RAVI

AWS/Devops Cloud Engineer

Mobile: 972-480-6984

Email: Naveen.k@advithri.com



**Professional Summary**

* 10+ years of overall experience in IT.
* 8+ years of experience working as AWS/Devops Cloud Engineer in all stages including business development, project scoping, requirements definition, gap analysis, business process reengineering, issue resolution, configuration, custom code specifications, training, go-live assistance and post implementation support
* Designed, Configured, and managed public/private cloud infrastructures utilizing Amazon Web Services (AWS) including EC2, Auto-Scaling, AWS Config, AWS Elastic Bean Stalk Shield, Amazon Connect,WAF, ANF, KMS,Audit Manager, Cognito, Elastic Load Balancer, S3, Cloud Front, RDS, VPC, Route53, Cloud Watch, Cloud Formation, Cloud Front, IAM, Lambda, EBS, RDS, SNS, SQS.
* Providing Cloud based Solutions to the enterprises. Helped Initiate, Build, Foster & Nurture newer technology platforms & providing professional services & architecture guidance to the clients on technology, road mapping alignment & evangelizing newer technologies in creating industry aligned solutions
* Involved in Route 53, DNS failover and setting up Latency based routing, weighted routing policies and writing scripts using YAML.
* Experience using Terraform templates to deploy Infrastructure as Code in AWS.
* Experience in setting up one-click automation using a combination of Terraform templates and AWS Code Pipeline.
* Proficient in creating sustainable custom PowerShell functions to resolve issues with feature deprecations in AWS environments**.**
* Experience with creating IAM roles, IAM groups and writing SCPs and Permission boundaries.
* Experienced with deployments, maintenance and troubleshooting applications on Microsoft Cloud Infrastructure Azure.
* Strong knowledge of AWS Lambda, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), and Amazon Simple Workflow Service (Amazon SWF)
* Good experience on Terraform Enterprise and AWS Cloud Formation.
* In-Depth Knowledge with IAM principals (Users, Groups, Roles, Policies), Provided Delegation of Access between accounts using STS Assume Role Tokens Following hub and Spoke Model.
* IAC and orchestration - Terraform, Ansible and Puppet.
* Experience on configuration management tools in Puppet through installing Puppet master, agents, and pushing manifests for CI/CD by writing them from scratch.
* Experienced in container management using Docker and Kubernetes using Docker Engine, Docker Hub, and Amazon Elastic Kubernetes Service (EKS).
* Proficient with container systems like Docker and container orchestration like EC2 Container Service, Kubernetes, worked with Terraform.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Java Code deployments other Application Software’s Deployments by using Jenkins and with version controlling using GIT.
* Skilled in flexibly integrating Maven with GIT and developing pom.xml files as required by the project.
* Working in Major Clients Banking fanatical, insurance, health science, healthcare and retail and travel Domain – On premises to Cloud migrations done and implemented DevOps tools.
* Expertise in assessing the client’s current state and understanding the client’s vision to strategize and devise methods that enables clients with agility in their Cloud and DevOps Automation and operations, migrations.
* Logical thinker, strong communicator and quality driven leader with international experience and noted for engagements with Client and Business partners.
* Expertise in rendering automation solutions across clients involving Runbook Automation, Build Automation and CI/CD implementation and Automation.
* Experience with Subversion Control, Build, Configuration Management tools like GIT, MAVEN, DOCKER, ANSIBLE, and Integration & Monitoring tools like JENKINS in UNIX, Linux, and Windows Environment.
* Knowledge in Kafka for streaming real time feeds from external rest applications to Kafka topics.
* Experience with Tools like Jira, Confluence and Slack.

**Core Competencies**

**Amazon Web Services | IAM | Docker| Kubernetes | Ansible | Puppet|Amazon connect | YAML | Power Shell | Jira| Confluence| Slack| JENKINS |GIT HUB|DYNAMO DB|MAVEN |Splunk | Automation Tools**

