**M Goutham Reddy**

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**PROFESSIONAL SUMMARY:**

* Successful DevOps/Puppet Engineer with over 7+ years of Professional Experience dedicated to automation and optimization. Understands and manages the space between operations and development to quickly deliver code to customers. Has experience with the Cloud, as well as DevOps automation development for Linux and Windows systems. Seeking a position in DevOps to contribute my technical knowledge.
* Experienced with Linux Administration, Configuration Management, Build and Release Management in all phases of software development life cycle (SDLC) process including Analysis, Design, Development, Implementation, Integration, Testing, Production, and Maintenance in Enterprise Applications.
* Created PaaS for both cloud and on-prem deployment/delivery models for solutions with common infrastructure, tooling and DevOps built on Docker, Kubernetes/Mesos, Stratos/Marathon, VAMP
* Highly experienced in Implementing Configuration Management tools like **Puppet** and **Ansible**.
* Experience in **Linux Administration** (Installation**, Configuration, Tuning and Upgrades of Linux** (RedHat and Centos).
* Responsible for evaluation and deployment of automated .Net deployment tool **Octopus Deploy.**
* Experience in Virtualization tools like **VMWare** and Virtual box.
* Used **Kubernetes** to **deploy scale**, **load balance**, **scale and manage Docker** containers with multiple **namespaced**.
* Experience with **OpenStack**Services such as Compute, Network, Storage, Dashboard, Image, Identity, Monitoring and Orchestration Service.
* Experience in setting up Local **Chocolatey Nuget** Server for Windows and **Pulp** Server for Linux Systems.
* Extensive experience in using Build Automation, Deployment tools and **Continuous Integration** concepts by using tools like **ANT, Maven, MS Build, Jenkins, TeamCity,Hudson.**
* Implemented **Team Foundation Server (TFS), Subversion, Git, GitHub, GitLab, BitBucket** as Version Control tools.
* Experience in using **Docker** and setting up **ELK** with Docker and **Docker-Compose**.
* Extensive experience in using **Hashicorp** tools like **Vagrant** and **Packer**.
* Experience in writing Ruby scripts to automate deployments.
* Experience in working closely with developers, QA teams, Product owners and other stakeholders to deploy efficiently on various environments.
* Coordinated different teams across the globe to deploy different builds to different environments on parallel development for multiple projects.
* Extensive experience in setting up baselines, branching, merging, and automation processes using shell and batch scripts.
* Deployed Source code (Java, .Net) onto **WebSphere**, **WebLogic** and **IIS** servers.
* Good knowledge on ITIL Process and have worked on coordinating releases across the projects.
* Good Interpersonal Skills, team-working attitude, takes initiatives and very proactive in solving problems and providing best solutions.
* Versatile **team player** with excellent analytical, presentation and interpersonal skills with an aptitude to **learn new technologies**.

**TECHNICAL SKILLS**

**Programming Skills:** Ruby, Shell Scripting, Batch, PowerShell, Python

**Operating systems:** Windows XP/2008/2008 R2/Vista/7/2012/2012R2, LINUX

**Configuration Management Tools:** Puppet and Chef

**Continuous Integration Tools:** Jenkins, TeamCity, Hudson and Bamboo

**Bug Tracking Tools:** Jira, CA Service Desk Manager and BMC IT Service Management

**Tools & Utilities:**AWS, Agile, Docker, Docker-Compose, Docker Swarm, Vagrant, Packer, Node.js, Sterling OMS, Confluence, ANT, Maven, MS Build, SQL plus, ServiceNow, TOAD, SQL developer, Microsoft Visual Studio 2005/2008/2010/2012/2013, Autosys.

