Ramvardhan Reddy

PA

-Email me on Indeed: http://www.indeed.com/r/Ramvardhan-Reddy/26c842c8b311ab45 Overview:

DevOps Engineer with overall 6 Years of Hands-on experience and understanding of DevOps methodology and workflow, Continuous Integration/continuous delivery (CICD) oriented Build & Release of code and solution-based IT services for Linux systems, Containerization, Configure Management, Cloud Services, and System Administration.

Work Experience

**DevOps Engineer**

Dell TX

March 2021 to Present

Responsibilities:

• Extensively working with Kubernernets to orchestrate the deployment, Scaling, and management of Docker Containers.

• Developed and implemented Software Release Management strategies for various applications as per the agile process.

• Setup of Kubernetes services on AWS with Route53 and worked on encrypting TLS certificates. • Work in setting up the CI/CD pipelines using Jenkins, GitHub, GitOps, Helm, and AWS. • Performed AWS Cloud deployments for web applications running on AWS Elastic Beanstalk with monitoring using CloudWatch and VPC to manage network configurations.

• Provided Expertise and hands-on experience on custom connectors using the Kafka core concepts and API.

• Created S3 Buckets in AWS and stored files. Enabled Versioning and security for files stored. Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing, and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Chef.

• Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Puppet, Chef, cloud-hosted solutions, and specific AWS product suite experience • Troubleshoot and resolve issues with VMWare systems hosting Windows and Linux Operating systems. • Worked with a complex environment on Red Hat Linux and Windows Servers while ensuring that these systems adhere to organizational standards and policies.

• Setup of Kubernetes services on AWS with Route53 and worked on encrypting TLS certificates. • Identify, troubleshoot, and resolve issues related to the build and deploy process. • Owning critical infrastructure components or systems, and continuously working to improve them. • Diving deep to resolve problems at their root, looking for failure patterns and driving resolution. • Ensuring stability, reliability, and performance of AWS infrastructure.

• Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).

• Extensively worked with Scheduling, deploying, and managing container replicas onto a node using Kubernetes and experienced in creating Kubernetes clusters work with Helm charts running on the same cluster resources.

• Developed and supported the RHEL-based infrastructure in the cloud environment. • Using Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed using Kubernetes

• Monitoring and managing Kibana logs on Environments like Dev, QA, Prod

• Provided configuration services on multiple platforms in the test environment running on one or more Platforms like Maven, Client/server, Jenkins, MS Build, Microsoft Windows NT, and UNIX. • Established Chef Best practices approach to system deployment with tools with vagrant and managing Chef Cookbook as a unit of software deployment and independently version controlled • Worked on the creation of puppet manifest files to install tomcat instances and to manage configuration files for multiple applications

• Designed and developed the tools to allow efficient configuration management, build, and release of software developed in J2EE, XML, and DB2 databases.

• Developing procedures to unify, streamline and automate application development and deployment procedures with Linux container technology using Dockers.

• Deployed the build artifacts into environments like QA, UAT, and production according to the build life cycle

• Coordinated the resources by working closely with Project Managers for the release and carried deployments and builds on various environments using a continuous integration tool

Environment: Jenkins, Terraform, AWS, EC2, Route53, S3, VPC, EBS, Auto scaling, Kubernetes, Helm, Elastic Search, Kibana, FluxCD/ArgoCD, GIT, AWS, Unix/ Linux environment, bash scripting, GitHub Actions.

**DevOps Engineer**

State of NY

January 2019 to March 2021

Responsibilities: -

• Responsible for maintaining Multiple DevOps tools &integrating, and configuring tools like Subversion (SVN), GIT, Chef, Puppet, and Jenkins across the project.

• Worked on developing automation scripts, Terraform Scripts, Google Cloud Platform, Kubernetes, analyzing the current build, release, and deployment process, and implementing CI/CD pipelines in Jenkins.

• Create clusters in Google Cloud and manage the clusters using Kubernetes (k8s) and work on setting up Kubernetes (k8s) Clusters for running microservices.

• Configured and setup the Schema Registry, Kafka connect & KSQL clusters.

• Automated the provisioning of infrastructure and created infrastructure as code using Terraform Scripts and maintained Docker container clusters managed by Kubernetes, Linux, Bash, GIT, and Docker, on Google Cloud Platform.

