**Aishwarya V\_ DevOps/Cloud Engineer**

[Kiran@cognitivemindsinc.com](mailto:Kiran@cognitivemindsinc.com) **|| Mobile: (248)-757-0814.**

**PROFESSIONAL SUMMARY**:

* Around 10 Years of experience in IT industry as DevOps/ Agile operations, Linux Administrator, Systems Engineer, Build/Release Management, Change/Incident Management, Platform/Application Support and Site Reliability, Cloud Management.
* Experienced in all phases of the software development life-cycle with specific focus on the build and release of business workloads which include changes existing software and developing new software at on-premises, cloud and hybrid environments.
* Extensive experience includes version control, Change/Incident Management, related to in-house developed software’s and COTS products on VMware, AWS Cloud service provider.
* Configured and supported applications AWS Cloud administration which includes services like EC2, VPC, ELB, S3, Glacier, EBS, AMI, SNS, RDS, DynamoDB, IAM, Route 53, Auto scaling, Step-functions, ECS Fargate CloudFront, Cloud Watch, Cloud Trail, Cloud Formation and Security Groups.
* Implemented automation and reusable codes using Terraform, CloudFormation to deliver infrastructure as code (IAC) for AWS services (Example: EC2, S3, VPC, RDS, API, DynamoDB)
* Experience in setting up Devops pipeline to implement CI/CD using Jenkins, Maven, GIT, AWS Code Pipeline, Code Build, Code Deploy and Ansible.
* Experience in Containerizing and Orchestrating application using Docker and Kubernetes.
* Cognitive about designing, deploying and operating highly available, scalable and fault tolerant business workloads using Amazon Web Services (AWS) cloud services (e.g. AZ, Auto Scaling, managed Services).
* Experienced in creating IAM policies for AWS services, and cross accounts integration, experienced with AWS Cloud watch & Cloud Trail.
* Planned and Estimated delivery schedules and time lines by creating Level of Efforts, WBS, identifying stack holders, and executed complex technical projects at on-premises and cloud.
* Ability to work with different stack holders delivering successful results through efficient coordination, delegation, tracking and reporting.
* An effective team member with excellent interpersonal &problem-solving abilities, skills at handling multiple tasks and modules simultaneously.
* Possess high working qualities with good interpersonal skills, high motivation, fast learner, good team player and very proactive in problem solving to provide best solutions.
* Experienced with customer-facing roles related to automotive, banking, insurance, Germany, UK and Romania. Worked with customers from 6 different geographies and Product Owners
* Been part of the entire service delivery life cycle – transition, stabilization, operation, continuous improvement.

**EDUCATION& CERTIFICATIONS**

* AWS Certified Solutions Architect Associate
* ITIL® V3 Foundation Certificate in IT Service Management.

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **Operating Systems** | Linux (RHEL), Centos, Ubuntu, Unix, Windows |
| **Cloud Computing** | AWS (Amazon), Azure |
| **CI Tools** | Jenkins, Maven, GitLab, Jenkins Pipelines |
| **Configuration Mgmt.** | Chef, Puppet and Ansible. |
| **Provisioning/IAAC** | CloudFormation, Terraform, ARM |
| **CDN and Firewalls** | CloudFront. |
| **Monitoring** | Splunk, Nagios, CloudWatch |
| **Bug Tracking Tools** | JIRA, Remedy, ITSM. |
| **Version Control Tools** | GIT (GitHub), GitLab |
| **Languages/Scripting** | Bash/Shell, Python, YAML |
| **Databases** | MySQL, MongoDB, DynamoDB. |
| **Containerization** | Docker, ECS (AWS), EKS (AWS), Kubernetes Orchestrator. |

