**Darshana Bada
AWS Cloud DevOps Engineer**+1 216-329-5865 | raviteja@iflexpro.com | US Permanent Resident

A result-oriented **Cloud Engineer** with 10 years of experience in assisting clients in defining the business case for cloud solutions, designing the solution to help with prototyping and development with a focus on DevOps, and take solution through to launch. I have a strong understanding on operations and development skills to deliver quickly, and I constantly strive to learn new technologies and find ways to better myself in this rapidly changing industry.

**Professional Summary**

* Expertise in AWS Cloud IaaS stage with components EC2, VPC, ELB, Auto-Scaling, Security Groups, Route53, IAM, EBS, AMI, RDS, S3, SNS, SQS, CloudWatch, Cloud Formation, Cloud Front, & Direct Connect and other services of AWS family.
* Managed Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Chef, Ansible, Ansible Tower. Designing cloud-hosted solutions, specific AWS product suite experience.
* Experienced Cloud and DevOps engineer in Automating, Configuring, and deploying instances on AWS, AZURE Cloud environments and Data centers.
* Hands-on Experience in configuration of Network architecture on AWS with VPC, Subnets, Internet gateway, NAT, Route table.
* Responsible for ensuring Systems & Network Security, maintaining performance and setting up monitoring using Cloud Watch and Nagios.
* Implemented a CI/CD pipeline with Docker, Jenkins, and GitHub by virtualizing the servers using Docker for the Dev and Test environments by achieving needs through configuring automation using Containerization.
* In-depth knowledge of computer applications and shell scripts (Bash), Python, PowerShell for automating tasks.
* Experienced in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like GIT and Subversion (SVN) on Linux platforms.
* Proficiency with Unix, RedHat/CentOS Linux systems.

**Technical Skills**

Operating Systems: Red hat, LINUX, and Windows

Scripting: Python3, PowerShell, Bash, JSON, Terraform

Cloud Platforms: AWS, AZURE

Database: SQL Server, DynamoDB, My SQL

Build Tools: Jenkins, Maven, Code Commit, Code Build, Code Deploy

Source Control Tools: SVN GIT, GIT Hub

Web Servers: Tomcat, IIS, Apache Web Server

Monitoring: CloudWatch, Splunk

Web Technologies: HTML, CSS, PHP

Automation Tools: Chef, Puppet, Cloud Formation, Ansible

Container Tools: Docker, Kubernetes

Methodologies: Agile (Scrum + XP)

**EXPERIENCE:**

**CIGNA, Connecticut**

**Senior AWS DevOps Engineer Aug 2022-Present**

**Responsibilities:**

* Designed and implemented scalable container orchestration solutions using Kubernetes on **Amazon EKS**, effectively managing containerized workloads and ensuring high availability.
* Implemented robust monitoring and logging solutions like AWS CloudWatch enabling real-time visibility into AWS Resources health, performance, and application metrics.
* Orchestrated and managed complex data workflows using **Amazon MWAA**, ensuring reliable and scalable execution of data pipelines and ETL processes.
* Integrated **MWAA** with AWS services such as Amazon **S3,** Amazon **RDS**, and Amazon **EMR** to seamlessly process and analyze large volumes of data with high throughput and low latency.
* Developed reusable Terraform modules and templates to automate the deployment of AWS infrastructure components, including EC2 instances, VPCs, subnets, **security groups**, and **IAM** policies.
* Conducted performance analysis and capacity planning using CloudWatch insights and logs, identifying trends and patterns to optimize resource utilization and cost efficiency.
* Integrated CloudWatch logs with **Splunk** for real-time monitoring, troubleshooting, and security analytics.
* Created and managed automated and manual snapshots of Amazon **RDS** database instances to establish point-in-time backups and restore points for disaster recovery and data retention purposes.
* Configured and managed Network Load Balancers (**NLB**), and Application Load Balancers (**ALB**) to distribute incoming traffic across backend instances and services using terraform.
* Implemented Terraform validation checks and automated tests within CI/CD workflows to verify syntax correctness, resource dependencies, and environmental constraints before applying changes to production environments
* Integrated load balancers with AWS services (**e.g., EC2, ECS, Lambda**) and third-party solutions to achieve high availability, fault tolerance, and scalability for distributed applications and microservices architectures.
* Utilized **Amazon Route 53** DNS service to configure domain names, aliases, and routing policies for API Gateway endpoints and custom domain mappings, enabling seamless access and discovery of APIs by clients and users.
* Contributed expertise in **AWS services**, infrastructure configurations, and troubleshooting techniques to diagnose root causes, identify mitigating actions, and restore service availability and performance.
* Integrated **AWS WAF** with Amazon CloudFront CDN (Content Delivery Network) and API Gateway caching layers to provide additional layers of protection and security at the edge, minimizing latency and improving application performance for global users.
* Implemented **API Gateway** security configurations, including endpoint policies, request validation, and authorization mechanisms, leveraging Terraforms declarative syntax and resource attributes to enforce security best practices and compliance requirements in multiple environments.
* Mentored junior team members and new hires on AWS troubleshooting methodologies, diagnostic tools, and escalation procedures to empower them to contribute effectively to incident resolution efforts.
* Configured load balancer listeners, target groups, health checks, and routing policies using Terraform modules and provider-specific attributes, ensuring optimal traffic distribution, high availability, and fault tolerance for application workloads.
* Integrated Jenkins with version control systems (**e.g., Git, GitHub**) to trigger automated builds and deployments based on code commits, pull requests, and release tags, facilitating collaborative development workflows and version control.
* Created structured and user-friendly **Confluence templates** and guidelines for documenting AWS resources, configurations, and troubleshooting steps, ensuring consistency and readability across documentation sets.
* Implemented VPC endpoints for AWS services (**e.g., S3, MWAA, EC2**) to enable private and direct access to AWS resources from within the VPC, bypassing the public internet and enhancing data security and compliance.
* Collaborated with cross-functional teams to troubleshoot and resolve connectivity issues, DNS resolution errors, and routing problems affecting VPC connectivity and application availability.

