**Ravisankar Mamidi**

 **AWS Cloud/DevOps Engineer/Build and Release Engineer**

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**PROFESSIONAL SUMMARY**

* Over 12+ years of Professional IT experience as an AWS **Cloud Engineer, DevOps automation Engineer, Software Configuration Management (SCM), Build& Release management**, and worked in many technical roles both in **Linux** and **Windows** environments for **build/Release automation** processes in **Web & cloud/server** Environment using **Java/J2EE/JEE Technology, AWS** &**open-source** technologies.
* Experience in **AWS** services like **VPC, EC2, S3, ELB, Auto Scaling, EBS, RDS, IAM, Route 53, CloudWatch, CDN** and **CloudTrai**l.
* Experience creating the company's DevOps strategy in a mixed environment of Linux (**RHEL, CentOS, Ubuntu**) servers and creating and implementing a cloud strategy based on **Amazon Web Services**.
* Having good experience installing and configuring **McAfee ePO in AWS cloud** and deploying solutions via vendor-provided AWS template.
* Experience in building **Continuous Integration (CI) & Continuous Deployment/Delivery (CD) pipelines** as an iterative process using **Jenkins**. Experience in using the Configuration Management tool **Ansible**.
* Provisioning various AWS components and open source technologies by Infrastructure as a code ( Iac ) using **Terraform, Ansible, cloud formation etc.**
* Configuring load balancers for applications with listeners and health checks.
* Follow cloud cost optimization techniques to reduce the usage of cloud cost.
* Experience in setting up Jenkins server with **slaves and configuring Jenkins jobs**.
* Having good experience deploying applications by using **Kubernetes**.
* Proficient in **shell, bash, Perl and python scripting**.
* Experience in writing **playbooks** to automate infrastructure creation, configuration and operation changes with help of modules in playbooks.
* Build **pipeline design** and **optimization GIT, SVN, Maven, and Nexus** for**Java/J2EE** application deployments.
* Setting up continuous integration of applications in **Apache Tomcat servers** in EC2 using **Jenkins** plugins **GIT,MAVEN**.Implemented new deployment process with **Jenkins 2.0** using **groovy code**.
* Developed **Jenkins, HTML** email report to provide all information related to commit build, current commit **form stash, Gerrit**, **Jira** information.Created Build Jobs and Deployments in Jenkins.
* Proficient in automating **build and configuration process** using tools like **ANT, Maven, Gradle,Jenkins/Bamboo**and **Puppet/Ansible.**
* Support of application stacks from a mixture of technologies, including **Apache, WebSphere, WebLogic, Tomcat, and JBoss.**
* Created efficient, fluid build pipelines and utilized many products such as **Jenkins/Hudson, Ant, Maven, Cruise Control,** and integration into automated test beds **JUnit, JTest, Clover, PMD, Find Bugs,** etc.
* Experience on working with System health and performance Monitoring Tools like **Nagios, Splunk, Cloud Watch, Elasticsearch, Kibana etc.**
* Extensive experience in building & deploying **EAR, WAR, JAR files** on test, stage & production servers.
* Wrote deployment recipes for infrastructure management using **Terraform.**
* Written Templates for **AWS** infrastructure as code using **Terraform** to build staging and production environments.
* **Docker swarm** is integrated with **Docker daemon.**
* Expertise in Agile tools like **Atlassian Jira**, **Scrum** and **Continuous delivery** tools like **Nexus**, **NexusPro.**
* Automate Datadog Integrations through **Ansible Scripts** for QA, Regression and Prod environments.
* Handled large volumes of container clusters with **Docker swarm, Kubernetes.**
* Experience in working with container-based deployments using **Docker, Docker images, Docker file, Docker Hub, Docker Compose and Docker registries.**
* Responsible for building application full automation pipeline for deployment into **AWS** using **Jenkins, Artifactory, Chef** and **Terraform.**
* Used **Docker** containers to maintain the gap between development & operations for security purposes.
* Team player with excellent interpersonal skills, self-motivated, dedicated and understanding the demands of

24/7 system maintenance and has good customer support experience.