**Version Control Tools:**Git, Github,GitLab, BitBucket, TFS, Subversion

**PROFESSIONAL EXPERIENCE:**

**CareFirst, Baltimore, MD Jan’17-till date**

**Role: Devops Engineer**

**Responsibilities:**

* Implemented several Continuous Delivery Pipelines for different products using Puppet & Jenkins.
* Administered Jenkins continuous integration server installation and configuration to automate application packaging and deployments. Maintained over 50+ jobs in Jenkins from 8 different Application teams for over 45 releases in parallel.
* Working with puppet as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage changes.
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository.
* Applied OS patching, fixing bugs, by writing shell scripts, create puppet manifest and apply it
* Responsible for automating and improving infrastructure, using Puppet for configuration
* Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS) & configuration management using puppet.
* Used Puppet to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages.
* Configured S3 versioning and lifecycle policies to store data and thereby archiving files through Glacier. Leveraged AWS S3 service as Build Artifact repository and created release based buckets to store various modules/branch based artifact storage.
* I dealt with various merging conflicts and pushes appropriate code into GitHub repository.
* Designed & developed workflows to automate Migration, Postgres SQL Database Patching, Cloning & Rollback using Python.
* Developed the codebase that became the Apache Commons flat file (sandbox) component.
* Install, configure and administer **Splunk** Enterprise Server 6.x.x and Splunk Forwarder6.x.x on Redhat Linux.
* Designing and implementing Splunk-based best practice solutions.
* Requirement gathering and analysis. Interacted with team members and users during the design and development of the applications and Splunk Objects.
* Helped developers analyze slow query logs and refactor existing database structure for improved performance.

**Environment:**Puppet,Github, AWS, Docker,Jenkins, Agile, Windows Server 2008/2008R2/2012/2012R2, Centos, Maven, Apache, Splunk, Tomcat, Python.

**Vertex Inc, Berwyn, PAJun’16-Dec’16**

**Role: DevOps Engineer**

**Responsibilities:**

* Managed **Puppet Enterprise 2016.2** Upgrade project and developed modules using Puppet best practices.
* Automated **Vertex Enterprise** application installation and configuration on Redhat 6.x/7.x servers using Puppet.
* Improved the build and deployment time of a Vertex Enterprise by 90% by automating it.
* Developed modules to automate installation and configuration of **Oracle database** on Redhat servers.
* Implemented **ProGet** as internal chocolatey nuget server to automate windows installations.
* Created chocolatey packages for various windows installers and pushed them to ProGet server.
* Automated **SqlServer 2012/2014** Installations on Windows 2012R2 servers by developing Puppet modules.
* Integrated **hiera-eyaml** with Puppet Enteprise to manage sensitive data in Hiera files.
* Developed Puppet module to automate the **Oracle Patch deployment** on Redhat/Centos servers.
* Created Puppet module for installation of **Cognos**and Cognos hotfixes on Redhat servers.
* Administered and supported **GitLab** version control tool.
* Implemented **CodeManager** to automate the deployment of different environments from puppet-control repo.
* Designed roles and profiles to simplify the deployment of Puppet code.
* Deployed Apache/Tomcat applications using Puppet.
* Developed modules to automate installation and configuration of Wildfly, Oracle Jdk.
* Automated Installation and configuration of MySql using Puppet.
* Managed users and groups on Linux servers using pe\_accounts module.
* experience in building j2ee applications using Maven.
* Automated deployment of j2ee applications using jenkins and shell scripts.
* Setup load balancers and configured shards with clustering in database (MongoDB) which increased the performance of the backend node server to more than 50%
* Design roles and groups using AWS Identity and Access Management (IAM).
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Extensively Implemented ServiceNow process of implementation for Incident Management, Problem Management, Change Management, Asset Management, Service Request Management (Service-Catalog).
* Working as a Developer to incorporate the requirements in the ServiceNow tool in an optimal way.
* Preparing Implementation Plan for every release in ServiceNow and provide Walkthrough to the entire team to execute the steps.
* Expertise in **OpenStack** services such as Horizon, Keystone, Nova, Neutron, Glance, Cinder, Ceilometer and Swift.
* Integrated OpenStack (Ice house) with OpenStack to create software-Defined-Networking tenant and service provider network and routers.
* Experience in deploying OpenStack components on Multi Node Environment.
* Incorporated Docker and Kubernetes for Continuous Integration
* Created jobs on Jenkins to automate installation of Puppet agents on Linux and Windows servers.

