**Rakesh Endluru**

Cloud/DevOps Engineer

**PROFESSIONAL SUMMARY:**

* Customer-focused IT professional demonstrating high degree of skill in facilitating collaboration between IT operations, development and quality assurance to ensure project success and deliver high-quality products and services. **7+** years of Experience in **Systems Administration, Configuration Management**, **Software Development** **Build/Release Management, Automation, Cloud Computing, AWS, Azure services** and have sound knowledge in all phases of **Software Development Life Cycle (SDLC), Waterfall, Agile environments** and **CI/CD pipeline.**
* Strong expertise in **Provisioning, Operating** and **Managing** distributed application systems on the **AWS platform**.
* Hands-on experience on **AWS** services such as the **AWS EC2, Identity Access Management, Autoscaling**, **Route53, ELB, RDS, CloudFront, SES, SNS, SQS, Dynamo DB, ElastiCache, Elastic bean stalk, CloudFormation** and **Cloud-watch**.
* Sound Knowledge in automating the infrastructure on the **AWS** using **Terraform**.
* In-depth knowledge in building the **AWS Cloud Formation** templates for creating **custom VPC’s, subnets, EC2** **instances, Elastic Load Balancers, NAT** and **security groups** by using **JSON/YAML** scripts.
* Experienced in **Docker** for **virtualization**. Ship, Run and Deploy the application securely to speed up Build/Release Engineering. Used **Docker** for Virtualizing servers for the needs in multiple environments such as dev and QA.
* Used **Kubernetes** in our project to orchestrate **deployment, scaling, clustering** and management of containerized applications, **Docker swarm** for management of **Docker containers** of new and existing applications as well as deployment and management of complex run-time environment.
* Experience with working on **source control** management tools such as **SVN, GIT** and **Bitbucket** for Branching, Merging and maintaining versions across the environments.
* Automated various administration tasks using **Bash, JSON, Ruby, PowerShell** and **Python** Scripts.
* Implemented **Continuous Integration** and **Continuous Deployment** by using automation scripts in the pipeline process.
* Experience in setup and configuring the Application servers such as **Apache Tomcat, WebSphere** and **JBoss**.
* Experience in **configuration management** to deal with **Servers, VM’s** and in the **cloud** and manage the infrastructure using **Ansible**.
* Automated installation of **JDK 8, Tomcat** and several other **software packages** on multiple machines through **SSH** using **Ansible Playbooks** and maintained up to date.
* Extensive Knowledge in writing **Shell, Python** and **Bash** scripts throughout the entire Lifecycle of DevOps.
* Extensively worked on **Jenkins** to achieve **End to End Automation** by **Continuous integration** and **Continuous Deployment** for all the Builds and Deployments.
* Performed **Continuous Monitoring** using tools such as **Nagios** and **Splunk**, monitored system performance and health of **AWS** infrastructure using **Cloud Watch**.

**TECHNICAL SKILLS:**

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| **Version Control Tools** | SVN, GIT, BITBUCKET |
| **Infrastructure as code** | Terraform, Cloud Formation |
| **Operating Systems** | Ubuntu, Debian, Solaris, Windows, Linux (Red Hat, CENTOS and SUSE). |
| **Build tools** | Ant, Maven |
| **Continuous Integration tools** | Jenkins, Bamboo and TeamCity. |
| **Configuration Management tools** | Chef, Ansible and Docker. |
| **Defect Tracking tools** | Jira, Ontime, Bugzilla and Red Mine. |
| **Cloud Services** | AWS, Azure |
| **Virtualization and Containerization** | VMware, Docker and Kubernetes. |
| **AWS cloud** | EC2, IAM, VPC, Route53, ELB, EBS, Auto Scaling, SES, SNS, SQS, RedShift, Dynamo DB, Direct connect, Storage Gateway. |
| **Networking** | TCP/IP, DNS, NTP, FTP/TFTP, SFTP, WAN, LAN, SSH and TELNET. |
| **Databases** | Oracle 9i/10g/11g, SQL and My SQL. |
| **Scripting** | Shell Scripting, Python, Ruby, Bash, XML, C#, ASP.NET, MSBuild and Power Shell. |
| **Monitoring Tools** | Nagios, Splunk and Cloud Watch |