**EDUCATIONAL QUALIFICATIONS:**

* **Master of computer applications** from Anna University from 2002 – 2005

**CERTIFICATIONS**

* **AWS Certified Solutions Architect – Associate**

**TECHNICAL SKILLS**

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| **Build Tools** | MAVEN, Gradle. |
| **Bug Tracking Tools** | JIRA, Peer, confluence, |
| **Version Control Tools** | GIT, SVN, Team Foundation Server (TFS), Bitbucket, GitHub. |
| **Automation container** | Docker, Kubernetes,  |
| **Continuous Integration** | Jenkins, Team City, AWS Build. |
| **Continuous Deployment**  |  Ansible and Terraform |
| **Cloud services** | Amazon Web Services (AWS), Microsoft Azure, EC2, RDS, VPC, S3, ROUTE53, SNS, SQS, CFT, EBS, Lambda, ELB, Cloud watch, Elastic Beanstalk, Open, Trusted advisor, FSx, and Cloud trail. |
| **Monitoring tools** | Grafana, Elasticsearch, cloud watch, Nagios. |
| **Operating Systems** | RHEL (5.x, 6.x, 7x), SUSE Linux (9,10,11), CentOS 5,6, Windows 2008, VMware, Ubuntu, Win2016R. |
| **Database Servers** | Oracle 9i, 10g, MySQL 7.0, 6.5, RDBMS Oracle, PostgreSQL, Cassandra, SQL Server, S3. |
| **Web/Application Servers** | WebLogic, WebSphere, JBoss, Apache Server, Apache Tomcat. |
| **Scripting Languages** | Bash and Shell scripting, Ruby, Python, YAML, Groovy. |
| **Languages** | C, C++, Json, Java/J2EE. |
| **SDLC** | Agile, Scrum, and Waterfall. |
| **Deployment Tools** | U-Deploy, AWS Deploy. |

**PROFESSIONAL EXPERIENCE**

**Client: Commerz Bank,**  **March 2021 to Till Date**

**Role: AWS Cloud Operations Engineer**

**Description:**

customers must actively give their consent to the adjustment of the underlying set of conditions/price list in the event of changes to the price and/or general terms and conditions, etc. The consent tool is required for this purpose.

**Responsibilities:**

* Implemented Large Scale Cloud Infrastructure (250+ servers) using **AWS**resources - **IAM, Elastic IP, Elastic Storage, Auto Scaling, VPC, EC2, EBS, APIs ELB, Route 53, RDS, FSx, SNS, SQS, OpsWorks, EMR, Red Shift, Cloud Formation, CDN, KMS, S3, LAMDA (Server less), Elastic Beanstalk, ECS, Cloud Front, Snow Ball.**
* Design, integration and management of **Amazon Web Services (AWS)** cloud solutions. Provisioning of **EC2 instances and** integrated into local area offices in 5-time zones. **Amazon RDS, VPC construction, Security Group policies, IAM, APIs, Route 53, Cloud Formation, S3, Glacier, OpsWorks.**
* Migrated **100+ TiB** size **PROD** file systems from **Intel luster** to **AWS FSx** filesystem service (2018 nov launch).
* Designed Lifecycle policies for **Simple storage service(S3)** buckets to provision better storage handling and cost optimization.
* Used **AWS Trusted Advisor** service to analyze and suggest cost optimization opportunities for client workloads.
* Provisioned and supported HA ready **windows SOFS (Scaled out file server)** for prod Tier1 **Qlik** applications.
* SSL Security certificate management for enterprise, maintaining certificates across multiple **ssl providers,** and integrating certificates into products such as **nginx, apache, tomcat, AWS-ELB.**
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **Java, PHP, Node.js, Python, Ruby,** and **Docker** on familiar servers such as **Apache,** and **IIS**.
* Excellent knowledge of **S3** storage strategies such as versioning, life cycle policies, cross region replication and Glacier using command line interface **(CLI)** and Amazon Management Console Used **CFT** and Ansible to install software and automate installation.
* Used AWS cloud services such as **EC2**, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
* Developed AWS **Lambda** Functions using python boto3 library and configured the API Gateway to trigger those functions on respective API call.
* Utilized Amazon **Cloud Watch** to monitor **AWS** resources such as **EC2** instances, Amazon **EBS** volumes, Amazon RDS DB instances and Elastic Load Balancers.
* Created IAM roles for the **lambda** functions to access other AWS Resources.
* Installed and Implemented **Ansible** configuration management system. Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (**Ansible**) and experienced in writing **Ansible** scripts.
* Experience in writing **Ansible** scripts to configure tomcat servers and maintain application deployments.
* Worked with AWS, **lambda**, Python, and Big Query to create log solution for up to date analytics On Contract to Infor Developed DevOps tools cross-platform utilities with Python with AWS Boto3.
* Worked on creation of custom Docker container images, tagging and pushing the images to the **Docker** repository for further use.
* Hands on experience with **Docker** containers to maintain **Docker images, Docker hub & registries.**
* Created **RDS DB** instances using Multi-AG deployments. Tested DB instance Failover using reboot with fail-over.
* Good experience on Linux Administration installing, configuring and troubleshooting webservers and application servers.