**PROFESSIONAL EXPERIENCE**:

**Client: Mass Mutual – Remote || Jan 2023 to Present**

**Role: Senior Cloud & DevOps Engineer**

**Responsibilities:**

* Build servers using AWS includes importing necessary volumes, launching EC2/ECS instances, S3 for object storage and Created Security Groups, AutoScaling, Load Balancer, Route 53 and SNS as per architecture using tools like Cloud formation/Terraform JSON Templates.
* Managed and deployed services in ECS Cluster.
* Worked on Multiple AWS services, EC2, IAM and Elastic Load Balancer, Autoscaling to design cost effective, fault tolerant and highly available systems, installing configuring and maintaining continuous integration, Automation and configuration management tools.
* Work with project managers, business analysts, and product owners for analyzing the business requirements and coming up with solution.
* Designed AWS Cloud Formation templates to create custom sized VPC, Subnets, NAT to ensure successful deployment of Web applications and database templates.
* Worked on Terraform script to make changes in architecture at the root level of the application that is deployed on the AWS Cloud platform.
* Created Task definitions and Services for Docker container deployment using ECS(Elastic Container Service)
* Created Docker file and automated docker image creation using Jenkins and Docker.
* Configured SNS topics and subscriptions to keep developers updated on the pipeline activities.
* Configured cross account access for AWS resources like S3, KMS, ECR, Lambda functions, CodePipeline.
* Scoped IAM permissions granularly for the specific resources concerning the security issues.
* Lambda functions in Python to automate the manual tasks.
* Used Shell scripting to implement branch modelling for initiating CodeBuild projects.
* Configured PagerDuty for alerts and notifications using AWS CloudWatch metrics.
* Investigated tools like GitGuardian, Snyk, and Pagerduty and created POC.
* Skilled in configuring, managing, and utilizing monitoring systems such as Prometheus, Grafana, and ELK to collect and analyze metrics, enabling incident resolution and troubleshooting to reduce mean time to recovery (MTTR) significantly. Proficient in utilizing these tools to identify trends, predict future issues, and take proactive measures to improve system availability and performance
* Integration and Continuous Deployment (CI/CD) pipeline for fast paced robust application development environment.
* Strong background in PCF platform upgrades and in automating PCF pipeline setup.
* Creating CI/CD pipelines by integrating various DevOps tools like GIT, Maven, Jenkins, Ansible, and Docker.
* Managing GIT user access on specific repositories and branches to secure our code.
* Configured and managed various AWS Services including EC2, RDS, VPC, S3, Glacier, Cloud Front, and Route 53.
* Configured AWS IAM and Security Groups in Public and Private Subnets in VPC Managed IAM accounts (with MFA) and IAM policies to meet security audit & compliance requirements and worked as Admin.
* Provided high durability of the available data using data storage in the AWS S3 bucket, versioning S3, lifecycle policies. Also, webhosting the data from the S3 bucket by creating URL's.

**Environment:** AWS, Kubernetes, Docker, Splunk, Jenkins, Terraform, GIT, Maven, UNIX, Ansible, Shell Script, Python, JIRA.

**Client: Mphasis/DXC Technology – Dallas, TX || July 2018 to Dec 2022**

**Role: Cloud & DevOps Engineer**

**Responsibilities:**

* Extensively worked with business analysts, and product owners for analyzing the business requirements and coming up with solution. Extensively worked on configuration and build management automation within the full AWS suite, specifically with EC2, Cloud Watch, ECS.
* Worked on Terraform script to make changes in architecture at the root level of the application that is deployed on the AWS Cloud platform. Worked on creating Lambda scripts for the automation using Python Boto3 like automating the rotation of access keys and tagging AWS resources, enabling logging and default encryption for S3 buckets etc.
* Experience in working with AWS Cloud administration which includes services like EC2, VPC, ELB, S3, Glacier, EBS, AMI, SNS, RDS, DynamoDB, IAM, Route 53, Auto scaling, Step-functions, ECS Fargate CloudFront, Cloud Watch, Cloud Trail, Cloud Formation and Security Groups.
* Provisioned and configured EKS cluster; Fargate profiles Provisioned and EFS, Metrics, Dashboards, and SNS.
* Designed AWS Cloud Formation templates to create custom sized VPC, Subnets, NAT to ensure successful deployment of Web applications and database templates.
* Used Monitoring and alerting tools like Nagios and Cloud-based site-availability solutions.
* Created Ansible playbooks for various automation purpose, file copy, permission changes, configuration changes, path specific folder creation.
* Using AWS Cloud Watch to collect and track metrics, log files, set alarms, and automatically detect changes across multiple AWS resources.
* Worked on Docker hub, creating Docker images and handling multiple images.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions using helm charts.
* Worked on design and implementing continuous integration system using Jenkins by creating Shell scripts
* Configured and maintained Jenkins to implement the CI process and integrated the tool with GIT and Maven to schedule the builds
* Worked on Jenkins file with multiple stages such as checkout a branch, building the application, testing.
* Implemented CI/CD pipelines by integrating various Devops tools like GIT, Maven, Jenkins, Ansible, and Docker.