**PROFESSIONAL EXPERIENCE:**

**Estee Lauder, New York, NY March 2018 – Till date**

**Role: Cloud/DevOps Engineer**

**Responsibilities:**

* Managed Multiple IAM accounts In AWS for users with specific policies attached and implemented Multi Factor Authentication meeting the security compliance.
* Created alarms and notifications for monitoring EC2 instances using Cloud Watch and configured Elastic Load Balancers (ELB) by using the EC2 Auto scaling groups.
* Worked on configuration and maintenance of the AWS Virtual Private Cloud (VPC), Public and Private Subnets, NACL’s, Routing Tables, ELB, Security Groups and EC2 Instances
* Built AWS S3 buckets and managed its policies using Identity Access Management (IAM). Also used Glacier along with S3 for Backup and Storage on AWS Cloud.
* Creating AWS Cloud Formation Templates (CFT) in JSON to design custom size VPC, Subnets, NAT to deploy Web Applications and Database templates.
* Migrating Legacy Applications from across the Data Centers to AWS Cloud.
* Configuring and managing both the Cloud and on-premise GitHub repositories and administration of user accounts, maintaining proper sync of local and remote repo.
* Building a Continuous delivery pipeline with Docker for custom images of Applications in the Cloud using Jenkins.
* Worked on multiple Docker components such as the Docker Engine, Docker Machine, Docker Hub, Docker Swarm and Docker Registry.
* Configuring Continuous Integration and Continuous Deployment using the Blue – Green Deployment Methodology.
* Managed Ansible Playbooks with Ansible roles. Used file module in Ansible playbook to copy and remove files on remote systems and worked with deploying web application on Apache, Maintained high availability clustered and standalone server environments and refined automation components with configuration management (Ansible).
* Created inventory in Ansible for automating the continuous deployment and wrote playbooks using YAML scripting.
* Configured Apache webserver and Tomcat in the Linux AWS Cloud environment and automatic deployment of applications using Ansible automation.
* Experience in utilizing Jenkins for enterprise scale infrastructure configuration and application deployments checking out code from GIT and use Maven to build war/jar artifacts and creating pipelines.
* Automated Jenkins jobs checking out code from GIT pushed to Git repository by using Poll SCM, and scheduled jobs as night builds and configured Maven test, compile and build.
* Used MAVEN as a build tools on java projects for the development of build artifacts on the source code and deployed artifacts into Nexus (Jar and War file) repository and defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Monitoring of Application and Servers by using shell/python scripts and Nagios as monitoring tool to identify, resolve infrastructure problems before they affect critical processes and worked on Nagios Event handlers in case of automatic restart of failed applications and services.
* Highly participated in Linux/Ubuntu administration along with other functions managing different server's like Apache/Tomcat and databases such as Oracle, MySQL.
* Participated and contributed effectively in daily stand-up, sprint review, sprint demo and scrum meetings in Agile.
* Worked with JIRA ticket tracking as change management and bug tracking tool.

**Environment:** GIT, Docker, Nexus, AWS, Chef, MAVEN, JIRA, LINUX, Apache Tomcat, Oracle, XML, Docker, Vagrant, Maven, Ansible, Nagios, Kubernetes, Jira, Ruby, Web logic, Python, BASH Scripts, Shell scripts.

**Wells Fargo, Fremont, CA Sep 2016 – Feb 2018**

**Role: Cloud/DevOps Engineer**

**Responsibilities:**

* 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 repeated working on AWS cloud platform and its features, which include EC2, VPC, AMI, RDS, S3, Route53, IAM, Cloud Formation, Cloud Front and Cloud watch.
* Worked on AWS EC2 Instances creation, setting up AWS VPC, creating AMI’S (Amazon machine images) using VM Import/Export to import virtual machines (VM) images to amazon EC2 as AMI’s, launching AWS EC2 instances with different kind of private and public subnets based on the requirements for each of the applications.
* Used Cloud-watch for monitoring the server’s (AWS EC2 instances) CPU utilization and system memory.
* Building and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS and Created and managed an encrypted S3 bucket for all CloudTrail logs Encrypted bucket, and policy to allow MSSP to access the logs.
* Designed AWS Cloud Formation templates in JSON to create custom sized VPC, subnets, NAT to deploy Web applications & database templates.
* Designed roles and groups for new users using AWS Identity and Access Management (IAM), utilized special Security groups, IAM roles, and Authorized and edited policies for different dev and Prod users.
* Implemented a continuous delivery pipeline with Docker for custom application images in the cloud using Jenkins.
* Using the Docker, deployed a new running container, worked on the setup of Docker registry and published all the Docker images to that registry.
* Automated application deployment in the cloud using Docker technology using Elastic Container Service scheduler, created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Development of Chef recipes using Ruby Script through Knife command-line tool to create Chef cookbooks to manage systems configuration and developed Chef Cookbooks to manage system configuration and for Tomcat, MySQL, Windows applications and versioned them on GIT repositories and Chef Server.
* Worked on bootstrapping nodes with chef server for on-site application, cookbooks and wrote recipes and uploaded them to chef server to manage on-site application and services.
* Written Chef Cookbooks using Ruby for DB configurations to modularize and optimize product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.
* Implemented continuous delivery framework using Jenkins in Linux environment, created pipelines for Jenkins jobs integrating with (SCM poll) GIT and Setup GIT on a Linux environment, configured the users with LDAP, created the repository and branching structure for all the applications.
* Worked on creating Jenkins File for various Jenkins jobs using groovy script a DSL (domain specific language) to use them as various workflow scripts for defining CI/CD.
* Good knowledge in Developing Java API to connect with AWS S3 Services for storing and retrieving data Manage configuration of Web App and Deploy to AWS cloud server through Chef.
* Added resources to REST and SOAP APIs to support new features. Assisted with design of REST API for platform automation.
* Developed REST APIs in Spring Boot to consume JSON data and integrated the backend logic with the frontend views.
* Worked with Splunk monitoring using custom monitors, maintaining and adjusting existing monitors and responding to generated requests.
* Release Management and Build Automation with VSTS Developed automation scripts using PowerShell, supporting multiple hosts and VMs for Azure cloud deployments.
* Generated tickets, reports on different bug issues and tickets using JIRA tool.