• Established Queuing mechanism using AWS SQS with SNS and created CloudWatch alerts for instances and used them in Auto-scaling launch configurations.

• Created S3 buckets and managed policies and utilized S3 bucket and Glacier for storage and backup on AWS.

• Designed and deployed AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto scaling groups.

• Migrated VMware Virtual Machines to AWS and managed Services like EC2, S3, CloudFormation, Route53, ELB, RDS, and VPC, etc. with Chef Cookbooks/Recipes.

• Checking the cookbooks in the test kitchen and uploading them into the actual chef server using SSL and making an ssh connection with chefDK to Vagrant, signing the certificates, and managing the multiple nodes with the server.

• Troubleshooting communication issues with Chef Client nodes and Chef Servers. • Used Stackdriver for monitoring CPU Utilization, Memory Management, and Database. • Increased stability and availability for live production sites, configured 24/7 monitoring for live sites, scheduled maintenance to warm up the infrastructure, Scheduled and involved in off-time deployments with releases

• Have one whole week Monthly for on-call rotation to handle incidents (using Pager duty), and one whole week Monthly for the fire chief to face live client and developer requirements

• We also have Apica synthetic monitoring checks to get the alerts, where we configured health check alerts for application endpoints.

• 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. • Installed Jenkins plug-in for GIT Repository, set up SCM Polling for immediate build with Maven, and used webhooks to ensure Jenkins is listening to a particular branch.

• Created bath tests using Selenium and integrated them into Jenkins for continuous integration • Created and tracked the release improvement process to be applied across all IT domains and initiates new projects related to release management.

• Created detailed production implementation plans and performed mock dress rehearsals in a production release environment.

Environment: Terraform, GCP, AWS, Kubernetes, Ansible, GIT, Jenkins, CI/CD, Docker, GIT, AWS EC2, Route53, S3, VPC, EBS, Auto scaling, Nagios, Unix/ Linux environment, bash scripting.

**DevOps Engineer**

Mphasis - Hyderabad, Telangana

June 2017 to December 2018

Responsibilities:

• Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and configuring launched instances concerning specific applications.

• Strong Experience with the AWS platform and its dimensions of scalability including VPC, EC2, ELB, S3, and EBS, ROUTE53.

• Set up and build AWS infrastructure for various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates.

• Deployed and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using puppet.

• Responsible for day-to-day Build and deployments in Dev, Test, pre-production, and production environments. Implemented AWS high availability using AWS Elastic Load Balancing (ELB), which performed balance across instances in multiple availability zones.

• Designed AWS Cloud Formation templates to create custom-sized VPC, subnets, and NAT to ensure successful deployment of Web applications and database templates.

• Experienced using Ansible tower, which provides an easy-to-use dashboard, and role-based access control, so it is easier to allow individual teams access to use ansible for their deployment. • Used configuration management tools Puppet and Docker for configuration management automation. • Openshift virtualized PaaS provider - useful in automating the provisioning of commodity computing resources for cost and performance efficiency.

• Work on Azure Storage, Network services, Traffic Manager, Scheduling, Auto Scaling, and PowerShell Automation.

• Building and configuring of EC2 instance on AWS cloud platform, Configuration of Elastic Load Balancer (ELB) for traffic control for the EC2 and S3.

• Performed all necessary day-to-day GIT support for different projects. Implemented and maintained the branching and build and release strategies utilizing GIT.

• Installed Docker using Docker toolbox and worked on creating the Docker container and Docker consoles for managing the application life.

• Utilized Configuration Management Tool Chef & created Chef Cookbooks using recipes to automate system operations. Real-time streaming of data using Spark with Kafka.

• Collaborate in the automation of AWS infrastructure via terraform, ansible, and Jenkins - software and services configuration via chef cookbooks.

• Experienced in using Ansible to manage Web Applications, Config Files, Data Base, Commands, users mount points and packages. Ansible to assist in building automation policies.

• Creating from scratch a new continuous integration stack for a web application based on Docker and Jenkins, allowing transition from dev stations to test servers easily and seamlessly. Deployed Jenkins for CI/CD, creating jobs with DSL plugin and automating the jobs using polling techniques. • Used PowerShell, JSON, XML for DevOps in Windows systems and Linux kernel, memory upgrades, and swaps area Kickstart Installation

• Installed and Configured Atlassian Tools like JIRA, Confluence, Bitbucket, and Fisheye and integrated these tools for a streamlined Agile Workflow and Project Collaboration.