**Environment**: AWS, Kubernetes, Jenkins, Docker, Agile, Python, Maven, GIT, GITHUB, AWS EC2, Route 53, S3, VPC, Auto-Scaling, CloudTrail, security groups, ELB, ECS, Shell Scripts, Bash, MWAA, Splunk, MySQL, Unix/ Linux environment.

**Florida blue, Florida Aug 2020 – June2022**

**AWS Cloud DevOps Engineer**

**Responsibilities:**

* Worked at optimizing volumes and EC2 instances and created multiple VPC instances
* Used **Docker registry**, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Launching EC2 Cloud instances using Amazon images (**RHEL/UBUNTU**) AND configuring launched instances with respect to specific applications.
* Managing **AMI/snapshots/volumes**, upgrade/downgrade AWS resources like CPU memory, EBS.
* Experience with Azure Micro Services, Azure Functions and Azure solutions.
* Migrated applications from internal data center to AWS. Created **AWS S3 Buckets**, performed folder management in each bucket, managed cloud trail logs and objects within each bucket.
* Wrote Ansible playbooks to launch AWS instances and used Ansible to manage web applications, configuration files, used mount points and packages.
* Included **security groups , network ACLs , Internet Gateways** , and Elastic IP's to ensure a safe area for organization in  AWS  public cloud.
* Created IAM user accounts and role-based policies for access to AWS services.
* Deploying, managing, and operating scalable, highly available, and fault tolerant systems on AWS.
* Implemented CloudTrail to capture the events related to API calls made to AWS infrastructure.
* Automate the Build and Deploy of all internal Java &.Net environments using various continuous integration tools and scripting languages (**Python, Shell, PowerShell**).
* Created monitors, alarms, and notifications for EC2 hosts using Cloud watch.
* Hands on experience on building cloud infrastructure using **EC2,EKS, ASG, ELB, Route53, Dynamo and VPC** & provisioning tool along with Ansible.
* Monitoring the server alerts through Nagios, CloudTrail, CloudWatch and troubleshooting the alerts.
* Worked on various Azure services like Compute (Web Roles, Worker Roles), Azure Websites, Caching, **SQL Azure, NoSQL, Storage**, Network services, Azure Active Directory, Scheduling, Auto Scaling, and PowerShell Automation.
* Created CI/CD pipelines and setup auto trigger, auto build and auto deployment with the help of the CI/CD tool like Jenkins.
* Branching and merging code lines in the GIT and resolved all the conflicts raised during the merges.

**Environment**: Azure, AWS, Kubernetes, Chef, Puppet, Ansible, Jenkins, Docker, Agile, Python, Maven, GIT, GITLAB, AWS EC-2, Route 53, S3, VPC, Auto-Scaling, ELB, ELK, Tomcat, Shell Scripts, Bash, Ansible, MySQL, Unix/ Linux environment.

