AB

* Experienced AWS DevOps/Cloud Engineer and Solutions Architect with 6+ years of experience in designing, implanting large-scale, highly available systems on AWS
* Designed highly available, cost-effective, and fault-tolerant systems using EC2 instances, Auto Scaling and Elastic Load Balancing
* Experienced in providing leadership, best practices, research and innovation within the DevOps Engineering domain, to drive optimal results in delivering software
* Leveraged API Gateway, SNS and SQS to build architecture models with synchronous and asynchronous patterns to decouple, integrate and scale services
* Utilized AWS Config and CloudTrail as part of the governance framework to enable compliance, auditing, troubleshooting, etc of AWS accounts and resources
* Collected and Analyzed metrics, logs, and events with Athena, QuickSight and CloudWatch Log Insights
* Experienced in Branching, Tagging, and maintaining the versions across different SCM tools like GitHub, Subversion (SVN) on Linux and Windows platforms.
* Optimized cost through a mixed of Reserved, Spot and On-Demand Instances, EC2 instance types, Auto Scaling and S3 storage classes
* Setup and configured systems for real time monitoring and alerts for log files, API calls and other events of importance
* Leveraged AWS IAM service to implement a strong identity foundation and enforced least privilege principle, credential management including STS and MFA
* Wrote and maintained custom scripts to increase system efficiency and performance time
* Classified and encrypted data with KMS, managed secrets with Secret Manager and Parameter Store
* Worked extensively on Jenkins to implement continuous integration (CI) and Continuous deployment (CD) processes.
* Customized images with docker server, docker compose with multiple local containers.
* Architected high availability environment with auto scaling & Elastic Load Balancer
* Implemented multiple container deployments to AWS and maintained sets of containers with deployments.
* Mentored team using strong communication skills and expertise and encouraged each member to bring forward robust ideas and suggestions for improvement within organization.
* Utilized AWS Config and CloudTrail as part of the governance framework to enable compliance, auditing, troubleshooting, etc. of AWS accounts and resources.
* Worked on migrating and re-platforming applications from AWS Cloud to Google Cloud Platform.
* Designed highly available, cost-effective, and fault-tolerant systems using EC2 instances, Auto Scaling and Elastic Load Balancing.

**Cloud Technologies:** AWS, Azure, Nutanix, Open Stack, GCP

**Containerization:** Kubernetes, Docker, Helm, Istio

**Provisioning:** Terraform, Cloud Formation, ARM

**CI/CD Tools:** Jenkins, Bit Bucket, Gitlab CI, AWS CodePipeline, Azure Pipeline

**Configuration Management:** Ansible, Rundeck, Vagrant, Nexus, Puppet, Chef

**Databases:** MySQL, RDS, MongoDB, PostgreSQL, Dynamo DB

**Operating Systems:** Ubuntu, Kali, CentOS, Fedora, RHEL, Windows, Windows Server

**Virtualization:** Virtual Box, VMware, Hyper-V, Vagrant

**Programming Languages:** C, Java, Python, GO, Bash Scripting, JSON, YAML. PowerShell

**Monitoring Tools:** Nagios, Centreon, AWS Cloud Watch, NewRelic, Prometheus, Dynatrace, ELK

**Networking:** Active Directory, Cisco Routers/Switches, DHCP, DNS, LDAP, FTP, Wireshark

**SKILLS**

**PROFESSIONAL ACCOMPLISHMENTS**

CLOUD DEVOPS ENGINEER

Arun B

**WORK HISTORY**

Southern University A&M College, Baton Rouge, Louisiana

***Cloud DevOps Engineer* | 08*/2021 – Current***

* Provided lectures to Undergraduate students in **Cyber Security with AWS Cloud Environment**, which include Sensitive Data Exposure, User Authentication, Malicious Input, Cryptography, **Social Engineering**, and Network Security.
* As an AWS Cloud Teaching Assistant, I thought a foundational course on Cloud Computing and AWS Service which Setup and build **AWS** infrastructure various resources like VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON template.
* Automated deployment and scaling of applications using **AWS Cloud Formation** AWS ECS, reducing deployment time by 50%.
* Experienced with **DevOps** methodologies and tools for automating systems processes
* Implemented CICD pipeline using **AWS Code Pipeline** and AWS Code Build which enhanced frequency of releases by 70%
* Reduced infrastructure costs by 30% by leveraging spot instances as well as reserved instances.
* Created Amazon machine images **(AMIs)** using Packer and took EBS volume snapshots at regular intervals to store the files in S3 buckets using **AWS Lambda** functions which provides a serverless environment.
* Created **AWS code Pipeline** for infrastructure automation using **AWS services like CloudFormation, Code Build, Code Deploy, S3, Lambda,** and other services of **AWS.**
* Implemented security best practices in AWS including multi-factor authentication, and role-based permissions, enforced strong password policy, and configured security groups and **NACLs, S3 bucket policies and ACLs.**
* Supervised undergraduate students to solve coding errors in Java lab and giving them **problem-solving skills** to write Java programs in **Linux environment**, and grading them in Final exam.
* Automated infrastructure activities like Continuous Deployment, Application server setup, stack monitoring using **Ansible playbooks** and integrate **Ansible** with **Rundeck and Jenkins.**
* Participated in **GENCYBER YOUTH CAMP** with **Python for Security** and helping the students how to secure their computers from attackers, writing simple Python programs to **encrypt and decrypt the messages.**

