

Professional Summary

- Cloud Engineer Professional with 4.5+ years of experience in DevOps Environment & Cloud AWS (Amazon Web Services).
- Designed, built and deployed a multitude of applications utilizing almost all of AWS, Including **EC2** (Elastic Compute Cloud), **S3** (Simple Storage Service), **IAM** (Identity Access Management), **SNS** (Simple Notification Service), **VPC** (Virtual Private Cloud), **SES** (Simple Email Service), **Cloud Watch**, **EFS** (Elastic File System), **Elastic Load Balancer** (Classic/Application), **Route53**, **Auto Scaling** in launching EC2 instances, Cloud Trail, RDS, AWS CLI (Command Line Interface), Cloud Front, and DB Snapshots.
- Having hands on experience in **Basic Linux commands**.
- Having good working experience in Job Automation (Cron Job), Enhanced User Security with SUDO, Backup & Restore (tar and gzip).
- Responsible for all tools configurations and coordinating with the teams.
- Strong and effective interpersonal skills and communication skills, ability to interact with clients and team members.
- Commitment, result oriented, and Zeal to learn new technologies and undertake challenging tasks.
- Assisting with the peers for any clarifications both in technical and functional in the system to deliver the product within the timeliness.
- Involved in reviewing the tasks functionally and technically to improve accuracy and minimizing the rework effort.
- Reporting to all stakeholders about the daily status of the assigned task including the client.
- Involved in the exploration of new technologies and sharing the knowledge with the team internally.
- Having Hands-on experience in **GIT** (Distributed Version Control tool), **Ansible**(Configuration Management Tools), **Docker** (Container Based Tool), **Jenkins** (Continuous Integration Tool), **Maven** (Build Tool), **Cloud Watch** (Monitoring Tool), and Kubernetes(Container Orchestration Technology).

Technical Skills

Operating Systems	: RHEL, Cent OS, Ubuntu and Windows.
AWS (Cloud Technology)	: EC2, VPC, S3, IAM, SES, SNS, Cloud Watch, EB, EFS, SQS, Elastic Load Balancer, Auto Scaling, RDS, Dynamo DB, AWS CLI, Cloud Trail,

Cloud Front, Route53, Glacier.

DevOps Tools	: GIT, Docker, Ansible, Jenkins, Maven, Cloud Watch. Tomcat.
Linux	: Cron job, Enhanced user security with Sudo privileges, back up & restore (tar and gzip), Deploy automation.
Servers	: Web Server and Tomcat server.
Languages	: YAML & Shell Scripting(basic).

EXPERIENCE:

- Working for SYSBIG Technologies as Cloud Engineer from May 2017 to present date

Technical skills on DevOps, AWS and Linux:

- Having Very good hands on experience in EC2, S3, IAM, VPC, SES, SNS, Cloud Watch, Cloud Trail, Elastic Load Balancer, Auto Scaling, EFS, RDS, Cloud Front, VPC Flow logs, Cloud Trail, and Route53.
- Used Git extensively in every project to store all kinds of code.
- Good understanding of Git stages like **workspace, stage/index, local repository, and central repository** also cleaning Git repository.
- Having a good understanding between Git reset and Git revert concepts.
- Setting up and Working with **Ansible**.
- Hands on experience in writing **Playbooks**.
- Having very good experience in **YAML**.
- Working experience in using Ansible **Ad-Hoc commands, Modules**.
- Hands on experience in working with **Roles** in Ansible.
- Installed and configured build tools Maven.
- Having complete hands on experience in working with Jenkins like establishing complete Jenkins CI- CD pipeline, managing & assigning roles, certain privileges with respect to user accounts, working with slaves, restrict labels in slaves, upstream projects and downstream projects.
- Having good hands on experience in working with GIT, GITHUB, and JIRA.
- Good understanding of docker, its components and docker workflow.
- Having good knowledge in **Docker** concepts like OS level virtualization and Union file system, layered file system which docker follows.
- Having good hands on experience in pulling **Docker images** & creating from **docker file**.
- Well experienced in working with docker volumes and sharing volumes among containers and between container and host.
- Having good hands on experience in using all kinds of dockers instructions in Docker file.
- Experienced in creating demonized docker containers & **port mapping** in Docker.