**Technology:** AWS, GIT, Jenkins, Ansible, Docker, Kubernetes, Terraform

**Project: Liberty Mutual**

**Responsibilities:**

* Working on Azure platform for developing, building and deploying the applications.
* Worked on technical design and developed the application using Azure components such as Application Insights, Azure Active Directory, Power BI, Azure Functions, Azure Data factory, Azure SQL, Azure Storage accounts.
* Creating ARM (Azure Resource Manager) Templates which deploys Azure resources to cloud in different environments (Development, Testing, Staging and Production)
* Developed Azure Data Factory pipeline workflows to rapidly bulk-insert data from large BLOB files into a SQL Azure database
* Created Azure services using ARM templates (JSON) and ensured no changes in the present infrastructure while doing incremental deployment.
* Developed automation system using PowerShell scripts and JSON templates to remediate the Azure services
* Developing applications with Microsoft Azure Logic Apps.
* Customized Azure Application Insights for logging and analytics to view the logs and metrics.
* Developed Azure Functions to copy files from file server to Azure Storage and Azure SQL DB.
* Created complex Stored Procedures, Triggers, Tables, Views and SQL Joins and other statements to maintain referential integrity and implemented complex business logic.
* Creating ARM (Azure Resource Manager) Templates which deploys Azure resources to cloud in different environments (Development, Testing, Staging and Production)
* Creating PowerShell scripts to deploy using DevOps pipelines.
* Configuration of build pipelines to build applications using DevOps on hosted agent pools.
* Configuration of release pipelines in DevOps to deploy applications.
* Creating custom logging components to track real-time status and results of all load processes

**Technologies:** AWS, GIT, Jenkins, Ansible, Linux, Maven, Docker, Kubernetes, Terraform

**Project: CME Group**

**Responsibilities:**

* Performed software configuration/release management activities for Java applications.
* Designed and implemented Continuous Integration process using tools like Jenkins with approval from development and other affected teams. Defined processes to build and deliver software baselines for internal as well as external customers.
* Developed and implemented web application using python for database modelling and design.
* Developed automation framework for Application Deployments to the cloud environments.
* Worked on Migration and Managing the Private Cloud Environment using Chef.
* Performed Branching, Tagging, Release Activities on Version Control Tools: SVN, GIT, GitHub, clear case and eclipse using json files.
* Implemented AWS services EC2, Elastic load balancer, EBS, Elastic search, Auto scaling, Cloud Watch, SNS, Elastic Cache as part of cloud infrastructure.
* Developed Perl and shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Expertise on Installations, configuration, troubleshooting of app, Portal Server. Very good experience in Performance tuning on production and non-prod environment. Extensively involved in configure and installing Integrating tools on Apache server.
* Used Maven as build tool on Java projects for the development of build artifacts on the source code.
* Worked on hibernate framework for logical transaction on databases.
* Maintained and executed build scripts by coordinating with development and QA teams.
* Responsible in doing build and deploying on different environments simultaneously.
* Used Atlassian confluence to create notes, project plans and for file collaboration.
* Deployed the Enterprise and Web archives into Web Logic and Apache Servers.
* Configured and Maintained Apache web servers for Release Management Team's internal use.
* Worked on puppet enterprise which is an application release orchestration for environment management and release coordination.
* Monitor progression of releases and keep them on track for delivery on planned release date.
* Assemble Release Kit and complete all paperwork, including implementation/back out plans.
* Turnover documentation monitors status of actual production turnover.