**Environment**: Git, Gitlab, Jenkins, Puppet Enterprise, AWS, Windows 2012R2, Linux, Redhat 7.x/6.x, Centos 7.x/6.x, Oracle, MySql, SqlServer,MongoDB, Kuberenetes, Docker, ServiceNow, Shell Scripting, PowerShell.

**Hewlett Packard, Herndon, VA April’14 – May’16**

**Role: Devops Engineer/Puppet Developer**

**Responsibilities:**

* Managed **Puppet Enterprise 2015.3** Upgrade Project using new Puppet 4.x syntax and improvements to the Puppet Development Workflow that supports Unit Testing and Acceptance Testing for individual Puppet Modules. New Development workflow uses different open source tools like *ServerSpec*, *Rspec*, *Vagrant* and *Packer*in order to validate changes across different puppet modules.
* Administered and supported **GitHubEnterprise**version control tool.
* Administered Puppet Enterprise to provision multi-platform virtual machine configurations across server infrastructure. Infrastructure consists on multiple-platform environment servers dedicated for building, deploying as well as for development, test and production systems.
* Improved the Configuration Management Infrastructure using distributed Team City Agents, Git. The new infrastructure has reduced the build and deployment times by 80% since every build is running on a specific virtual machine. Every Team City agent virtual machine can be reproduced using Puppet deployments.
* Automated deployment of .Net/Nodejsprojects using **TeamCity** and **Octopus Deploy**.
* Responsible for migrating more than 30 projects to Octopus Deploy using TeamCity.
* Reduced deployment times by 90% by splitting a big project into multiple projects on **Octopus Deploy**.
* Involved in designing and deploying multiple applications utilizing almost all of the Amazon Web Services (AWS) stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud formation.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, auto scaling to design cost effective, fault tolerant and highly available systems.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Developing CloudFormation scripts to automate EC2 instances.
* Developed automated provisioning and deployment system using Puppet custom modules and manifests.
* Implemented dynamic and continuous environment for Puppet Enterprise using **Puppetlabs-r10k** and later using**CodeManager.**
* Administration of DevOps tools suite: **Puppet Enterprise, OpenStack, Teamcity, GitHub, JIRA, Confluence, Rundeck, Puppet, Octopus Deploy and ELK stack.**
* Implemented multi-tier application provisioning in **OpenStack** cloud, integrating it with Puppet.
* Deploying the OpenStack components on multimode with High availability environment.
* Installing, Configuring and testing the OpenStack keystone, glance, cinder, swift, nova and neutron, trove, mistral, designate using FUEL GUI and CLI.
* Deploying the OpenStack components on multimode with High availability environment.
* Manage and troubleshoot the OpenStack Neutron Networking service.
* Knowledge on upgrading OpenStack infrastructure.
* Responsible for performing tasks like Branching, Tagging, and Release Activities on Version Control using Github.
* Promoted Continuous Integration, Continuous Delivery culture collaborating with Development, DBA, QA, Support and Business Operations.
* Experience in automating **nodejs** deployments using teamcity and octopus deploy.
* Experience in setting up in house npm registry using Docker.
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plugins for the JIRA bug/issue tracker.
* Involved in sprints and planned releases with the teams using **JIRA** and **Confluence**.
* Supported and Administered TeamCity continuous integration tool.
* Responsible for company monthly major release deployment.
* Monitoring apps servers using **ELK** – Elasticsearch, Logstash and Kibana for debug and logging.
* Implemented ELK stack using **Docker** and **Docker-Compose**.
* Created **Vagrant** windows and Linux boxes using **Packer**.
* Create**Chocolatey Nuget** packages for simplified distribution of software and modules

**Environment:** Git, GitHub, Node.js, TeamCity, Puppet Enterprise,AWS, Octopus Deploy 2.x/3.x, OpenStack,Agile, Windows Server 2008/2008R2/2012/2012R2/2012R2 Core,Linux, Redhat, Centos, MS Build, Shell, PowerShell, .NET, Batch scripting.

