Althaf Hussain Kalebaigari Banglore

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Professional Summary:

DevOps Engineer with 3.5 years of experience in IT Infrastructure, specializing in AWS Cloud Management, CI/CD automation, and Infrastructure as Code (IaC). Proficient in AWS services, Jenkins, Ansible, Terraform, Docker, Kubernetes, Airflow, Databricks, Tableau, and SQL. I am skilled in streamlining deployments, optimizing cloud infrastructure, and implementing automation solutions to enhance system reliability and efficiency. Passionate about driving DevOps best practices and ensuring seamless collaboration between development and operations teams.

- Extensive experience in AWS, DevOps, environment setup, automation, Terraform, and Ansible.
- Created and managed Databricks multi-workspace environments with shared and personal compute.
- Designed and implemented infrastructure using Terraform, Ansible, and CloudFormation.
- Built and deployed custom Docker images using Dockerfile.
- Developed and maintained CI/CD pipelines using Jenkins with auto-triggering for deployments.
- Strong hands-on experience with AWS services including EC2, S3, EBS, IAM, EMR, EKS, RDS, CloudWatch, SNS, Lambda, Secret Manager, API Gateway, and EventBridge.
- Configured IAM policies for applications like Airflow, Tableau, and AWS services such as ECR, Athena, S3, and EC2.
- Monitored server performance, logs, CPU, RAM, and disk storage using CloudWatch and SNS alerts.
- Automated dependency installation using shell, Ansible, or Python scripts.
- Managed SQL Server and application metadata backups on a weekly and daily basis.
- Maintained AWS snapshots using Lifecycle Manager for backup and recovery.
- Experience in deploying applications in EC2 using Terraform, Ansible, and Shell scripting.
- Installed and managed required dependencies and libraries as a Databricks administrator.
- Managed Notebooks and permissions for Databricks users.
- Built scalable infrastructure and automated deployment processes with Jenkins (CI/CD).
- Deployed applications into Tableau linked with Postgres, Athena, and RMT using Ansible and Terraform.
- Ensured high availability and uptime for AWS applications and services.
- Created Ansible playbooks for application upgrades, installations, and configurations.

Professional Experience

- Currently Working as a **DevOps & AWS Engineer** in **Bolt solutions Inc.** from August 2021 to till date.

TECHNICAL SKILLS

SCM Tools	Code Commit, GIT
Build Tools	Sbt
Continuous Integrated Tools	Jenkins
Configuration Management Tool	Ansible
Containerization Tool	Docker, kubernates
Monitoring Tool	Cloud watch, Prometheus and RMT
Deployment Server	Tableau, Airflow, superset
Cloud Platform	AWS (Amazon Web Services)
Scripting	Shell, Groovy and Python

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Certificates & Achivements

1. AWS Cloud Practitioner Certification
2. Awarded for best employee of August 2023 and Jan 2024.
3. Created the Workshop demo (with load balancer DNS able to open the URL and Bolt tech logo)
4. Created multiple Jenkins pipeline for same application for Infrastructure set up (Without destroying the applications)

Hobbies

Travelling, Videography, watching movies and Cooking .

Project Experience

Project-1:

Title	Tableau Application setup with DR
Client	Bolt Solutions Inc
Position	DevOps & AWS Engineer
Duration	March 2022 to Dec 2022

Description:

Here I developed a TF code for the deployment of Tableau application in EC2 server with all the dependencies and configuration files. This application for the reporting team they develop charts and reports and the application URL access by the external and internal customers we are managing the application as Admin level. And also I created Jenkins pipeline for the Disaster Recovery (DR) for the backup.

Roles & Responsibilities:

- Developed **Terraform (TF) code** to automate the deployment of **Tableau Server** on **AWS EC2**, including all dependencies and configurations.
- Managed **Tableau Server** at the **admin level**, ensuring seamless access for reporting teams and external/internal customers.
- Configured **security groups, IAM roles, and networking** for secure Tableau access.
- Upgrading the tableau application versions running in server using the ansible playbooks.
- Created a **Jenkins pipeline** to automate **Tableau Disaster Recovery (DR) backups**.
- Implemented **scheduled backups** to ensure quick recovery in case of failures.
- Monitoring the tableau server through the RMT application and AWS CloudWatch like disk space, memory,RAM usage and created Alarms for the same.
- Configure the Amazon event bridge and getting alerts to the MS Teams.
- Creating users and giving permission to them in tableau server.
- Maintaining the RMT master and RMT agent both are up and running every time for the monitoring.
- Added the additional node for the load sharing in tableau for the data refreshes.
- Running every day the logs cleanup in the server using the shell script with cron
- Managing both Tableau server User Interface (UI) and the TSM (Tableau server manger)

