**Sr.AWS/Devops Engineer**

**Name: Ramakrishna Reddy**

**Phone:510-458-9482**

**Email:** [Ramakrishnartechops@gmail.com](mailto:Ramakrishnartechops@gmail.com)

**PROFESSIONAL SUMMARY:**

* 7+ Years of professional work experience in **Linux Administration,** **Build and Release Management**, System Engineer and also extensive experience with **Devops** tools**, AWS, CI/ CD, SCM and Containerization.**
* Proficient level of experience on **Devops** essential tools like **Chef ,Puppet , Ansible ,Docker, Kubernetes, Jenkins, Ant, Maven, GIT.**
* Expertise in writing **Shell** & **Python** scripts for various Systems Administration tasks to automate repeated processes.
* Experience in setup and build **AWS** infrastructure using **EC2**, Auto-Scaling in launching **EC2** instances, **Elastic Load Balancer, Elastic Beanstalk, S3, Glacier, Cloud Front, RDS, VPC, Route53**, **Cloud Watch**, **Cloud Formation**, **IAM, SNS,EBS**.
* Working with the **ELK (Elastic Search, Logstash, Kibana)** stack to analyze log data obtained from **Microsoft Business Intelligence tools**.
* Experience in creating life cycle policies in **AWS S3** for backups to **Glacier**.
* Administered **Jenkins** for Continuous Integration and to automate most of the build related tasks.
* Experience with Build tools like **Ant, Maven and Gradle** for writing **build.xmls, pom.xmls** and **build.gradles** on Java projects for the development of build artifacts on the source code.
* Expertise on version control tools like **Subversion, Git** and utilized source code administration customer apparatuses like **Github, Git GUI**.
* Experienced in branching, tagging and maintaining the version across the environments using **SCM** tools like **GIT**, Subversion (**SVN**) and **TFS** on **Linux and windows** platforms.
* Experience with setting up **Chef** Infra, Bootstrapping nodes, creating and uploading **Chef** Recipes, **Chef** Node convergence in **Chef SCM**.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform**
* Implement Insider Retail Prediction for windows insider program using **Cosmos, Scope, Azure Data Lake, U-SQL, XFlow, Azure Data Factory, Azure Blob Storage, and Databrick.**
* Implement SiMAD data pipeline using Cosmos, Scope, XFlow, and Azure Data Factory
* Expertise on creation of **Puppet** manifest files to install **Tomcat** instances and to manage configuration files for multiple applications.
* Experience with **Docker** and **Vagrant** for different infrastructure setup and testing of code.
* Proficiency in multiple databases like **MongoDB**, **MySQL**, Apache **Cassandra** and **MS SQL** Server.
* Expertise in system administration with windows, **Linux, Ubuntu, Redhat, Centos and Solaris servers.**
* **Linux/Unix** system administrator on **Redhat EL 4.x, 5.x, 6.x, Debian, CentOS 4.x,5.x,Oracle Enterprise Linux, FreeBSD, Solaris 8,9,10 and VMware V-sphere ESX/ESXi environment.**
* Positive attitude, strong work ethic, and ability to work in a highly collaborative team environments.

**TECHINICAL SKILLS:**

|  |  |
| --- | --- |
| **Operating Systems** | **Windows , UNIX, LINUX, RHEL, SOLARIS** |
| **Cloud Technologies** | **AWS, Google Cloud Platform, Azure, OpenStack** |
| **Code Version controls** | **Bit Bucket, Code Commit** ,**Subversion, Clear case, GIT and Perforce** |
| **Build Tools** | **ANT, MAVEN, Gradle** |
| **CI Tools** | **Hudson, Jenkins and Build Forge, Cruise control** |
| **Deployment Tools** | **CHEF, PUPPET, ANSIBLE** |
| **Container & container Orchestration Tools** | **Docker, EC2 Container Services, Azure Container Services, Docker Swarm, Kubernetes.** |
| **Repositories** | **Nexus, Artifactory** |
| **Monitoring Systems** | **Nagios, Splunk** |
| **Languages** | **C, C++, Perl, Shell, Python, Ruby scripting, SQL, XML, Java/J2EE** |
| **Tracking tools** | **Jira, Remedy, Clear Quest** |
| **Web servers** | **Web logic, Web Sphere, Apache Tomcat, JBOSS** |
| **Databases** | **Oracle, SQL SERVER, MY SQL, Mongo DB** |