**Kaiser Permenante, Portland, Oregon Feb’13 – March’14**

**Role: Build & Release Engineer.**

**Responsibilities:**

* Installed, Configured and Administered **Team Foundation Server 2010/2012**.
* Created new TFS Groups and Administered Security for Builds, Work Items, Reports and Source Control.
* Standardized branching strategy for Parallel Development and Emergency Bug Fixes.
* Customized Team Foundation builds by adding custom Tasks and Targets.
* Created custom queries to query different work items.
* Installed different Visual Studio plug-in's like TFS Power Tools, Side Kicks, Community Build Manager.
* Customized TFS Work Item templates, configured new state transitions.
* Created Custom Reports for Visual Studio Team Foundation Server (TFS).
* Implemented **Jenkins** as Continuous Integration tool to automate build and deployment process.
* Developed PowerShell and Shell scripts to automate deployment process across Windows and Linux servers.
* Developed, analyzed and maintained tools that support and automated processes for hardware or software product release.
* Used Node.js to run Webpack tasks and build properly the project.
* Created Python and Bash tools to increase efficiency of call center application system.
* Developing Python Framework using Django to perform scan software unit monitoring.
* Design and development of user interfaces and client displays using Java Script, CSS and troubleshoot various issues in Python code and fix them with code enhancements- code used various python libraries such as Jython.
* Extensive experience in development using Spark, Scala and Hive in Hadoop environment.
* Implemented modules into Node JS to integrate with designs and requirements.
* Implemented Initial setup and component migration to Redux.
* Built backend REST API with Node.js, Express.js
* Performed Merging and baseless merging between different branches.
* Created different branches to support parallel development.
* Performed forward and reverse merge between branches and resolved merge conflicts

**Environment:** MS Visual Studio Team System 2010/2013, TFS, Windows Server 2005/2008/2008R2, Jenkins, Python, ANT, Hudson, Maven, Scala, .NET, XML, Node.js, PowerShell, Shell, DOS scripting.

**Idea Bytes, Hyderabad, IndiaJan’10 – Dec’12**

**Linux Administrator**

**Responsibilities:**

* Installation, Configuration & Upgrade of Linux and Windows operating system.
* Installed, configured and maintained Web and Application Servers including Apache, Tomcat and Jboss.
* Creating new file system, managing & checking data consistency of the file system.
* Maintaining the CPU & Memory utilization of Servers reports on the WEB.
* Prepared documentation of understanding, deployment instructions for production releases and updated operation procedures.
* Periodic checks of production and development systems; CPU utilization, memory profiles, disk utilization, network connectivity, system log files, etc.
* Experience in performance monitoring and performance tuning using top, prstat, vmstat, ps, iostat etc.
* Experience in user and group administration, management and archiving.
* Maintenance on systems by timely upgrading Patches to the systems and Scheduling of batch jobs and cron jobs.
* Administered, maintained **Red Hat 5.0**, **6.0** Troubleshooting Hardware, Operating System Application problems and performance issues; Deployed latest patches for, **Linux** and **Application servers**.
* Responsible for administering **Subversion** version control tool.
* Keen participation in maintaining SVN, labeling projects.
* Managing files and directories using subversion and update latest changes.
* Responsible for configuration changes before and after new release.
* Administered and maintained **Hudson** Continuous Integration tool.
* Responsible for code deployment through continuous integration tool Hudson.
* Involved in writing scripts (PowerShell, Shell, Ant, and Maven) to automate build and deploy process.
* Supporting production and development infrastructure, from developing and Improving release automation tools and maintaining issue tracking software
* Monitored trouble ticket queue to attend user and system calls.
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.
* Worked with DBAs on installation of RDBMS database, restoration and log generation.

**Environment:**JBoss, Apache, Red Hat Linux 5.X, 6.X, Oracle 9i/10g, Subversion, Hudson, Windows 2005/2008, IIS, PowerShell, Apache Server, Bash

**EDUCATION:**

**Bachelors in Information Technology, JNTU**, **INDIA.**

**CERTIFICATIONS:**

**AWS Certified Solutions Architect - Associate**