**Technology:** Ant, Maven, Jenkins, Hudson, Hadoop cluster, hibernate, Chef, Puppet, clear case, Apache proxy, Eclipse, puppet enterprise, Python, AWS, Elasticsearch, Shell Scripts, GIT, SVN, json, API, Apache Webserver, JBoss, GIT, SVN.

**Client: Accenture, Florham Park, NJ || July 2015 to June 2018**

**Role: Sr Software Engineer (Build & Release)**

**Project: Citibank**

**Responsibilities:**

* Build, configuration, administration, and troubleshooting of the VPC networking in a cross-domain, including VPC peering, limits and pricing and architects within AWS cloud populated by infrastructure, platform, and application services that share common security and interconnection and AWS Lambda and AWS config.
* Performed the automation deployments using AWS by creating the IAMs and used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.
* Extensively used Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Experience with Docker for clustering and scheduling Docker containers to run and deploy the applications by Load Balancing and scaling containers in between nodes.
* Used Jenkins pipeline to provide API access to a private repo and deploy the artifact to EC2 instance. Integrated matrix Authorization Strategy plugin with Jenkins to specific permissions to Jenkins jobs.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Maven to schedule the builds.
* Worked on Docker container snapshots, removing images and managing Docker volumes and for branching purpose
* Provisioning and configuring the Docker containers and creating Docker files for different environments.
* Providing continuous improvement to agile software development teams by working with Jenkins under the CI/CD pipeline. Integrated Jenkins and JIRA and Used GIT with Jenkins to integrate to automate the code checkout process.
* Automated build and deployment process using Bash, Python, and Shell scripts with focus on DevOps tools, CI/CD in Jenkins and configured pom.xml files, performing releases with the Maven release plug-in, Mavenization of Java projects and managing Maven repositories.
* Used GitHub for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking and user management with build tools Maven and written Maven pom.xml build script.

**Technologies:** AWS, GIT, Jenkins, Ansible, Linux, Docker, Kubernetes

**Project: LTERM Applications, BMW**

**Responsibilities:**

* Created interactive and dynamic reports and dashboards based on requirement from client
* Received internal AWS training in transitioning to cloud base resources.
* Integrated Amazon Cloud Watch with Amazon EC2 instances for monitoring the log files and track metrics.
* Created AWS S3 buckets, performed folder management in each bucket, managed cloud trail logs and objects within each bucket.
* Created Highly Available Environments using Auto-Scaling, Load Balancers, and SQS.
* Defined branching, labeling, and merge strategies for all applications in GIT.
* Configured Elastic Load Balancers with EC2 Auto Scaling groups
* Experienced in S3 Versioning and lifecycle policies to and backup files and archive files in Glacier
* Experienced in Performance Tuning and Query Optimization in AWS Redshift.
* Configured AWS Identity Access Management (IAM) Group and users for improved login authentication.

**Technologies:** AWS Infra, Linux

**Client: Cybage Software– Pune, India || Jan 2014 to May 2015**

**Role: Build & Release Engineer /Linux Administrator**

**Responsibilities:**

* Install new and/or rebuild and maintain existing servers and configure VMware guests, clones, Guest moves and sets ON hardware, peripherals, services, disks, NICs, directories, storage, etc. in accordance with standards and project/operational requirements on VMware Clients.
* Involved in Building and configuring RedHat Linux Servers using Kick Start server as required for the project. Maintained maximum uptime and maximum performance capacity for enterprise production, QA and UAT/staging.
* Daily alert management for Solaris, Linux and AIX machines which typically include root, var, home and other Application FS issues.
* Create, maintain and execute all (ITSM) process management incident management & Change management with all business approvals. To ensure the service delivery under the ITSM framework Incident/ problem/ change management.
* Responsible for applying latest patches, user administration, kernel tuning parameters, file system space monitoring on Solaris systems. Worked on RAID creation and maintained redundancy.
* Adding storage to the cluster disks and increasing/ decreasing the file system in RHEL.