**ENVIRONMENT:** AWS EC2, S3, RDS, AMI, IAM, Redshift, Lambda, VPC, Chef, Java, Git, Jenkins, Terraform, Python, Linux, Bash, Groovy, Subversion, Rest API, Ant, Maven, Nexus, U-deploy, SQL, Cloud Formation, Golang, OpenShift, Cassandra, Subversion, Selenium, UNIX, SVN, Docker, Jira, Python, Ruby, Shell Scripts, Tomcat, Ansible, Splunk.

**Client : Trustmark USA** **Feb 2014 to Oct2019**

**Role: AWS Cloud Operations Engineer**

**Description:**

LTE CSON minimizes the disruption to the LTE, 1x, and DO systems while making the needed parameter adjustments to the systems. In general this means that only the eNB equipment that needs a change should have a change when 1xCDMA and/or 1xEvDO parameters are changed. The amount of data that needs to be passed from machine to machine should also be limited to reduce the impact to the O&M network.

**Responsibilities:**

* Worked extensively with **AWS services** like **EC2, S3, VPC, ELB**, **AutoScaling, IAM, CloudTrail, CloudWatch, SNS, and RDS**.
* Maintaining and upgrading the EC2 instances according to the requirements.
* Creating new **EBS volumes** and attaching same to **EC2 instance** when needed.
* Proposed and implemented a branching strategy suitable for agile development in **GIT.**
* Implemented & maintained the branching and build/release strategies utilizing **GIT**.
* Automate the builds and deployment of projects using **Jenkins.**
* Continuous Delivery is being enabled through Deployment into several environments of Test, QA, Stress and Production using **Jenkins**.
* Developing **Ansible Playbooks, Docker files** for different scenarios to manage the infrastructure and integrating with CI / CD (Jenkins).
* Implemented Jira with Maven2 release plugin for tracking bugs and defects
* Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers.
* Worked with configuration management tool **Ansible** and CI/CD tool Jenkins.
* Written the Ansible playbooks as per the requirements.
* Used **Docker containers** to quickly deploy Linux based applications.
* Have good experience of creating and maintaining the **Docker containers**.
* Created the customized Docker images using **Docker file** and **Docker commit** as per the requirement.
* Experience on using version control management tool GIT and its web repositories **in Bitbucket**for source code storage and management.
* With the help of **IAM** created roles, users and groups and attached policies to provide minimum access to the resources.
* Closely working with Developers, QA, Performance, UAT testers, IT Team. Provided 24\*7 support on call.
* Created topics in **SNS** to send notifications to subscribers as per the requirement.
* EBS Volumes, Snapshots, **AMI’s**. Creating AMI images from existing instances and copy them to different regions /

**Client: HSBC, USA** **Dec 2009 to Jan 2014**

**Role: Build and Release engineer.**

**Responsibilities:**

* Supported the Management and on-site teams for new process implementations and system integrations performed by scheduling the jobs in **Control-m**.
* Deployment, and implementation of **Subversion (SVN)** as source control, collaboration and **QA tool**. Project management, versioning and blame/issue tracking using Subversion (SVN).
* Created Build Jobs and Deployments in **Jenkins.**
* Deployed the EARs and WARs in **JBOSS** Application server using **ANT script**.
* Verifying the release notes for deploying build in different servers.
* **SVN** updating for the latest version.
* Follow up and create incident Management, Change and Problem Management.
* Tracking the defects and reporting the defects using ALM.
* Monitoring the applications using **Control-m**.
* Writing the Shell script for build the code and deploy into Different servers.
* Test application security and implementation planning for production Release.
* Run release for all lower and production environments for almost forty different applications with various deployment tools **Jenkins, bamboo** and work closely with system engineers to resolve the issue.

**Environment: Subversion** (SVN), GIT, Ant, Maven, Bamboo, Sonar, Jenkins, JBOSS, Perl Scripts, Shell Scripts, Bash Scripting, Nexus,Jira, Apache Tomcat, Oracle Database, UNIX/LINUX.