**Omolayo Ojo Tolulope**

**AWS Architect / Devops Engineer**

**Professional Summary:**

* Over 7+ years of professional experience in the areas of Cloud Computing, System Administration, Data Centre Operations, Software Configuration Management, Build and Release Management and Linux Administration.
* Experience in working with AWS Cloud administration which includes services like **EC2**, **VPC**, **ELB**, **S3**, **EBS**,**Elastic Beanstalk**, **AMI**, **SNS**, **RDS**, **DynamoDB**, **IAM**, **Route 53**, **Auto scaling**, **Lambda**, **Cloud Front**, **Cloud Watch**, **Cloud Trail**, **Cloud Formation** and **Security Groups**.
* Extensively worked with AWS for deploying EC2 instances consisting of various flavours like **Ubuntu server**, **Amazon Linux AMI**, **SUSE Linux**, **Red Hat Linux Enterprise**, **Microsoft Windows Server**.
* Hands - on experience on creating multiple AWS instances, **Elastic Load Balancer** and **Auto scaling** to design cost effective, fault tolerant and highly available systems.
* Good knowledge in **ARM** templates, automated **ARM** resource creations using **ARM** templates.
* Proficiency in OpenStack services such as **Horizon**, **Keystone**, **Nova**, **Neutron**, **Glance**, **Cinder**, **Ceilometer** and **Swift**.
* Ability to work with version control tools like **GIT**, **Team Foundation Server (TFS), Bitbucket** and **SVN** for branching and maintaining the version across the environments.
* Good knowledge on **Linux/Unix**, **Windows** System Administration and applying various DevOps techniques in mixed environments of Linux (**Ubuntu**, **Red Hat**, **CentOS**) and **Windows** servers.
* Strong knowledge in various strategies of **Continuous Integration and Continuous Delivery (CI/CD)** in the **Software Development Lifecycle (SDLC**).
* Experience in Virtualization technologies like **VMWare**, **Vagrant** and worked with containerizing applications like **Docker**, **Kubernetes**.
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker Hub, Docker Compose, Docker-registries** and **Kubernetes**.
* Extensive experience in creating various deployment strategies using **Jenkins/Hudson** for Continuous Integration and Continuous Delivery with remote execution providing zero downtime as well as shortening automated deployments.
* Highly experienced in working with tools like **Jenkins**, **Hudson, TeamCity** and **Bamboo** for Continuous integration and end to end automation for all build and deployments.
* Strong use of scripting languages like **Shell**, **Bash**, **Python**, **Ruby**, **PERL** and **PHP**.
* Process Automation expertise using scripting tools like **batch, PowerShell**.
* **PowerShell** setup and configure pull server, creating custom resources, working with various system modules and configuration.
* Extensive experience with Build automation tools like **ANT**, **MAVEN** and **Gradle** to build deployable artifacts (jar, war & ear) from source code.
* Deployed micro services, including provisioning AWS environments using **Ansible** Playbooks and provisioned load balancer, auto-scaling group and launch configuration for micro services using **Ansible**.
* Experience with setting up **Chef** Infra, Boot strapping nodes, creating and uploading recipes, node convergence in **Chef** SCM.
* Highly experienced in working with configuration management tool like **Puppet** that included the installation and configuration of the **Puppet master**, agent nodes and an admin control workstation.
* Hands-on experience in deploying developed **code in Apache Tomcat**, **JBOSS, Nginx, WebSphere Application Server (WAS), WebLogic.**
* Expertise in configuring the monitoring and alerting tools according to the requirement like AWS **CloudWatch**, **CloudTrail**, **Dynatrace**, **Nagios**, **Splunk Enterprise**, **Kibana**, **SNMP monitoring** for the VPN connections.
* Deep understanding of the principles and best practices of **Scrum**, **Agile**, **Kanban**, **Waterfall methodologies** and **Software Configuration Management** (SCM).
* Highly Experience on working with bug tracking tool like **Jira**, **Bugzilla**, **ClearQuest**.

**TECHNICAL SKILLS:**

**Cloud: Amazon AWS** (Computing Services, Storage Services, Database Services, Security, and Identity Services IAM, KMS, Networking Services, Management Tools)