**Professional Experience**

**T-Mobile, Bellevue, WA**

**Role: AWS Cloud Engineer**

**Responsibilities: Nov 2021 *– Present***

* Design and implement AWS cloud solutions with emphasis on delivering Infrastructure as Code (IAC) in a DevOps environment.
* Automate infrastructure provisioning on AWS using Terraform.
* Build CI/CD pipeline configurations to orchestrate provisioning and deployment of both large and small scale systems with Jenkins and GIT.
* Automate monitoring tools such as Amazon Cloud Watch to monitor system health and reliability to support high uptime requirements.
* Design AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Manage networking and security connectivity and access with VPC, LB, Route53, Security Groups configurations etc.
* Create and manage AWS Resources using Terraform and Ansible.
* Create and manage IAM user accounts and role based policies for access to AWS services.
* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise services.
* Implementing Terraform and Cloud formation templates as Infrastructure as a Code for Azure and AWS Public Cloud solutions for various use cases
* Responsible for deploying managed Kubernetes clusters in AWS using Amazon Elastic Kubernetes Service (EKS), creating EKS clusters in the AWS Management Console and utilizing infrastructure-as-code tools like AWS Cloud Formation or Terraform for efficient infrastructure provisioning.
* Configured and deployed Puppet Dashboard and Puppet DB for streamlined configuration management of infrastructure, ensuring efficient and standardized infrastructure configurations
* Utilized Ansible playbooks written in YAML to automate Kubernetes clusters, implementing tasks such as patching, software deployment, and configuration management for efficient cluster management.
* Involved in Real time processing and core jobs using Spark Streaming with Kafka as a data pipe line system.
* Developed CI/CD pipelines in AWS DevOps environments, identifying tasks and dependencies and creating multi-stage pipelines for seamless application release and deployment using AWS Code Pipeline and AWS Code Build.
* Manage services and resources systems with Systems Manager.
* Monitor AWS services with Cloud Watch and SNS notifications.
* Manage AWS service via Management Console and CLI.
* Successfully migrated data from on-premise SQL Database servers to Amazon RDS, ensuring seamless data transfer and efficient database management.
* Responsible for day to day operations including server builds, installation, configuration, and maintenance of systems.
* Provide 24/7 technical support on call rotation.

**ENVIRONMENT:** AWS IAM, EC2, S3, Cloud Watch, WAF, Cloud Front, VPC, Lambda, SNS, SQS, API Gateways, Terraform, Ansible, Splunk, Jira, Confluence, PowerShell,YAML, Dynamo DB,RDS.

**Centene Corporation-St. Louis, Missouri**

**Role: Senior Cloud Engineer**

**Responsibilities: Oct 2019- Oct 2021**

* Used Terraform to create and deploy AWS resources.
* Built and maintained highly available secure multi-zone AWS cloud infrastructure.
* Implemented and maintain monitoring alerts of production and corporate servers using AWS Cloud Watch.
* Created and modified infrastructure as code to deploy AWS environments.
* Created and launched EC2 instances using AMI’s of RHEL with shell scripts to bootstrap instance.
* Successfully migrated data from on-premise SQL Database servers to Amazon RDS, ensuring seamless data transfer and efficient database management.
* Involved in Amazon Connect migration for the customers contact center.
* Played a crucial role in the secure implementation of Amazon S3 using VPC endpoints, as well as the creation of Amazon S3 buckets for storing Cloud Formation templates and Amazon Dynamo DB as a managed No SQL
* Deployed, managed, and operated scalable, highly available, and fault tolerant systems.
* Responsible for design, systems management, patching, deployments, troubleshooting, and performance tuning for all Linux based operating systems.
* Perform weekly patching on servers with spacewalk.
* Provisioning AWS EC2 instances with Auto scaling groups, Load Balancers in a newly defined VPC and used Lambda Functions to trigger events in accordance to the requests for Dynamo Db.
* Utilized Ansible playbooks written in YAML to automate Kubernetes clusters, implementing tasks such as patching, software deployment, and configuration management for efficient cluster management
* Utilized Puppet for configuration management of hosted Instances within AWS.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, LDAP, VPN, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
* Exposed virtual machines and cloud services in the VNets to the internet using Azure External Load Balancer.
* Worked with Azure Active Directory.
* Migrated micro service-based applications from EC2 instances to Docker Containers and ECR, ensuring efficient and scalable application deployments.
* Implemented end-to-end automation and performed Maven Builds with continuous integration procedures in Jenkins, integrating Maven with Git for effective project management and deployment
* Automated routine activities and scheduled tasks using bash scripts.
* Worked on deployment of complex infrastructure using AWS CLI and AWS Console.
* Implement firewall rules for new servers to enable communication with applications.
* Implement and maintain monitors, alarms, and notifications for EC2 instances using Cloud Watch and SNS.
* Create low latency website using S3, Cloud Front, and Route53.

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**ENVIRONMENT:** EC2, S3, AWS IAM, Step Functions, Lambda Functions, MySQL, Code Commit, Code Deploy, Code Pipeline, Power Shell, YAML, Java.