**Professional Experience:**

**Power School Sep 2018 - Present**

**Texas, TX**

**Sr.AWS/DevOps Engineer**

**Job Responsibilities:**

* Handled operations and maintenance support for **AWS** cloud resources which includes launching, maintaining and troubleshooting EC2, S3, VPC, Elastic Load Balancers (ELB) and RDS, ELK, LAMBDA.
* Worked with **AWS** services like **EC2, S3, VPC, ELB, AutoScalingGroups, Route 53, IAM, CloudTrail, CloudWatch, CloudFormation, CloudFront, SNS,** and **RDS**.
* Managed multiple **AWS** accounts with multiple VPC's for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Strong Experience in implementing Data warehouse solutions in **AWS** Redshift, worked on various projects to migrate data from on premise databases to **AWS** Redshift, **RDS** and **S3**.
* Using **Chef** deployed and configured Elastic search, Log stash and Kibana (**ELK**) for log analytics, full text search, application monitoring in integration with **AWS** **Lambda** and **Cloud Watch**.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform.
* Involved in provisioning and Automation servers on **Public Cloud like AWS, AWS and Kubernetes**.
* Created **AWS** Multi-Factor Authentication (**MFA**) for instance RDP/SSH logon, worked with teams to lock down security groups.
* Used **Terraform** to transform the infrastructure from on - premise to cloud.
* Worked on creating the modules driven **AWS** Infrastructure with **terraform**. Created Infrastructure Git repositories for Terraform to launch the stacks.
* Work with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Worked on a Build pipeline including **Jenkins**, Artifactory and a private **Docker** registry.
* Experience in creating **Docker** containers leveraging existing Linux Containers and **AMI**'s in addition to creating **Docker** containers from scratch.
* Setup **GCP** Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP** cloud CDN (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Implemented Automate the Environment provisioning Using **Chef** & **Docker**.
* Dev cloud available with **Chef** Sdk, **Docker** and **RHEL** for creating different Environments (VMs).
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon **EC2**, **Chef**, and custom **Ruby**/**Bash** scripts.
* Implemented and Enhanced the Existing Scripts which are developed in **Shell**, **Power** **Shell**, **Ruby** and **Python**.
* Worked extensively with Terraform and wrapped it and managed the back-end state in S3 Bucket.
* Created and trouble shooted **Ansible** scripts and **Kubernetes** **YAML** files to deploy **SCM/CI/CD** applications automatically and Idempotently to reduce time costs.
* Extensively used Google stackdriver for monitoring the logs of both **GKE**and **GCP**instances and configured alerts from Stackdriver for some scenarios.
* Involved in Setup and Configuration of **Puppet**Configuration Management.
* Design and Implemented Cloud Orchestration solution using **Google Cloud, AWS EC2 & Microsoft Azure, Docker** and **Kubernetes**.
* Initially thought of using **Kubernetes** the finally decided to use **Docker** swarm because **Docker swarm** is integrated with **Docker daemon**.
* Container management using Docker by writing **Docker** files and set up the automated build on Docker HUB and installed and configured **Kubernetes**
* Automated the cloud deployments using **Chef**, **Python** and **AWS** Cloud Formation Templates.
* Installed **Chef**-Server Enterprise On-Premise/WorkStation/ Bootstrapped the Nodes using Knife.
* Managed Nodes, Run-Lists, roles, environments, data Bags, cookbooks, recipes in **Chef**.
* Implemented Auto Scaling with **Chef** and Assign **Chef** Roles to **EC2** instances.
* Deployed and configured **Chef** Server and **Chef** Solo including bootstrapping of **Chef** Client nodes for provisioning.
* Worked with automation of OS builds and application installations through **Chef**, **Nagios** for application and Hardware resource monitoring, worked with plugins in **Nagios** for monitoring resources.
* Installation, Configuration of **NFS, DNS, SAMBA, APACHE** severs in **Redhat, Debian, Ubuntu Linux** Servers.

**Environment & Tools:** Linux, Maven, Chef, Jenkins, Vagrant, Docker, Kubernetes, Nagios, Artifactory, GIT,AWS Cloud Formation ,RDS, Redhat, Linux/Unix, Redshift,Rds, EC-2,AMI,Route 53, S3, VPC, Ruby, Shell Scripts, ELK , Lambda and Cloud Watch , Auto Scaling, Python , Groovy ,RHEL

