**Rafath  
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Sr. Devops Consultant**

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**PROFESSIONAL SUMMARY:**

* **An IT Professional with around 9 years** of experience in **DevOps/Cloud Engineer** operations processes involving **Automation**, **Build/Release Management**, Software Configuration Management, Service, Incident, and Change Management. Experience in Software Development Life Cycle (**SDLC**) & **Agile Methodologies**.
* In depth understanding in cloud computing strategies **SaaS, PaaS, IaaS** solutions and skilled at Software development Life Cycles like **Waterfall, Agile and Scrum programming methodologies**.
* Working with **Azure Active Directory** service creating Azure AD authentication, Roles, Users and groups.
* Also working on Application registration using Azure Active Directory to create Service Principal connections between **GCP**, **Azure DevOps** and **Azure Cloud** for linking the web app services.
* Creating and Managing Virtual Machines in Windows **Azure** and setting up communication with the help of Endpoints. Configured **Shared Access Signature (SAS)** tokens and Storage Access Policies in **Azure Cloud Infrastructure**.
* Experience on the **GCP services** like Cloud SQL, VM, App services, Storage, SQL DB, Firewall, Networking and Load Balancers.
* Experience on **Azure Services** like VM, App Service, Websites, SQL Azure, Storage, Blob Service, Cosmos DB, Network Services, VNets, Load Balancer, Resource Manager, Scheduling and PowerShell Automation.
* Managing and Monitoring **Kubernetes** clusters using **Prometheus** as a data aggregator and **Grafana** as a data.
* Implemented infrastructure on new **AWS, GCP** systems and migration of existing infrastructure to GCP and AWS Cloud platforms and automated using **Terraform, Cloud Formation** Templates and modules.
* Hands on experience in writing **Terraform API modules** to manage infrastructure, for automatic creation of AWS services like **RDS**instances, **VPCs, Autoscaling groups, Load balancers, SQS, S3 buckets**.
* Experienced in creating the AWS cloud Infrastructure by using **Terraform** and Deployed IaC code using Jenkins CI/CD pipelines and configure **AWS EC2** with **Ansible Playbooks and Roles**.
* Experienced in querying and extracting data from AWS **RDS** using MySQL, SQLServer, MongoDB and deploying in the AWS Redshift.
* Experienced on Task Scheduling & System backup using Python, Ruby, Bash and Shell Scripting.
* Provisioned the **AWS App Mesh**for network traffic controls on EC2 instances, **ECS, EKS**, **AWS Fargate**and integrated monitoring tool cloud watch to automatically export the data to **Splunk**and **Kibana**.
* Set up a **GCP** Firewall rules to allow or deny traffic to and from the **VM** 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.
* Worked on version control and source code tools like **GIT**, **Subversion (SVN)** and used Source code client tools like **Bitbucket, GitLab, Git Bash, GitHub,** and **Git GUI**.

**TECHNICAL SKILLS:**

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| **Cloud Platform** | Google Cloud Platform, AWS, Azure |
| **Infrastructure as a Code** | AWS CDK, AWS CloudFormation, Terraform |
| **SCM/Version Control Tools** | GIT, GitHub, SVN, Bitbucket, AWS Code Commit |
| **Continuous Integration Tools** | Jenkins, Bamboo, TeamCity, Harness |
| **Build Tools** | Maven, ANT, Gradle |
| **Configuration Management Tools** | Ansible |
| **Containerization Tools** | Docker, Kubernetes, Docker Swarm, OpenShift |
| **Scripts/ Languages** | Shell Scripting, YAML, Python, PowerShell, TypeScript, JavaScript |
| **Databases** | Oracle, MongoDB, SQL Server, MS SQL, Big Query |
| **Automation Tools** | Jenkins, Jfrog, Nexus, Compliance, Helm |
| **Monitoring Tools** | Nagios, Splunk, CloudWatch, Prometheus, Grafana, CloudTrail, ELK |
| **SDLC** | Waterfall, Agile, Scrum |
| **Operating System** | UNIX, Linux (Ubuntu, SUSE, RHEL, Centos), Windows, MacOS. |

**CERTIFICATIONS:**

* AWS Certified DevOps Engineer – Professional
* AWS Certified Developer Associate