**Environment:** Redhat, VMWare, SUSE, EC2, VPC, AMI, RDS, S3, Route53, IAM, Cloud Formation, MySQL, Cloud Front, Cloud watch, lambda, Docker, Chef, Git, Jenkins, Splunk, Jira**.**

**InRhythm, New York, NY April 2015 – Aug 2016**

**Role: Build and Release Engineer**

**Responsibilities:**

* Automated the build and release management process including monitoring changes between releases.
* Responsible for Development of DEV, QA, UAT and PRODUCTION Build and Release.
* Developed and implemented Software Release Management strategies for various applications according to the Agile process.
* Built and released Cloud based products containing Linux and Windows environments, using Power Shell, TFS and Python Scripting.
* Managed the development activities for multiple server instances by enabling password less SSH communication between the servers.
* Worked on Jenkins as continuous integration server by integrating it with Git, Maven, Sonar scanner and Nexus.
* Maintained and administered GIT source code tool, Created Branches, Labels and performed Merges in Stash and GIT.
* Integrated GIT into Jenkins to automate the code check-out process with the setup of SCM Polling for Immediate build with Maven, Code Analysis with Sonar scanner and artifactory as Nexus.
* Experience in integrating Unit Tests and code quality analysis tools like Junit and Selenium.
* Experienced in AWS (Amazon Web Services) including deploying new server instances through automation with CHEF and Jenkins.
* Experience in installing, administering and maintenance of CHEF which is used as a configuration management for existing infrastructure.
* Used CHEF to manage Web Applications, Config files, Database, Commands, and Users Mount.
* Experience in writing chef cookbook and recipes to automate the deployment process and to integrating chef cookbooks into Jenkins jobs for a continuous delivery framework.
* Configured JIRA workflows according to the needs to the CM team and integrated the project management features of JIRA with the build and release process.
* Proposed and implemented branching strategy suitable for agile development in Subversion.
* Extensively worked on migrating VMs from physical to virtual (P2V) environment.
* Building & configuring Redhat Linux systems over the network, implementing automated tasks through crontab, resolving tickets according to the priority basis.
* Deployed the applications (EAR & War archives) to Tomcat Application Server and static content to apache web servers.
* Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects.

**Environment:** Linux, Windows, Power Shell, Jenkins, Tomcat, Maven, Chef, Nexus, Redhat.

**GeekTek, India May 2012 to Dec 2014**

**Linux/Unix Administrator**

**Responsibilities:**

* Build, configure and deploy VMs, Snapshots and templates.
* Manage source code, software builds, software versioning, and detect tracking on software maintenance tasks/projects.
* Implemented Bash, Perl, Python scripting to automate day to day tasks.
* Involved in troubleshooting Production Server Problems related to web applications, Send mail, disk space, File system, DNS and network connectivity.
* Security, users and groups administration.
* Keeping account of server logs and application logs during deployment or other Failures.
* Writing automation scripts using shell scripting for day to day activities.
* Performed storage management with SAN/NAS.
* Used PowerShell for scripting in Windows-based systems when needed.
* Networking service, performance, and resource monitoring.
* Monitored System Performance of Virtual memory, Managed Swap Space, Disk utilization and CPU utilization.
* Automated Linux production server’s setup using scripts. Used these scripts to replicate production build environments on a local dev boxes using Vagrant and Virtual Box.
* Provide desktop support including creating images specific to client requirements and deal with issues pertaining to hardware and applications.
* Provided timely and thorough responses for off-hours problems during on-call shifts.

**Environment**: Red Hat Enterprise Linux, Shell-Scripting, LVM, Windows, RPM, YUM, NFS, LVM, HTTP, FTP.

**Education:**

* Bachelor’s in engineering and Technology – INDIA.