**Humana, Chicago**

**Role: AWS Cloud Engineer**

**Responsibilities: Sep 2018-Oct 201**

* Automated Pipeline of Role Creation that are used as Service Roles for Cross-Account access.
* Automated Lambda Functions using Python that can Fetch AWS Services, Actions from AWS Web pages and Create Policy templates to use as part of the Pipeline.
* Created Step Functions as part of Role Automation to Read JIRA Input and Fetch Pre-Generated Policies from S3 bucket.
* Created JIRA Page that is used a Frontend page for requesting Role Creation. This Page helps users to raise tickets and initiate the role Creation Pipeline once Ticket is submitted.
* Automated fetching of IAM policies and JIRA Input from user using Lambda functions and Step Functions.
* On-boarding new users with MFA and access policy.
* Implemented Service Control Polices to enforce Least Privilege on Identities and Control Tower is used to automate Creation of Landing Zone and Child Accounts
* Automated CI/CD pipeline using Code Commit, Code Build, Code Deploy and Code Pipeline. This pipeline will initiate Creation of Role when users submits role JIRA Ticket.
* Created MySQL Database tables that are used as JIRA Backend to fetch the AWS Services, App ID’s, and AWS Account Numbers.
* Created Role’s using the Pre-Generated IAM Policy Templates based on the JIRA Input.
* Configured Cloud Watch to monitor the Role creation and alerts whenever a new role is created.
* Used AWS Config to implement Custom and Pre-defined Rules to Achieve Data Privacy and Remediate on Critical issues that are observed.
* Created Cloud Formation Stack’s based on JIRA Input and Pre-Generated Policies that are used for Role creation and This Stacks will be used for Future Role Provision Comparison.
* Created pipelines in AWS by using AWS service Code pipeline for automation from development to deployment process and used ELB, security groups, Network Access control lists (NACL), NAT Instance and Route 53.
* Build and managed policies for S3 buckets and used S3 buckets for storage and backup on AWS and encrypted S3 buckets for all Cloud Trail logs encrypted and policies to access the logs.
* Defined AWS Security services as virtual firewalls to control the traffic on EC2 instances for a multitude of applications utilizing the Amazon Web Services focusing on high-availability, Fault Tolerance, and auto-scaling.
* Created alarms, monitored, and collected log files on AWS resources using Cloud Watch on EC2 instance which generates an email and text notification using Simple Notification Service.
* Designed Terraform templates to create custom-sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates and migration from traditional to cloud environment.

**ENVIRONMENT:** AWS IAM, EC2, S3, Cloud Watch, WAF, Cloud Front, VPC, Lambda, SNS, SQS, API Gateways, Terraform, Splunk, Jira, Confluence.

**Kaizen Globe, India**

**Role: Cloud Engineer**

**Responsibilities *May 2016 – Aug 2018***

* + - Developed, debugged, and tested **Shell** scripts to automate the creation of **AWS API** Gateway and deploy the **lambda** functions, reducing the man hours of this process by 75% and increasing the accuracy significantly.
    - Worked on Amazon **AWS** tools and assisted in building the infrastructure for various web applications, assisting with documentation and **security assessment**.
    - Experience in creating User/Group Accounts and attaching policies to User/Group Accounts using **AWS IAM** services.
    - Setting up databases in **AWS** using **RDS**, storage using **S3 bucket**, and configuring instance backups to **S3 bucket**.
    - Orchestrated provisioning, monitoring, dynamic configuration, load balancing, and optimization of servers in a cloud environment.
    - Created **terraform** templates for provisioning virtual networks, VM Scale sets, Load balancers, and **NAT** rules and used **terraform**graph to visualize execution plan using the graph command. Used Terraform to deploy the infrastructure necessary to create development, test, and production environment for software development projects.
    - Maintained and fixed bugs for existing applications and infrastructure.
    - Build **CI/CD** pipelines with **Jenkins**, and **Maven** and use **Git** as source code version control.
    - Familiarized with **Docker** and **Kubernetes**.
    - Experience in using configuration management tools like **Ansible**.
    - Used **JIRA** to assign tickets, updated the status, and the story of the tickets as per the sprint setup, and relied upon Confluence for documenting the progress of Projects and Sprints.

**Environment:** AWS, Ansible, Git, Docker, Java, shell scripting, JIRA, Jenkins,Maven.

**HSBC, India**

**Role: Devops Engineer**

**Responsibilities: *May 2013 – May 2016***

* Design and deploy various applications using a wide range of AWS services
* Assess tools and processes, and create strategic plans and roadmaps for IT strategies
* Utilize AWS OpsWorks to automate system configuration, deployment, scaling, and monitoring
* Maintain rapid and fluid deployment of infrastructure using Cloud Formation templates, and author templates to describe infrastructure to be deployed
* Configure CI/CD tools like Jenkins, Maven, Ant, and GitHub repository to ensure smooth build processes
* Work with GitHub private repositories and integrate them into Jenkins for seamless automation
* Configure Chef into the environment to quickly deploy and maintain environments such as Apache configurations and file level permissions
* Create and maintain Jenkins jobs that execute Shell scripts for automation purposes
* Verify that the methods used to create and recreate software builds are consistent and repeatable
* Conduct research on project application architecture to support and resolve build, compile, and test issues and problems
* Release code to testing regions or staging areas according to published schedules
* Develop Shell/Perl scripts for automation purposes
* Resolve merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads
* Design and deploy best SCM processes and procedures
* Maintain and coordinate environment configuration, controls, code integrity, and code conflict resolution
* Design a CM solution that uses Clear Case UCM integrated with Rational Clear Quest
* Perform user administration and support team for parallel developmentWrote Shell/Perl/Ant files to automate certain processes for the smooth process of use of build tools like Build Forge.

**Environment:**  EC2Instances, VPC, ELB, Auto scaling, Cloud Formation, MYSQL, S3, SNS, Jenkins, GIT, GitHub, Maven, Ant, Chef, Cloud Watch, Shell script.