

Summary

- Cloud and DevOps engineering experience with AWS services ECS, EKS, EC2, S3, IAM, Auto scaling, Cloud Formation, VPC, and Load Balancer and deploying applications in ECS with Terraform.
- Experience with Jenkins CI/CD to automate most of the build and deployment related tasks.
- Planned and executed the cloud orchestration and automation through AWS Cloud Formation and Terraform.
- Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and teamwork environments.
- Strong verbal and written communication skills to maintain productive work relationships with management, clients, team members, and other groups.

Technical Skills

Cloud Technologies	AWS – ECS, EKS, EC2, S3, Cloud Watch, Cloud Formation, Cloud trail, SNS, AWS Lambda, AWS API Gateway, Elastic Beanstalk
Provisioning Tool	Terraform, Ansible, AWS Cloud Formation
CI/CD Tools	Jenkins, AWS Code pipeline
Container Tools	Docker, Kubernetes
Monitoring Tools	AWS Cloud Watch
SCM repository	GitHub
Scripting	Shell
Operating Systems	Windows, Linux

Education**Master of Science in Cloud Computing Architecture,**

UMGC – Dec 2019 to Dec 2021.

Experience:**Autonomic Solutions LLC****June 2022 - Present****Cloud/ DevOps Engineer**

- Working on the build out of Autonomic Computing Platform (ACP) using Terraform Infrastructure as Code, AWS Cloud services and DevOps toolchain.
- Deployed the ACP application modules (frontend and backend) through Elastic Container Service using Terraform.
- Setup and evaluated extensively open-source DevOps toolsets – Dockers (Containers), and **Kubernetes** (Container Orchestration).
- Used Kubernetes to manage containerized applications using its nodes, Config-Maps, selector, Services, and deployed application containers as Pods.
- Planned and configured network infrastructure within the **VPN** with public and private subnets and configured routing tables and internet gateway, Security Groups.
- Automate provisioning and repetitive tasks using Terraform.
- Wrote Terraform configuration for the deployment of application with EC2, load balancer, VPC, and autoscaling group.

Capstone Project Work – Cloud Engineering

Ballot Online (Case study), company providing voting solutions to a global client base. With the growth of the company, the internal data centers are maxed. On migrating the company from on premise model to the cloud could save lot like no need of physical servers or manpower in the same place. Cloud vendor is chosen based on the **Request for proposal (RFP)** and we build out an environment on AWS to migrate the Ballot Online web service. Understanding the **Recovery Time Objective (RTO)**, **Recovery Point Objective (RPO)** and the suitable **Disaster Recovery (DR) strategy** is important towards effective utilization of the cloud.

- Prepared **Statement of work (SOW)**, **Service Level Agreement (SLA) policies**, architecture plan, cloud deployment run book, and user training plan to design a cloud infrastructure.
- Planned and executed the cloud deployment architecture for Software Development through **Amazon Route 53**, **Code Pipeline and Elastic Beanstalk**. Backup and archiving through **Amazon S3**. Email in the cloud through **Amazon Work mail**.
- Executed the advanced data protection through AWS backup. Securing data at rest through encryption with **AWS KMS**, **AWS Cloud trail**, and **AWS SNS**.
- Planned and executed the run book for configuration of AWS **S3**. Cloud synchronization is done through **NetApp Cloud Sync service**. Configuration and deployment for monitoring of the data is done through **AWS Cloud watch**.
- Planned and executed the configuration and deployment through **AWS Opswork stacks tool**, **chef cookbook**, and **recipes**.
- Planned and executed the migration of **MySQL**, **Aurora MySQL** database through the AWS Migration toolsets like **AWS Database Migration Service to AWS Relational Database Service**.
- Monitored the cloud environment and management through **AWS Trusted Advisor and AWS System Manager**.
- Planned and designed a template to automatically deploy **Jenkins** by performing prerequisites, launching the **EC2** instance to host the Jenkins Build server, Installation, and configuration of **Jenkins server** in AWS.
- Designed advanced data protection through **AWS backup**. Securing data at rest through encryption with **AWS KMS**, **AWS Cloud trail**, and **AWS SNS**. Advanced scaling and availability through **NetApp ONTAP** cloud deployment. Advanced resources monitoring and metering through **NetApp Cloud Insights** to get full visibility into entire infrastructure.
- Planned and deployed a comprehensive service catalog to launch product through **AWS Service Catalog** to build custom catalog of products from **AWS Market place**. Created an approval flow for an AWS Service Catalog product using **Amazon API gateway**, **AWS Lambda**, **AWS Cloud Formation**, and **AWS SNS**.