**Experience:**

**Client: Amazon Web Services Inc, Dallas, TX Nov 2022 – Present**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Analyzing and pinpointing data trends to drive internal and customer-facing platform improvements, while advancing standardizations of new and existing business processes.
* Providing proactive recommendation throughout all phases of web service implementation for key customers around DevOps technologies, system automation, infrastructure orchestration, configuration management and continuous integration, continuous delivery technologies (CI/CD).
* Working in collaboration with Subject Matter Experts and other service engineering teams to drive complex customer issues to resolution. Documenting corner case scenarios and troubleshooting workflows in AWS internal knowledge databases and also writing tutorials, creating how-to videos, and other technical articles for AWS customer community.
* Applying knowledge of information science and technology to perform network troubleshooting of issues related to Docker containers and Kubernetes clusters deployed using Elastic Containers Service with Docker (ECS) and Kubernetes deployments running on AWS (EKS) utilizing tools and technologies including TCP/IP, DNS, DHCP, firewalls, routing, switching, LAN/WAN, traceroute, iperf, dig, CURL or related.
* Evaluating and optimizing infrastructure and software application deployments when using one or more version control platform like Git, SVC etc.
* Working on modern programming languages like JSON/YAML/PowerShell/Python/JAVA/C# to deploy cloud applications.
* Supporting incoming customer requests by following an extensive step by step approach. This troubleshooting approach incorporates both high-level perspectives of Amazon Web Services in the customer’s application architecture as well as dive deep into customer’s specific technical issues using available internal Amazon tools to view and troubleshoot customer resources.

**Environment**: JSON, YAML, PowerShell, Python, JAVA, C#, Terraform, Kubernetes, iperf, CURL, DNS, CI/CD, Git, SVC, DHCP, firewalls, routing, switching, LAN/WAN, ECS, EKS, TCP/IP, Ansible, docker, EC2, AWS.

**Client: Booz Allen Hamilton, Charleston, NC Jan 2021- Oct 2022**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Worked in automating the infrastructure as code deployments using Terraform, Ansible and packer.
* Worked in creating the different environments for application deployments right from Dev, Staging (Alpha n Beta), Non-Prod and Prod
* Achieved migration of the environments from on-premises to AWS cloud through a secure based, test driven infrastructure development methodology, using Terraform, Ansible and Chef inspec for testing the compliance of the infrastructure code.
* Used Jenkins as an orchestrator for integrating all the tools together and achieved continuous integration and delivery.
* Having extensive knowledge on Kubernetes, OpenShift and the container orchestration, deployment methodologies using AWS services such as ECS and EKS
* Created, configured, and automated Amazon Web Services as well as involved in deploying the content to cloud platform using the services such as EC2, S3, EBS, VPC, Route 53, Auto Scaling, Elastic Beanstalk, Code Pipeline, Migration hub, ELB, SNS, Ops Works, Redshift and Cloud watch.
* Leveraged the entire environment by writing infrastructure as code scripts using Terraform, and configuring the servers using Ansible, tested the infrastructure using chef inspec and awspec frameworks.
* Automated the entire delivery process using Jenkins as an orchestrator between the different stages of code leveraged using different tools.
* Wrote the test cases for entire infrastructure resources and tested them against different environments such as local, remote and any defined environment.
* Integrated Terraform, ansible and Jenkins together to create a continuous Integration and deployment pipeline for the creation and management of infrastructure and services used methods such as DNS server creation using Ansible templates, Playbooks and Roles
* Involved in 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.
* Worked with development/testing, deployment, systems/infrastructure, and project teams to ensure continuous operation of build and test systems.
* Expertise in implementing merging, branching strategies, defect fixes and configuration of version control tools like Subversion (SVN), GIT, Bit Bucket and Git Hub for smooth release management into production environments.
* Worked on Tomcat, JBOSS, and WebLogic and WebSphere Application servers for deployments.
* Coordinated effectively with testers, developers, technical support engineers and all the concerned people in trying to achieve overall enhancement of software product quality.

**Environment**: EC2, S3, EBS, VPC, Route 53, Auto Scaling, Elastic Beanstalk, Code Pipeline, Migration hub, ELB, SNS, Ops Works, Redshift, Cloud watch, Tomcat, JBOSS, ECS, EKS,Shell scripting, Kubernetes, OpenShift, Terraform, packer, Subversion (SVN), GIT, Bit Bucket, Git Hub, AWS.