- Having good knowledge in setting up the docker registry server to push images to docker hub.
- Well-aware of Installation and Configuration of **Ansible**.
- Having good knowledge in dealing with inventory file and host patterns, Idempotency concepts, modules, and writing **Playbooks** experienced in YAML.
- Aware of Installation of Kubernetes architecture.
- Extensively used **CloudWatch** monitoring service, aware of default and detailed monitoring.
- Well versed with respect to **EC2** like Launching Windows and Linux machines and all five types of EBS (Elastic Block Store) volumes.
- Launched all three kinds of load balancers and attached to web servers and extensively used Autoscaling to provide high availability to EC2 machines.
- Having good knowledge in creating snapshots and AMIs, volumes and snapshots, attaching and detaching volumes, and created own AMIs for replication of the same environment in same/different availability zones as well as regions.
- Good understanding of concepts like scale-out, scale-in, scale-up and change termination protection to protect EC2s from accidental deletion.
- Good understanding of both system status checks and instance status checks and how to troubleshoot them.
- Having complete hands on experience in **S3** bucket to provide durability and security.
- Good awareness in ACLs (access control lists), Bucket policies, and Transfer acceleration.
- Good understanding of different storage classes/tiers and effectively used life cycle management.
- Enabled **Versioning**, CORS (Cross Origin Resource Sharing), CRR (cross region replication), and static website hosting instead of going always with EC2s, load balancers and auto scaling.
- Well versed in managing **IAM service** to administer AWS resources effectively.
- Hands on experience in IAM **roles** to access AWS resources without credentials & enabling MFA (multi factor authentication).
- Having good knowledge in creating user and group accounts and limited privileges directly to users as well as groups to have better security.
- Well-aware of all kinds of password policies and extensively used those policies.
- Having complete hands on experience in **Route53** like purchasing domain names from AWS also from other sites & creating Recordsets to provide alias names for load balancers DNS names.
- Well versed in creating all the five routing policies and specially configured health checks for failover routing policy.
- Having complete hands on experience in creating and managing **VPC**.
- Extensively used **SNS** (Simple Notification Service) at auto scaling as well as Route53 level to get notifications in server failures as well as VPC failures.
- Good understanding of RDS instance and Multi-AZs to provide high

availability and frequently taking backups (both automated and as well as DB snapshots).

- Having good knowledge in concepts like SES (Simple Email Service), SQS (Simple Queue Service), RDS (Relational Database Server), Dynamo DB, Amazon Redshift, ElastiCache, Elastic Beanstalk, Snowball (data migration service), CloudFormation and VPC peering.
- Having complete hands on experience in working with **EFS** to provide common shared storage.
- Configured **Cloud Watch** to monitor AWS resources, to get alarm alerts, to maintain a high availability and to reduce downtime.
- Experienced in working with CloudFront and CloudTrail.
- Setup **Linux OS** from cloud as per the requirement and managing system permissions for users and groups, setting passwords.
- Good understanding of booting procedure, and special permissions to files and directories.
- Enhanced user security with sudo privileges, back up & restore (tar and gzip), Deploy automation.
- Having complete hands on experience in basic Linux commands.

Project # 2:

Client: TRIZETTO

Period: Oct 2019 to Till Date

Technology Stack: AWS Cloud & DevOps

Responsibilities:

- Responsible for complete administration of **Cloud Infrastructure** in my organization.
- Created **VPC** from the scratch, defined IP ranges in VPC to have better control over VPC.
- Created **Public and Private Subnets** for proper segregation of web servers and database servers to provide high level security.
- Migrated all the object storage to **S3 Buckets** and Created **IAM role** with **S3 full access** and attached to **EC2s** to access data without credentials.
- Mounted **EFS** (Elastic File System) with EC2s to have one common storage.
- Configured **SNS** (Simple Notification Service) at auto scaling level and route53's level to get notifications mainly in case of server failures and VPC failures.
- Configured all in Auto Scaling Groups and Launch Configurations.
- Launched **Web servers in public SNs** through Auto scaling and connected to load balancer.
- Provided network to public SNs through Internet Gateways and Route tables.
- Launched **DB servers** in Private SNs and provided internet through NAT server in a secured manner.
- Opened **MYSQL** port in database servers to all the public subnets.

