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Career Objectives

Experienced Cloud and DevOps Engineer with 3 years in AWS cloud infrastructure and automation. Expertise in developing secure, scalable file transfer systems and managing complex deployments. Skilled in AWS services, Terraform, and CI/CD pipelines real-time troubleshooting. Proven ability to enhance system efficiency and security.

Career Summary

- Proficient in Terraform for provisioning a wide range of AWS services with a modular approach, dynamic provisioning, and reusability. Experienced with Terraform Cloud.
- Developed Terraform code for **S3, CloudFront, Secrets Manager (for retrieving credentials), AWS Lambda, API Gateway, ELB, ECS, ECR, EC2, RDS, DynamoDB, KMS.**
- **IAM (Users, Roles, Policies), SNS, SQS, VPC, Subnet, NAT, VPC Endpoint, CloudWatch events, alarms, and logs.**
- Implemented Terraform code to provision and manage **AWS Transfer Family for SFTP, enabling secure and automated transfer of on-premises files to Amazon S3.** This solution streamlined data migration processes and enhanced data security.
- Engineered a file transfer system using AWS Lambda and Transfer Family for secure data movement between cloud and on-premise environments.
- Implemented **IAM roles and KMS encryption for file security, increasing transfer reliability, reducing transfer times by 30%, and improving incident response by 40%.**
- Performed end-to-end architecture and implementation for migrating secure data from on-premises to S3 using the **S3 API mechanism with auto-checksum validation (SHA-256)** and KMS encryption to secure file transfers.
- Developed Python scripts to retrieve credentials from **HashiCorp Vault.**
- Developed **Python scripts** for splitting text and PDF files based on unique values, automating mainframe file migration to AWS S3 via SFTP, and integrating with API Gateway and Lambda for UI interactions and DynamoDB data management.
- Converted CSV to Parquet and created scripts for efficient data loading into DynamoDB via Lambda. Developed a **GitLab CI/CD pipeline from scratch, including multiple stages for Terraform, SonarQube, Snyk, proxy connection, and JFrog artifacts, enabling automated build, test, and deployment processes in test and production environments.**

- Proficient in designing high availability and disaster recovery capabilities for production environments. **Set up CodeCommit, CodeBuild, CodeDeploy, and CodePipeline for application deployment in AWS.** Strong ability to understand client needs and deliver solutions that meet **service-level agreements (SLAs)** with high efficiency and quick turnaround times.
- Worked with **GitHub Actions** for CI/CD pipelines, have experience in **shell scripting** with Linux servers for automation and system management, and worked on a **proof-of-concept (POC) for Kubernetes.**
- Experienced in fixing infrastructure issues, and ensuring stable operations in development and production environments.
- Skilled at identifying and resolving data issues quickly, minimizing delays, boosting performance, and ensuring client satisfaction.
- Obtained **AWS Solutions Architect Associate and AWS Developer Associate certifications.**

Skill

Cloud Technologies	: S3, AWS Lambda, EC2, Transfer Family, IAM, KMS, Secrets Manager, EventBridge, Cloudwatch, SNS, CloudTrail, VPC, DynamoDB, RDS, CloudFormation, ECS, ECR
Devops Tools	: Terraform, CI/CD – GitLab, Code Build, Code Pipeline, Jenkins, Docker, Git-Hub Actions
SCM	: Git, Code-Commit, Gitlab,
Security	: AWS IAM, Data Encryption (KMS), Secrets Manager, Hashicorp Vault.
Server	: Linux, Windows
Programming Language	: Python
SAST	: SonarQube, Snyk, Lablooter
Package Manager & Artifactory	: Maven, Pip, Npm, Jfrog
Ticketing Tool & Monitoring	: ServiceNow, Datadog
IDE's	: Visual Studio, PyCharm

Certification

- AWS Solution Architect – Associate Certified,
- [AWS Developer – Associate Certified](#)

Education

Graduation: B.E Mechanical Engineering in 2020.

Work Exposure

HTC GLOBAL SERVICES – 2021 – PRESENT:

Litigation Data Migration to S3

Overview: Played a key role in the successful migration of 3.5PB of HBase data from an on-premises server to Amazon S3, focusing on secure data transfer, integrity, and quality assurance.

Key Responsibilities:

- Developed Terraform code from scratch for resources like IAM roles, S3, KMS, SNS, Lambda, and GitLab CI/CD pipeline with SAST and stages for both test and production environments.
- Created Python scripts for efficient data transfer, implementing Sigv4 authentication, multipart upload for 5TB files, and auto checksum validation using the Python SDK.
- Integrated Lambda functions to trigger SNS notifications for real-time updates on data transfer status.
- Ensured data security and integrity with KMS encryption and checksum validation, successfully transferring 3.5PB of data without compromising quality.

Managed File Transfer (MFT) System

Overview: Developed a robust file transfer system for secure cloud and on-premise data movement using AWS services.

Key Contributions: Automated transfers with AWS Lambda, Transfer Family, and S3. Enforced security with IAM, encryption, and PGP. Implemented monitoring with Datadog and alerts via SNS. Impact: Enhanced scalability and efficiency, reducing manual interventions by 50% and meeting security compliance stand.