HIGHSYS – Paris, France

***Cloud DevOps Engineer | 03/2019 - 02/2021***

* Responsible for Provisioning Nutanix Cloud environment by writing Terraform templates with Linux CentOS servers and services involving Virtual Networks, VPC, Load Balancer, Auto Scaling, Security Group, IP Table, NAT rules.
* Implemented the infrastructure as code using Terraform across multiple services.
* Worked on creating Build and Deployment of CI/CD pipelines, managing projects often includes tracking multiple deployments across multiple pipeline stages (Dev, Test/QA staging and production).
* Troubleshoot application issues raised by DEV & QA Team and to make sure that application is always up & running.
* Developed, tested, and deployed Python-based applications in variety of cloud platforms.
* Experienced with Azure Cloud Services, Azure Virtual Machines, Azure storage.
* Designed and implemented highly available & disaster recovery solutions on AWS and azure.
* Implemented multi-cloud strategy utilizing services such as EC2, S3, and RDS.
* Automated infrastructure using Terraform while reducing deployment time by 80%.
* Wrote Puppet Yaml code to install the required applications like Apache, MySQL Database, Python, Nginx, and Servers provided by the Developer, and managed Puppet Agents & Databases.
* Test the puppet application code in the development environment using the Vagrant provisioning tool, and store the testing servers in an Open stack private cloud.
* Used GIT plugins in Jenkins to automate triggering builds for latest code commit in GIT and store the.jar. ear artifacts into the Nexus repository by writing the Shell/Groovy Scripts for Continuous Integration.
* Configured **Rundeck** as an **orchestration** tool to deploy those artifacts to desired environments with the help of **Bash scrips** at runtime, and scheduling jobs through **Cron** and **Rundeck** on the day of release and patching.
* Involved in working with Puppet and developed/managed **Puppet** manifest for automated deployment to various servers and managed **Puppet Agents & Databases**, and managed **Citrix Xen Server** and **Xen** desktop environment and **Bacula** backup environment.
* Installed, configured, and updated Linux machines, with **Red Hat, Debian**, and **CentOS**, and Rapid-provisioning and configuration management for CentOS using **Puppet**.
* Worked with **Nagios, Prometheus, and Centreon** tools to easily monitor applications, services, network protocols, and email monitoring, and for general disk space usage, conducting systems performance monitoring.

Vinfosoft Solutions – Hyderabad, India

***Cloud DevOps Engineer | 06/2015 - 01/2018***

* Set up and built **AWS infrastructure** with **Cloud Formation** for various resources involving **EC2, Route 53, S3, IAM, EBS, Security Group, Auto-Scaling, Cloud Front, RDS, VPC,** and **Lambda functions** in **Cloud Formation JSON templates.**
* Built and configured a **Virtual data center** in the **AWS** cloud to support Enterprise Datawarehouse hosting which includes, Virtual Private Cloud **(VPC),** Private and **Public Subnets, Security Groups, Route Tables, ELB, NAT**, and **NACL.**
* Virtualized the servers on **AWS using Docker**, created the **Docker files** and version control to achieve the **Continuous Delivery goal** on a highly scalable environment, and used Docker coupled with **load-balancing Nginx.**
* Used and Implemented **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions such as **ECS, EKS, ECR Registry.**
* Managed **Kubernetes** charts using **Helm**, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of **Helm** packages.
* Used **Terraform** to map more complex dependencies and identify network issues and worked with **Terraform** key features such as infrastructure as code, execution plans, resource graphs, and change automation.
* Installed, Configured, and automated the **Jenkins** build jobs for continuous integration and **AWS** deployment pipelines using various plugins like **Jenkins EC2** plug-in and **Jenkins Cloud** formation plugin.
* Managed services, maintaining and managing **log files, monitoring events, and logs**, and **troubleshooting** system problems using the **Nagios** tool and resolve for any reported issues.
* Wrote **bash shell scripts** for the automation of daily tasks and was involved in the development of automation scripting to deploy some applications, and **deploying, configuring**, and **maintaining** Windows/Linux server systems in the Cloud.

**CERTIFICATIONS**

**• Certified Kubernetes Administrator (CKA)**

**• AWS Solutions Architect Associate (AWS)**

**• Microsoft Certified Azure Administrator Associate (Az-104)**

**• Docker Essential Certified (IBM)**

**• SQL and Relational Database 101**

**EDUCATION**

**Southern University A&M College/Baton Rouge, Louisiana**

**Masters in computer science**

**EPITA University, Paris, France**

**Masters in computer science**

**JNTUH University, Hyderabad, India**

**Bachelors in computer science**