**AMERICAN EXPRESS, Jan 2017-Aug 2018**

**New York City, New York**

**DevOps/AWS Engineer**

**Job Responsibilities:**

* Coordinate release activities with Project Management, **QA**, Release Management and **Web Development** teams to ensure a smooth and trouble-free roll out of releases.
* Working in setting up Virtual Private **Cloud**, **Subnets**, routing table, internet gateway Access control list and security groups.
* Working on end to end in setting up of environments like **DEV, IT, QA, IQA UAT**andPROD environments in **AWS** **cloud**.
* Role required Planning, deploying, monitoring, and maintaining Amazon **AWS cloud infrastructure** consisting of multiple **EC2** nodes and Virtual Machine's as required in the environment.
* Strong hands-on on **AWS** cloud services like **EC2, S3, RDS, ELB,**and**EBS** for installing, configuring.
* Maintained the user accounts **(IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS** and **SNS** services in **AWS cloud.**
* Utilize Cloud Formation and **Puppet** by creating **DevOps** processes for consistent and reliable deployment methodology.
* Performed **Build/Release/SCM**engineer duties.
* Implemented **Puppet Master, Puppet Console and Puppet Agents, Create Puppet modules** and Classes.
* Performed code line **GIT** pushes (releases) to production and customer servers and Developed and improved **GIT** push scripts.
* Written **chef cook books** and recipes to Provision several pre-prod environments consisting of Cassandra DB installations, web logic domain creations and several proprietary middleware installations.
* Involved in writing **Python**, **Perl** and **shell scripts** for compilation and deployment process.
* Automated the cloud deployments using **chef, python (boto & fabric)** and **AWS Cloud** Formation Templates.
* Used Gradle and written python scripts to automate the **Build and deployment** process. Used maven for few modules.
* Working on **SAST** and **DAST** tools for secure code reviewing and to find potential vulnerabilities.
* Experience in writing **ansible** scripts.
* Used **Ansible** for configure tomcat servers and maintain.
* Worked on Virtualization of build and **SCM** environments.
* Performed **SCM**-guru tasks including branching, merging, server recovery, permission handling.
* Building pipelines in **Jenkins** while also fully scripting the creation and provisioning of **Jenkins**.
* Scripting infrastructure and (**Linux**) machine provisioning from scratch using tools such as **bash**and the**Ruby AWS-SDK.**
* Collaborate in the automation of **AWS** infrastructure via terraform, ansible, and Jenkins - software and services configuration via **chef cookbooks**.
* Worked in **DevOps** group running Jenkins in a **Docker** container with **EC2** slaves in **Amazon AWS cloud** configuration. Also gain familiarity with surrounding technologies such as **Mesos** (Mesosphere) and **Kubernetes**.
* Worked with the development team to generate deployment profiles (jar, war, ear) using **ANT** Scripts and **Jenkins**.

**Environment:** AWS-CloudWatch, S3, EC2 ,IAM, AMI, ELB, Auto-scaling ,VPC, Docker, Docker Marthon, Jenkins, Ansible, Git, Github, Python, Nagios, Python, Shell scripts, Ruby, PowerShell, Rundeck, Bash

**Humana Sep 2015 - Dec 2016**

**Louisville, Kentucky**

**DevOps Engineer**

**Job Responsibilities:**

* Develop builds using **CI/CD** tools like **Jenkins**, **IBM RTC**, **puppet**, and worked with different DevOps tools such as **SonarQube**, **Sonatype Nexus**, **GitLab** etc. on **Linux** and postgreSQL platform.
* Building and Installing Servers through **Azure** Resource Manager Templates or Azure Portal.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the **CI/CD** system to build, test deploy.
* Created reusable and tested infrastructure with **Terraform** modules and **Versioned** modules for **Staging, Testing** and **Production** environments in **Azure**.
* Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters
* Developed Json Scripts for deploying the Pipeline in Azure Data Factory (ADF) that process the data using the Cosmos Activity.
* Building and Installing Servers through **Azure** Resource Manager Templates or Azure Portal.
* Created reusable and tested infrastructure with **q** modules and **Versioned** modules for **Staging, Testing** and **Production** environments in **Azure**.
* Configuring and updating JSON files to create new stacks for Deployment using **Docker Marathon.**
* Implemented **Puppet Master, Puppet Console and Puppet Agents, Create Puppet modules** and Classes.
* Used **Kibana** to illustrate the data with various display dashboard such as metric, graphs, pia-chart, aggregation table.
* Created **Docker** images using a **Docker** file and worked on **Docker** container snapshots, removing images and managing **Docker** volumes.
* Good experience in **RDBMS** (**Oracle, SQL Server, MySQL, Informi**x) development including **SQL, PL/SQL** programs and stored procedures.
* Provide **Redha**t 6.x and 7.x support on tickets, patching and upgrades in ULA environment.
* Designed and built a Data Discovery Platform for a large system integrator using Azure HdInsight components.
* Used **Azure** data factory and data Catalog to ingest and maintain data sources. Security on HdInsight was enabled using **Azure** Active directory
* Clone projects in **Jenkins** for developers and generate builds and store it in **Sonatype Nexus** repository.
* Utilized **Azure Power Shell** to automate backups of ephemeral data-stores to **Azure Storage (Blobs, Tables, Queues, Files**, **Azure Blob Storage** and create nightly **IAAS** and **PAAS** for mission critical production servers as backups.
* Created **RDD's** Extracting the data from **Azure** Blob Storage (Blobs, Files, Tables and Queues) and making transformations & actions.
* Troubleshooting the connectivity from the Application to **DB**, maintenance of the **DB**'s in server.
* Implemented a **CD** pipeline involving **Jenkins** to complete the Automation from commit to Deployment.
* Created **Shell** &**Python** scripts for various Systems Administration tasks to automate repeated processes.
* Developed automation and deployment utilities using **Ruby, Bash, PowerShell, Python and Rundeck**.