**Operating Systems**: Red Hat Linux, Windows, CentOS

**Source code control tools**: GIT, GitHub

**Automation/Build Tools:** Jenkins, Chef, Ansible, Puppet

**Container Orchestration:** Kubernetes

**Container services:** Docker

**Web servers:** Apache Tomcat

**Databases:**SQL SERVER, MySQL, Amazon RDS, Amazon Aurora, Amazon Redshift, Amazon DynamoDB, NoSQL, and PostgreSQL

**Testing tools:** Junit

**PROFESSIONAL EXPERIENCE:**

**DevOps/AWS Solution Architect**

**Core sphere, Dallas, Texas**

**March 2019 to Present**

**Responsibilities:**

* Experienced Cloud and DevOps engineer in Automating, Configuring and deploying instances on AWS, AZURE Cloud environments and Data centres. Used Azure Express Route to set up a private connection to Microsoft cloud services such as a Microsoft Azure, Office 365.
* Experience creating cloud big data solutions such as HDInsight, Azure Data Warehouse, Azure Data Lake, Azure Data factory and Azure Analytics Services. Setting up Virtual networks for Site-to-Site, Point-to-Site and Express Route.
* Creating storage pool and stripping of disk for AZURE virtual machines. Worked with AZURE infrastructure management ( AZURE web roles, worker roles, SQL AZURE, AZURE AD licences). Virtual machine backup and recover from a recover services vault using Azure PowerShell and Portal.
* Migrated Terra test to Azure Terraform modules to automate infrastructure code verification and also created new Terraform module performance. Deployed Azure services using Terraform and implemented tests using Golang’s, Docker and Travis CI.
* Installation of different OpenShift environments in VMware v Cloud using Ansible playbooks, troubleshooting during the installation, configuration of DNS services, LDAP services.
* OpenShift Platform, support pushing their docker images into the registry, support creating Build Config and Deployment Config, creating services and routes.
* Experienced in using Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages. Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
* Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment.
* Expertise in configuring the monitoring and alerting tools according to the requirement like AWS Cloud Watch, AWS Cloud Trail, Dynatrace, Nagios, Splunk Enterprise, SNMP monitoring for the VPN connections.
* Created Chef Cookbooks and wrote recipes in Ruby Script to install and configured Infrastructure across environments and automated the process using Python Script. Experience working with Chef Enterprise and Chef Open Source, Chef DK, Chef Workstation, Chef Server, Chef-Client.
* Effectively leading towards building new framework of applications specifically targeted for evaluating and proving customer experience
* Architecting hybrid cloud framework to build solutions for supporting existing and new stack of applications
* Architected and engineered Kubernetes framework using Ansible with a stack compressive of AWS ELB, Istio, Envoy, Grafana by ensuring autoscaling with data persistence through ETCD on encrypted EBS volumes
* Architected and engineered various database frameworks. In-Memory Redis using AWS Elastic ache, NoSQL
* using Data stax Cassandra-Solar, AWS Cloud Search, MongoDB based on data characteristic
* Engineered and deployed automated pipeline for data warehouse solution using AWS Redshift, AWS S3, AWS Lambda, Apache Spark for loading data from different data stores
* Engineered and deployed pipeline for opensource R-Programming language on containerized framework
* Architected and implemented Serverless framework using FaaS i.e. AWS Lambda and additional components
* Implemented Key cloak, Identity and access management solution for applications with backend as Active
* Directory
* Implemented AWS Microsoft AD service to extend Active Directory from on-prem to cloud
* Implemented Spring Cloud Config to achieve dynamic configuration update for applications
* Implemented scalable, HA and data persistent ActiveMQ, RabbitMQ and SQS message brokers for a various

**DevOps /AWS Architect**

**Panera Bread, St. Louis, MO**

**January 2017 to February 2019**

**Responsibilities:**

* Implemented Large Scale Cloud Infrastructure using AWS services (S3, EC2, ELB, EBS, Route53, VPC, auto scaling etc.) and deployment services (Ops Works and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail) and services Lambda, EMR, RedShift, ECS, Elastic Bean Stalk, X-ray.
* Managed Elastic Cloud Computing (EC2) instances utilizing Auto scaling, Elastic Load balancing, and Glacier for our Dev and Test environments as well as infrastructure servers for GIT and CHEF.
* Migrated present Linux environment to AWS/CentOS/RHEL by creating and executing a migration plan per scheduled timeline to complete the migration.
* Worked on Terraform for managing the infrastructure through the terminal sessions and executing the scripts for creating alarms and notifications for EC2 instances using Cloud Watch.
* Deployed JSON template to create a stack in Cloud Formation which include services like Amazon EC2, Amazon S3, Amazon RDS, Amazon Elastic Load Balancing, Amazon VPC, SQS and other services of the AWS infrastructure.
* Created functions and assigned roles in AWS Lambda to run python scripts, Used AWS Lambda with java to perform event driven processing. Created Lambda jobs and configured Roles using AWS CLI.
* Used Lambda Functions Along with API gateway and DYNAMODB to effectively maintain server less Architecture. Used Lambda to trigger API CALLS for request processing.
* Used Route 53 to create Hosted Zones and different types of Record Sets, Routing Policies. And effectively handled data from different regions using load balancing and Route 53.
* Used Identify and Access Management (IAM) to assign roles and to create and manage AWS users and groups, and user permissions to AWS resources.
* Working with best DevOps practices using AWS, Elastic Bean stalk and Docker with Kubernetes. And Changed AWS infrastructure from Elastic Beanstalk to Docker and used Kubernetes for Orchestration.
* Maintained the repository management tools like Artifactory to store the WAR, JAR files which are deployed by using chef in Jenkins’s tool.
* Worked with development team to migrate Ant scripts to Maven. Implemented Maven builds to automate JAR and WAR. Developed build and deployed scripts using ANT and Maven as build tools in Jenkins to move from one environment to another environment.
* Installed and administrated GIT Source code tools and ensured the reliability of the application as well as designed the Branching strategies for GIT.
* Implemented AWS Microsoft AD service to extend Active Directory from on-prem to cloud
* Implemented Spring Cloud Config to achieve dynamic configuration update for applications
* Implemented scalable, HA and data persistent ActiveMQ, RabbitMQ and SQS message brokers for a various.