Project-2:

Title	New Data Ware House
Client	Bolt Solutions Inc
Position	DevOps & AWS Engineer
Duration	Feb 2023 to Oct 2023

Description:

Highly skilled DevOps Engineer with expertise in deploying, configuring, and managing Apache Airflow using Terraform and Docker. Experienced in containerization, cloud infrastructure automation, monitoring, and alerting mechanisms for server health and job failures. Strong background in CI/CD, version control, and collaborating with developers for efficient code management.

Roles & Responsibilities:

- Maintaining the logs to watch in cloud watch.
- Deployed **Airflow Server** using **Terraform** and managed infrastructure as code.
- Created **DAGs** for job automation and scheduling.
- Implemented **Docker-based Airflow deployment** using custom **Dockerfiles** and configured it with Databricks applications.
- Built and deployed Docker containers to **Amazon ECR (Elastic Container Registry)**.
- Developed **Ansible playbooks** for Docker setup, **package installations**, and file transfers.
- Configured **Docker Compose** for Airflow container orchestration.
- Implemented **CloudWatch alarms** for Airflow job failures and **server-side metrics** (CPU, disk usage, etc.).
- Created multiple alert channels for different environments like **Deliverable_jobs** for successful executions and **Prod_job_failed** for production failures.
- Integrated job failure alerts into **Microsoft Teams**
- Maintained healthy **Docker containers**, ensuring uptime and performance.
- Maintained source code in **AWS CodeCommit** with **multiple branches**.
- Managed **merge access** for developers and ensured **code reviews**.
- Updated **Dockerfiles** to incorporate application changes and dependency upgrades.

Current Project #3:

Project Name	Analytics Portal
Client	Bolt Solutions Inc
Position	DevOps & AWS Engineer
Duration	Aug 2024 to Till date

Description:

Setting up a new Superset application in Amazon EKS with the help of Terraform, configuring and installing dependencies using shell scripts. The goal is to automate the export and import of metadata (charts, datasets, dashboards, roles, and rules) between environments using a Jenkins pipeline. Additionally, managing the application, creating users, roles, and access for customers while ensuring the application remains in optimal condition in EKS.

Roles & Responsibilities:

- Make sure that the Jenkins pipeline runs daily for the metadata export and import.
- Ensure the Jenkins pipeline runs daily for Superset metadata export and import between environments.
- Update and enhance the shell script to include required dependencies for the next stages as needed.
- Build, deploy, and manage containerized applications using Docker.
- Automate infrastructure provisioning and configuration management using Ansible.
- Implement Infrastructure as Code (IaC) using Terraform for managing AWS resources.
- Interact with AWS services and resources programmatically using AWS CLI.
- Perform Linux system administration, including troubleshooting and maintenance.
- Develop automation scripts and tools using Python.
- Deploy and manage microservices within Kubernetes pods.
- Implement Jenkins pipelines for automated build, test, and deployment workflows.
- Manage EC2 instances, ensuring security, scalability, and optimal performance.
- Utilize AWS CodeCommit for source control to enable collaboration and automated deployments.
- Administer AWS IAM to ensure secure access control for AWS resources.
- Leverage Amazon S3 for scalable and durable object storage solutions.
- Manage Docker container images using Amazon ECR for secure storage and distribution.
- Orchestrate Kubernetes clusters with Amazon EKS, ensuring efficient management of containerized applications.
- Monitor AWS resources and applications using Amazon CloudWatch.
- Implement event-driven architectures utilizing Amazon SNS for message distribution.
- Schedule and manage daily and weekly backups of the application to ensure data integrity and recovery.
- Create CloudWatch alarms for high CPU usage, disk space, and unhealthy instances to proactively monitor system health.

- Ensure the ALB (Application Load Balancer) is accessible to authorized users.
- Manage user access by adding and configuring roles within the Superset application.
- Maintain centralized logging for application monitoring and troubleshooting in Amazon CloudWatch.
- Scale EKS cluster nodes based on workload requirements to optimize performance and cost efficiency.

Declaration:

I hereby declare that the information above is true and correct to the best of my knowledge and belief and can refer above for verification

(K Hussain)