**Client: Cybertech Integrations, India May 2017- Dec 2019**

**Role: DevOps Engineer**

**Responsibilities:**

• Created S3 buckets and maintained and utilized the policy management of S3 buckets and Glacier for storage and backup on AWS and developed a notification system using LAMP, PHP, MVC and Amazon Web services

• Managed AWS infrastructure as code using Terraform and written Terraform templates for configuring EC2 instances, security groups, subnets and automated the infrastructure using Ansible and Terraform

• Achieved designing AWS CloudFormation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates in both dev/prod environment

• Implemented continuous integration and deployment using Blue-Green Deployment using AWS development tools and created solutions using AWS Ops Works for maintaining the applications

• Achieved containerizing the applications and builds using Docker, worked heavily in setting up of docker hub for the images to store and writing docker-compose files for building the and orchestrate the environment using docker compose

• Implemented Infrastructure automation through Ansible for auto provisioning, code deployments, software installation and configuration updates and achieved testing automation by writing YAML scripts for the integration tests

* Extensively involved in Version Control, Build & Release Management and Deployments of the Solutions to the DEV, QA & PROD Environments leveraging Azure DevOps (VSTS)/TFS principles/process (CI/CD) and toolsets of Visual Studio, Docker Containers, AKS (Azure Kubernetes Service), App Service, Application Insights and new Az/ PowerShell modules.

• Involved heavily in setting up the CI/CD pipeline using Jenkins, Maven, Jfrog, Ansible, Bitbucket, Sonarqube

• Installed and set up the Jfrog artifactory for the organization, integrated it with the existing CI environment and migrated all the artifacts from Nexus to Jfrog and used Jfrog CLI, Mission Control and X-ray for the end-to-end storage and deployments of the artifacts

• Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, GIT with Dev/Test/Prod Branching Model for weekly releases and Configured Bitbucket with Jenkins and schedule jobs using POLL SCM

• Coordinated with developers for establishing and applying appropriate branching, labeling/merging conventions using GIT as version control

• Built and maintained Elasticsearch, Logstash and Kibana stack to centrally collect logs that are used to monitor applications and pipelined Application Logs from App Servers to Elasticsearch (ELK Stack) through Logstash and monitored Active Directory through LDAP DN and RDNs for authentication

• Automated Selenium testing using circleCI, run them in docker container and deploy the images and artifacts to the respective environments using ansible

• Worked heavily with the REST API services such as CURL, Postman to obtain the OSS licenses for the code base of the organization and JMeter API for the functional API testing

• Performed Code Quality Analysis technique by integrating SonarQube, Find bugs, PMD with CI tools

**•**  Managed Elastic Cloud Computing (EC2) instances utilizing auto scaling, Elastic Load Balancing, and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Ansible

•Worked with relational database systems such as SQL, PostgreSQL non-relational databases such as NoSQL and Cassandra

**Environment**: QA, UAT, REST API, SQL, , PostgreSQL, NoSQL, Cassandra,EC2, GIT, Ansible, CURL, JMeter API, API testing, circle, SonarQube, PMD, CI tools, Elasticsearch, POLL SCM, Shell scripting, Jfrog, LAMP, PHP, MVC,AWS, Jenkins, Terraform, CI/CD pipeline, docker, EC2, YAML.

**Client: Genpact, India Sept 2014 – April 2017**

**Role: Devops engineer**

**Responsibilities:**

* Creating Amazon EC2 instances using command line calls and troubleshooting the most common problems with instances and monitoring the health of Amazon EC2 instances and other GCP services.
* Involved in supporting cloud instances running Linux and Windows on GCP, experience with Elastic IP, Security Groups and Virtual Private Cloud in GCP  
  Extensive experience on configuring Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private Subnets in VPC and other services in the GCP.
* Managed network security using Load balancer, Auto-scaling, Security groups and NACL.
* Utilized GCP CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
* Maintained and developed Docker images for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in Google Cloud Platform (GCP) on Kubernetes, Helm.
* Knowledge on creating user groups and roles to manage security at application level, project level for the end users.
* Extensively used Google stack driver for monitoring the logs of both GKE and GCP instances and configured alerts from Stack driver for some scenarios.
* Experience with refreshing SSL certificates.
* Knowledge of LDAP/SAML authentication methods.
* Knowledge on Airflow workflow, design, and enablement.
* Worked on OpenShift PaaS product architecture and worked on creating OpenShift namespaces for on-prem applications migrating to cloud.
* Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers.
* Experience in creating Docker Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch on both Linux and Windows servers.
* Container clustering with Docker Swan Mesos / Kubernetes.
* Worked with Amazon GCP/EC2, and Google's Docker based cluster management environment Kubernetes.
* Creating Jenkins jobs and distributing load on Jenkins server by configuring Jenkins nodes which will enable parallel builds.

**Environment**: GCP, Jenkins, GCP, OpenShift, Puppet, Chef, Docker, Python, Ruby, Linux, Unix, Apache Tomcat.