Environment: Azure, ANT, PowerShell, JSON, XML, Red hat Linux (RHEL), SonarQube, dynamo DB, AWS IAM, EC2, Provisioning IAM, Configuring VPC, EBS, Monitoring using Cloud Watch and Cloud Trail, Terraform, Git Hub, Git, Python, Shell scripts, Puppet, Docker Cluster, Docker Swarm, Dynatrace, JIRA, Java/J2EE, Apache, WebLogic, Bitbucket

Education

**Masters in IT**

Wilmington University

Skills / IT Skills

• Expertly worked on Hudson and Jenkins for all the Build and Deployment Processes for End-To-End automation and Continuous Integration.

• In-depth Knowledge and best practices of Software Development Life Cycle (SDLC) & Software Configuration Management (SCM) in Agile, Scrum & Waterfall methodologies.

• Best experienced in the installation, configuration, and upgrading of RHEL 5.x/6.x/7.x, CentOS 5.x/6.x/7.x, Ubuntu, Debian by the usage of Kick Start server.

• Experienced with implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.

• Experienced in using the windows and Linux environments for creating Branches, Rebasing, Reverting, Merging, Tagging and maintaining the versions across the Environments by using SCM tools like GIT.

• Involved in designing and deploying a multitude of cloud services on AWS stack such as EC2, Route53, S3, RDS, DynamoDB, and IAM, while focusing on high availability, fault tolerance, and auto scaling.

• Expertise in setting up Kubernetes (k8s) clusters for running microservices and deploying them into a Production environment.

• Expertise in Terraform for building, changing, and versioning infrastructure and collaborating on the automation of AWS Infrastructure via Terraform and Jenkins.

• Worked on VAULT, a Secret Manager tool for storing Secrets, Key-Value pairs, and other security parameters.

• Good Knowledge in Querying RDBMS such as Oracle, MY SQL, and SQL Server by using SQL for data integrity.

• Provided expertly in Kafka brokers, zookeepers, KSQL, Kstream and Kafka control center.

• Expertise in setting up Kubernetes (k8s) clusters for running microservices and deploying them into the Production environment.

• Experienced using log monitoring tools like Prometheus, Splunk, Nagios, and ELK (Elasticsearch, Log Stash, and Kibana) to see log information. Monitor & get the health & security notifications from nodes. Created monitors, alarms & notifications for EC2 hosts using CloudWatch. Implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions.

• Good working experience with DevOps tools such as Vagrant, Virtual Box, Chef, Puppet, Ansible, Maven, ANT, SVN, GIT, Azure, Jenkins, and Docker.

• Expertise in Integration, Tuning, Backup, Disaster Recovery, Upgrades, Patching, Monitoring System Performance, System and Network Security, and troubleshooting of Linux/Unix Servers.

• Hand-On experience in implementing, Building, and Deployment of CI/CD pipelines, managing projects often includes tracking multiple deployments across multiple pipeline stages (Dev, Test/QA staging, and production).

• Ability and experience to meld development and operations to ensure quick delivery of an effective and efficient end product.

• Adapt to new, evolving technologies and implement them in current projects. Good interpersonal skills, quick learning, problem resolving, and meeting technical and business needs. Operating Systems RHEL/Centos 5.x/6.x/7, Ubuntu/Debian, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2012 Cloud Technologies AWS EC2, IAM, AMI, Elastic Load Balancer (EBL), DynamoDB, S3, SNS, Cloud formation, Route53, VPC, VPN, Security groups, Cloud watch, EBS, Athena, EWR Build Tools ANT, MAVEN Configuration Management Tools Puppet, Chef, Ansible CI Tools Jenkins/ Hudson, Anthill Pro, UDeploy Scripting: Python, Bash. Application Servers: Apache Tomcat, WebLogic, WebSphere Languages/Scripts C, HTML, Shell, Bash, PHP, Python, PHP, Ruby, Perl, and Power Shell. Web Server: Apache, Nginx SDLC Agile, Scrum, Waterfall. RDBMS Oracle, SQL Server, MS Access, MySQL 5.x, PostgreSQL Database MS SQL, ORACLE SQL, MYSQL