**Bank of America, New Jersey Oct2017 – Jul 2020**

**AWS Cloud Engineer**

**Responsibilities:**

* Deployed cloud platforms on Amazon web services using EC2 instances, S3, EBS, SQS and SNS services.
* Created scripts in Python (Boto) which integrated with Amazon API to control instance operations.
* Management and Administration of AWS Services **CLI, EC2, VPC , S3 , ELB Glacier,** Route 53 , CloudTrail , IAM , and Trusted Advisor services.
* Created automated pipelines in AWS Code Pipeline to deploy Docker containers in AWS ECS using services like CloudFormation, CodeBuild , Code Deploy , S3.
* Deployed serverless architectures using Lambda, EKS, Elastic beanstalk.
* Administered and supported SVN and GitHub Enterprise version control tool.
* Involved in designing and developing Amazon **EC2**, Amazon **S3**, Amazon **RDS**, Amazon **Elastic Load Balancing**, Amazon**SWF**, Amazon **SQS**, and other services of the AWS infrastructure.
* Experienced in Amazon EC2 setting up instances, virtual private cloud (VPCs), and security groups.
* Integrated Puppet deployment with GIT and GitHub with automated Jenkins.
* Managed Ubuntu Linux and Windows virtual servers on AWS **EC2 using Puppet**.
* Utilized Amazon **Route53**to manage DNS zones and also assign public DNS names to elastic load balancers IP’s.
* Efficiently worked on building the data centers using Amazon Web Service, installed images on Amazon web services using Jenkins, GIT.
* Collected and Analyzed metrics, logs, and events with **Athena, Quicksight** and Cloud watch Log insights
* Performed automated snapshots using CloudWatch rules and create EBS volumes from snapshots.
* Implement and maintain monitors, alarms, and notifications for EC2 instances using CloudWatch and SNS.
* Installed, configured, upgraded, and managed Puppet Master, Agents & Databases.
* Involved with configuration management and automation tools such as Chef, Ansible.
* Designed and deployed AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer**, Auto scaling groups, Opsworks.
* Created, maintained, and automated the scripts by using BASH, and python.

**Environment:** AWS, Chef, Puppet, Cloud formation, VPC, Cloud trail, Lambda, ELB, Athena, Docker, Agile, Maven, GIT, Shell Scripts, Bash, S3, RDS, Kinesis, OpsWorks, Linux, Puppet.

**PepsiCo, TX. Oct2015–Sep2017**

**DevOps Engineer.**

**Responsibilities:**

* Primary duties include in the release cycle of the product, which involves environments like Development, QA, UAT and Production.
* Good Experience in architecting and configuring secure cloud VPC using private and public networks through subnets in AWS.
* Worked with Subversion, GitHub for the purpose of Software Configuration management and maintaining the versions and creating Branching and Merging as per the schedule on GIT Hub
* Installing and configuring Jenkins, installing plug-in, configuring security, creating a master and slaves for implementation of multiple parallel builds.
* Used Puppet for automation and scheduling automated jobs.
* Set up Jenkins build jobs to provide one click deployments of the latest software build to WebSphere clusters for use by developers and support personnel. These were implemented using a combination of Jenkins configuration, BASH scripting.
* Build CI/CD Pipeline and managing the infrastructure as code using chef and puppet.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in current release, Defects fixed, Labels applied.
* Configured and maintained Bamboo to implement the CI process and integrated the tool with Ant, Gradle and Maven to schedule the builds.
* Worked with Logical Volume Management on Linux with LVM Knowledgeable in HTTP, HTTPS, SMTP, FTP, SFTP, DHCP, DNS, SNMP TCP/IP, UDP, ICMP, VPN protocols.

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| **GGK Technologies, India** | **Sep 2012 – July 2014** |
| **Jr. Front End UI Developer** |  |

* UI development with technologies like **HTML5, Bootstrap, jQuery.**
* Developed GUI using **JavaScript, HTML/HTML5, JSX, AJAX, CSS3, jQuery** for ongoing PHP based projects.
* Responsible for the architecture, design and development of high-volume web service applications.
* Developed user validation page with front end technologies like **HTML5, CSS3, JAVASCRIPT** using frameworks like **JQUERY.**
* Wrote services to store and retrieve user data from **MongoDB** for the application.
* Implemented and managed high availability and load balancing cluster of **MongoDB** having TBs of data.
* Collaborated with PHP backend team for WordPress applications.

**Environment :** HTML,CSS3,Bootstrap,Javscript,PHP,Mongodb

Education

Bachelors in ECE Engineering Osmania University, India Aug 2008 – May 2012