**Cloud Engineer**

**Amigo Energy, Houston, TX**

**October 2013 to December 2016**

**Responsibilities:**

* Worked as a DevOps Engineer for a team that involves three different development teams and multiple simultaneous software releases
* Developed and implemented software release management strategies for various applications according to agile process
* Created and implemented migration strategies of VMWare virtual machines to AWS
* Implemented parallel new cloud framework by deploying and monitored scalable infrastructure on Amazon web services (AWS)
* Leveraged AWS Cloud formation for infrastructure provisioning and management
* Assisted customers with common connectivity issues by reviewing subnet, security group, ACL, routing, VPN, ELB, Autoscaling, RDS and Deployment configurations
* Ensure impact of software releases to system performance and resource utilization of distributed and mainframe platforms are acceptable during load testing
* Doing capacity Assessment for new requests of servers i.e., calculating CPU and Memory for new servers according to the current/future Applications running on the system
* Leveraged Atlassian Bamboo with automation scripts to determine performance thresholds for provisioning VMs
* Deployed Java applications to application servers in agile continuous integration environment also automated the total process of application deployment
* Creating S3 buckets also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS
* Experience in creating alarms and notifications for EC2 instances using Cloud Watch
* Setup Elastic Load Balancer for distributing traffic among multiple WebLogic servers
* Monitoring and administering the automated build and performed continuous integration process to ensure correct build execution, and facilitate resolution of build failures
* Configured Git with Bamboo and schedule jobs using POLL SCM option
* Managed Nexus repositories to download the artifacts (JAR, WAR & EAR) during the build
* Writing Shell scripts to automate the deployment process
* Build scripts using ANT and Maven build tools in Jenkins to move from one environment to other environments
* Involved in setting up builds using Chef as a configuration management tool
* Manage the configurations of more than 40 servers using Chef, configured Bamboo builds for continuous integration and delivery. Automated web server content deployments via shell scripts
* Established Chef Best practices approach to system deployment with tools with Vagrant and managing Chef Cookbook as a unit of software deployment and independently version controlled
* Used Cookbooks, Recipes, Roles, Data-bags, Run-lists, etc. to deploy web applications into applications servers
* Migrated over 80% of VMWARE VMs to AWS and Managed Services like EC2, S3 Bucket, Route53, ELB, EBS etc. with Ansible Playbooks.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Automated deployment templates for relational and NoSQL databases in AWS. Deployed web applications and services developed in Java, PHP, Node.js, on web servers like Apache using AWS Beanstalk.
* Used BOTO for automating the process and terminating EC2 instances on Amazon AWS and cloud deployments.
* Created Micro services applications with integrations to AWS services by using Amazon EKS, while providing access to the full suite of Kubernetes functionality.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Support for all other AWS products such as RDS, Route53 (DNS), Cloud Trail, Elastic cache, Lambda and Amazon Kinesis.
* Designed and maintained AWS infrastructure highly available, scalable, secured, monitored and alerting network infrastructure.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch. Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Ansible.
* Collaborate in the automation of AWS infrastructure via terraform and Jenkins - software and services configuration via Ansible.
* Implanted a continuous Delivery pipeline with Docker, Jenkins and GitHub. Whenever a new GitHub branch gets started, Jenkins our continuous Integration server, automatically attempts to build a new Docker container from it.
* Built a new CI pipeline, Testing and deployment automation with Docker, Jenkins and Ansible. Integrating SonarQube in the CI pipeline for code coverage reports and sonar metrics. Integrating SonarQube in the CI pipeline to analyse code quality and obtain combined code coverage reports after performing static and dynamic analysis.
* Build and Maintained Docker container clusters managed by Kubernetes on GCP. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test, deploy.
* Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMWare VM's as required in the environment.

**Education:** Bachelors of Science