**Environment&Tools**: Azure, Jenkins, SonarQube, RDD, Shell, python, docker, puppet, SQL,PL/SQL,Terraform, PostgreSQL

**Capital IQ Feb 2014-July2015 Hyderabad, India**

**Build &Release Engineer**

**Job Responsibilities:**

* Worked with development and product management teams to design transition and operate cloud-based workloads.
* Worked on **Chef** Basics, Initial setup of **Chef**, Data bags implementation, coding standards, Cookbook document, testing docs, Boot strapping instances using **Chef** and integrating with auto scaling.
* Experience with creating and uploading **Chef** Recipes and **Chef** Node convergence in **Chef SCM**.
* Highly involved in Configuring and monitoring multi-platform servers by defining **Chef** Server from workstation to manage and configure **Chef** Nodes.
* Wrote **Chef** Cookbooks, recipes for various db. configurations to modularize end product.
* Worked with transition projects that involved migration activities from **Ant** to **Maven** to standardize build across all applications.
* Used **Nexus** as a repository in **Maven** and worked with Snapshots and releases.
* Implemented new project builds using **Jenkins** and **Maven** as build framework tools, inspected builds in staging environment before rolling out to production environment.
* Installed and configured **Jenkins** for continuous integration and performed continuous deployments.
* Build and configured **Jenkins** slaves for parallel job execution.
* Expertise in using build tools like **MAVEN and ANT** for the building of deployable artifacts such as war & ear from source code.
* Educated team about continuous integration and automated testing practices and supported them throughout development.
* Wrote **Ruby** scripts for **Chef** Automation and contributing to our repository on **Github** for backup and recovery.
* Created, executed, and maintained automated performance test cases and scripts using **Python**.
* Installed **JFrog**, **Nexus** repository tool to maintain the artifacts/dependencies jars.
* Followed agile methodology and Worked on Stories that involved into daily scrum meetings for the status.
* Used **UNIX** **Shell** Scripts to run batch jobs and automate routine systems administration tasks.
* Excellent knowledge of Scheduling Jobs and Alerts using **SQL** Server Agent.
* A well-organized, goal-oriented, highly motivated effectual team member.

**Environment &Tools:** Chef, Jenkins, SQL, UNIX, JFrog, Nexus, Github, Python, Ant, Maven, Ruby.

**CADSYS**

**Hyderabad, INDIA**

**Build & Release Engineer Nov 2013- Jan2014**

**Job Responsibilities**:

* Worked in Installation, Migration, Integration, Implementation, **Release and building** of products.
* Maintained and executed build scripts using **Maven** by coordinating with development and quality assurance teams in **Linux** Environments.
* Administered **Jenkins**, Proposed and implemented branching strategy suitable for **agile/scrum** development in a Fast Paced Engineering Environment.
* Have worked on packaging **NodeJS** applications.
* Created and maintained **SVN** repositories including **Branching, tagging and merging**.
* Developed private **NPM** repository.
* Worked on Front end automation testing for Admin Portal using **Selenium**.
* Managed product baselines, and assisted users to merge streams.
* Created customized **plugins** for **Jenkins**.
* Developed **REST** web service using **Jersey Core** and **Hibernate**.
* Knowledge in **J2EE/.NET** build/packaging, good communication skill, experience of working between offshore/onshore
* Have worked on Tuning of **JBoss AS**and its**JMX console**.
* Developed Administration Console for **JBoss** **AS** using Clamshell-CLI.
* Edited **Maven** mirror settings in m2/settings.xml to configure **Maven** to have **Nexus** as a repository.
* Created and managed of all source code repositories, management security model, backup / restore of the source code repositories, and upgrading the version control system
* Implemented **Jira** with **Maven2** release **plugin** for tracking **bugs** and defects
* Own the creation of builds and coordinate the creation of source-code tags and branches with development groups
* Designed **CM** processes and policies with approval from development and other affected teams.
* Administered **SVN** repositories and managed account administration, branching, merging, patch fixes and snapshots.

**Environment:**AWS, Jenkins, SVN,Java/J2EE, MAVEN, Nexus, Shell Scripts, SQL Scripts, Kernel, Ubuntu, Linux

**Education:**

**Master:** Master’s of Science in Information Technology Management.

**University:** Campbellsville University,Louisville,KY