**Rahul Jakkula**

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**Contact: +91 7013344298**

**Professional Summary**

* Having **3.10+** years of Experience in AWS Cloud, DevOps Tools along with Linux.
* Proficient in AWS services like VPC, EC2, EFS, S3, ELB, Auto Scaling Groups (ASG), EBS, RDS, IAM, Route 53, Cloud Watch, Cloud Front, Cloud Trail & EKS.
* Understands and manages the space between operations and development to quickly deliver code to customers. Has experience with Linux. Brings maturity, enthusiasm, and a drive to learn new technologies along with real world experience.
* Experience in Terraform and Cloud Formation.
* Experience in DevOps Tools like Ansible, Jenkins, Docker & Kubernetes.
* Having experience in creating custom Docker images using Docker file.
* Experience in Writing Ansible Playbooks.
* Setup docker registry to store customized docker images.
* Hands on experience on Docker Networking,
* Performed container orchestration using Kubernetes.
* Good understanding of the principles and best practices of Deployment/Release practices.
* Worked on Jenkins to Implement CI/CD model by creating build jobs, integrating test cases, setting up distributed builds and deployments.

**Work Experience**

* Working as an **AWS DevOps Engineer Mphasis,** Mumbai, from May 2019 to till date.

**Education**

* **B.Tech (CSE) from JNTUH.**

**Skills**

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| --- | --- |
| **Cloud Services:** | Amazon Web Services, AWS-CLI |
| **Continuous Integration:** | Jenkins |
| **Source Control:** | Git, GitHub |
| **Configuration Management** | Ansible |
| **Container Technology:** | Docker, Kubernetes |

**Projects**

**Project #2:**

**Name : McDonalds.**

**Client : McDonalds.**

**Date : April 2021 to till date.**

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**About Client:** McDonald’s is the world’s leading global foodservice retailer with over 37,000 locations in over 100 countries. More than 90% of McDonald’s restaurants worldwide are owned and operated by independent local business men and women. McDonald's & our franchisees employ 1.9 million people worldwide. We serve the world some of its favorite foods - World Famous Fries, Big Mac, Quarter Pounder, Chicken McNuggets and Egg McMuffin.

**Role & Resp:**

* Responsible for architecting, designing, implementing and supporting of cloud based infrastructure and its solutions.
* Proficient in AWS services like VPC, EC2,ECS, S3, ELB, Auto Scaling Groups(ASG), EBS, RDS, IAM, Route 53, Cloud Watch, Cloud Front, Cloud Trail.
* Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Created NAT gateways and instances to allow communication from the private instances to the internet .
* Used security groups, network ACL's, internet gateways and route tables to ensure a Secure zone for organization in AWS public cloud.
* Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for a web application.v Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
* Possess good knowledge in creating and launching EC2 instances using AMI's of Linux, Ubuntu, RHEL, and Windows and wrote shell scripts to bootstrap instance .
* Used IAM for creating roles, users, groups and also implemented MFA to provide additional security to AWS account and its resources.
* Written terraform templates to create custom VPC, subnets, NAT to ensure successful deployment of web applications.
* Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
* Maintained the monitoring and alerting of production and corporate servers using Cloud Watch service.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Created snapshots to take backups of the volumes and also images to store launch configurations of the EC2 instances.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Applying Auto Scaling between ELB and EC2 instances for high availability of applications .
* experience in installing and administrating CI/CD tools like Jenkins. Extensively worked with automation tools like Jenkins to implement the End-to-End Automation .
* Created Jenkins workflow to automate the environment readiness process across different environments.
* Configured Jenkins as continuous integration tool for regular source code builds.
* Designed and implemented a continuous build-test-deployment (CI/CD) system with multiple component pipelines using Jenkins to support weekly releases and out-of-cycle releases based on business needs.
* Worked on creation of custom Docker container images, tagging and pushing the images.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
* Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment tools, and development and staging environments on AWS and Cloud.
* Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs.

**Project #1:**

**Name : NTAM Automation.**

**Client : Northern Trust, US.**

**Date : June 2019** to **March 2021.**

**About Client:** Northern Trust Corporation is a [financial services](https://en.wikipedia.org/wiki/Financial_services) company headquartered in [Chicago, Illinois](https://en.wikipedia.org/wiki/Chicago,_Illinois) that caters to corporations, institutional investors, and ultra-high net worth individuals. Northern Trust is one of the [largest banking institutions](https://en.wikipedia.org/wiki/List_of_largest_banks_in_the_United_States) in the [United States](https://en.wikipedia.org/wiki/United_States) and one of the [oldest banks in continuous operation](https://en.wikipedia.org/wiki/List_of_oldest_banks_in_continuous_operation). Northern Trust Asset Management provides [investment management](https://en.wikipedia.org/wiki/Investment_management) services. It offers both [active management](https://en.wikipedia.org/wiki/Active_management) and [passive management](https://en.wikipedia.org/wiki/Passive_management) strategies for equity and fixed income investing, as well as alternative asset classes such as [private equity](https://en.wikipedia.org/wiki/Private_equity) and [hedge funds](https://en.wikipedia.org/wiki/Hedge_fund) and multi-manager products and services.

**Roles & Responsibilities:**

**.** Responsible for architecting, designing, implementing and supporting of cloud based infrastructure and its solutions.

* Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC
* Created NAT gateways and instances to allow communication from the private instances to the internet.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to server static content for a web application.
* Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement
* Uploaded CSV file into Oracle DB
* Written Oracle DB Scripts to Purge old data .
* File system and NFS Administration on Linux and UNIX server platforms.
* User administration and Sudo Administration.
* Package Management with YUM and RPM (Installation, Updating and Rollback).
* Implementing ACL’s on OS file systems.
* Writing bash scripts for implementing ACLs on samba shared files
* Scheduling cronjobs for deleting application logs older than 15 days
* Restarts and deployments in production and non-production environment.
* Granting necessary file permissions to read/write files on the application.
* Enabling Ports and Services through Firewalls.
* Experienced in Performance tuning of Linux servers using ps, free, df, top, vmstat, Netstat.