jQuery, Tomcat, Apache, Oracle 11g, Jenkins.

**American Express, Phoenix, AZ Jul 2013– May 2015**

American Express provides innovative payment, travel and expense management solutions for individuals and businesses of all sizes.

**Role: Senior DevOps Engineer**

**Responsibilities:**

* Designed the Infrastructure, and implemented on **AWS** cloud.
* Setup AWS VPC’s for dev, staging and Prod environments.
* Manage, configure and maintain Ec2 instances, ELB, RDS, ElasticCache, SNS etc.
* Automated server/database backups using (snapshots/AMI images).
* Vulnerability Assessment & Penetration Testing on the infrastructure on AWS for security.
* Setup **Jenkins** Build server and maintenance.
* Analyzed and designed their requirement to categorized and modularized Cookbooks to make them efficient and reusable for future needs.
* Implemented **Chef** Cookbooks for OS component configuration to keep AWS server’s template minimal.
* Written Chef Cookbooks for various DB configurations to modularize and optimize end product configuration.
* Evaluating testing of Chef Recipes using Chef-Spec, Food Critic and Test-kitchen.
* Apace-tomcat Web Server Configuration and Management.
* Setup **Zabbix** as an infrastructure monitoring tool.
* Version Control Using SVN, branching and merging repositories.
* Managing Build Process using Jenkins Server.
* Implemented a Continuous Integration process using shell scripts.
* Manage Releases, including coordinating with the Dev team and QA team.
* Migrated Servers from East-Zone to West-Zone.

**Environment:** Tomcat, Apache, Oracle 11g, Jenkins, Python, Ruby Chef, JIRA, Maven, Artifactory, GIT, Ubuntu, CentOS, Windows, **AWS**, Ruby, **Chef**, Windows.

**Sapient Nitro, Gurgaon, India June 2009 – May 2013**

**Role: Release/ Build Engineer**

**Responsibilities:**

* Setting up Jenkins master, adding the necessary plugins and adding more slaves to support scalability and agility.
* Planning and setting up of Continuous Integration for various properties on Jenkins with Commit, Component, Assembly, Deploy and Smoke jobs.
* Overhauling the source code in SVN, adding static code analysis tests like coverity, findbugs, pmd etc. and configuring unit tests to run as part of builds.
* Setting up commit builds to check for compilation failures of checked-in source code by the developers to accelerate CI.
* Setting up of component builds which compile and package the components into OS specific .tgz.
* Assembly, deploy jobs to list the exact configuration of packages with all their dependencies, settings and deploying them to various environments for running tests.
* Working with the development team to increase the unit test code coverage.
* Establish CI / CD for trunk and branches to support parallel development.
* Planning the releasing activities and delivering them on schedule.
* Managing nightly builds, weekly builds, feature addition builds and Sales Candidates.
* Integrating the latest available changes / components to the product software.
* Baselining the software contents.
* Creating software packages for factories.
* Creation of packages for updates through Internet (e.g., FOTA, FOTI).
* Automation of day-to-day, repetitive tasks.
* Involved in driving the iBuild tool usage.

**Environment:** JAVA, C, C++, CSS3, HTML 5, XML, JavaScript, J-Query, and PHP., JavaScript Apache Tomcat, Web Sphere Application Server, Oracle 10g and 11g.