- Launched Bastion/Jump server in Public SNs to have ssh connection into the DB servers which are present in private subnets.
- Assigned load balancer's difficult DNS name to **ROUTE53** user friendly domain name.
- Enabled **NACLs** (Network Access Control Lists) at both public and private subnet levels to restrict and to allow Ports in providing high security.
- Installed and configured GIT and GitHub in the organization, well versed in managing SCM repositories like Git, GitHub.
- Installed and configured **Jenkins** in both windows and Linux machines.
- Installed and configured java as a pre-requisite to install Jenkins and Integrated many tools with **Jenkins** like Git, Maven, JUnit/Selenium, Tomcat web servers.
- Configured build tools like Maven/Ant and Integrated with Jenkins.
- Installed many plug-ins like **GitHub, Ant, check style, JUnit, Deploy to a container, and build pipeline.**
- Create freestyle projects, maven projects and configured **upstream projects.**
- Configured Scheduled projects by enabling **POLL SCM** to run projects frequently.
- Established complete pipeline workflow starting from pulling source code from git repository till deploying end-product into Tomcat server.
- Established complete **Jenkins CI-CD pipeline** and automated complete workflow of build and delivery pipeline.
- We have taken lead in the migration process of servers & data from the on-premises data center to AWS Cloud

Environments: VPC, EC2, Subnets, Gateways, Route Tables, IAM, S3, Web server, Database Server, SNS, Route53, Load Balancers, Auto scaling MYSQL, NAT, NACLs, Linux, Git, GitHub, Java, Jenkins, Tomcat server, Docker, Ant, check style, JUnit, Deploy to a container& Build pipeline.

Project # 1:

Client: BARD

Period: June 2017 to Sep 2019

Technology Stack: AWS Cloud & DevOps

Responsibilities:

- I used to be managing tasks in both AWS and DevOps.
- Having complete hands on experience in launching **EC2s** and configuring autoscaling with web servers to provide high availability to data.
- Extensively worked with **IAM** user and group accounts with limited privileges to individual users as well as groups in the process of maintaining less expenditure and high security.
- Well versed in IAM **roles**, enabling multifactor authentication, and aware of all password policies.
- Having hands on experience in S3 bucket like ACLs, enabled **versioning**

at bucket level to recover objects and object-lock to protect objects from accidental deletion.

- Enabled **CRR** to have an exact copy of data in another region's bucket & to replicate the same environment in another region.
- Extensively used transfer acceleration in the process of migration of data to S3 bucket.
- Worked with Route53 like purchasing domain names from AWS as well as from other websites.
- Created recordsets to assign load balancer's difficult DNS name with user friendly domain name.
- Integrated **SNS** at auto scaling level and Route53's level to get notifications.
- Worked with Chef Cookbooks and Chef Recipes to automate infrastructure as a code (IAC).
- Good experience in all kinds of docker instructions in Docker file.
- Extensively Worked with **Docker images** like pulling images from docker hub, creating images from docker file, also from docker containers.
- Well experienced in **creating containers** from docker images as well as from our own images.
- Experienced with volume mappings and **port mappings**.
- Setting up of Docker registry server.
- Extensively used **Cloud Watch** monitoring service, monitored many things, and configured cloud watch alarms to take necessary actions whenever required and to maintain high availability by reducing downtime.

Environments: EC2, IAM, S3, Route53, SNS, Linux, Ansible, Docker, and Cloud Watch.

Academic Qualifications

- MBA (Finance & Marketing) with 68.77% from S.V University in 2016.
- B. Com Computer Science with 70% from S.V University in 2014.

Declaration:

I hereby declare that given above information is true and correct to the best of my knowledge.

I understand that if any information given above is found incorrect my candidature is liable to be rejected.

DATE:

PLACE:

(B Mohan Reddy)