

Hardik Nagendrakumar Madda

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Career objective:

To work in an organization where I can fully utilize my technical skills and make a significant contribution to the success of the company while maintaining healthy team relationships and growing technical expertise.

Work Experience:

More than 3+ years of professional experience as Cloud DevOps Engineer in AWS cloud domain with hands-on implementation and demonstration knowledge of AWS Administration and DevOps.

Project Experience: Oct-2020-Present-FutureFold Software Pvt Ltd.

Project 1: Cloud Operations

Role: AWS Administrator

Environment: AWS EC2, S3, IAM, VPC, CloudWatch, CloudTrail, Linux

Project Description: Administration of existing resources in the AWS, design and implementation of scalable application on AWS cloud.

Responsibilities:

- Hands on experience on working with various AWS, Azure services as Cloud DevOps Engineer in building, deploying, releasing, automating and managing code as per application requirement.
- Working on Amazon Web Services (EC2, ELB, VPC, S3, IAM, RDS, CloudWatch, Cloud Trail, SSM) providing best practices recommendations on the current cloud environment.
- Creation of Virtual Private Cloud with public, private subnets, VPC endpoints in AWS for S3 and deploying resources within VPC.
- Querying Cloudtrail logs using Athena to find account information insights
- Experience in setting up launch configurations, auto scaling, load Balancers to provide high availability to EC2 instances.
- Configuring Bastion hosts/jump servers in public subnets to enable SSH connection from private subnet servers.
- Managing IAM service to administer AWS resources effective creation of user accounts, assign granular access permissions.
- IAM federation for creating roles, users, groups and also implemented MFA to provide additional security to AWS account and its resources.
- AWS System Manager for centralized management of EC2 instances.
- Responsible for implementation and ongoing administration of AWS services.
- Configure the data Lifecycle Manager Policy for EBS volume for snapshot creation.
- Configuring Cloudwatch alarms and metrics for various resources for success/failure scenarios to enable graphical metrics in Cloudwatch dashboard.
- Identify and troubleshoot issues in AWS and prevent recurrence.

- Setup custom alert notifications using serverless services like EventBridge, Lambda, SNS.
- Configured S3 buckets for cross region replication.
- Utilize cloud platform like AWS for scalable infrastructure.
- Using security groups, network ACL's, internet gateways and route tables to ensure a secure zone for organization in AWS cloud.

Project 2: DevOps

Role: Cloud DevOps Engineer

Environment: Jenkins, Terraform, Git, boto3, Lambda, Docker, Kubernetes, Ansible, Python

Project Description and Responsibilities:

- Provisioning infrastructure on AWS cloud using IaC tool as Terraform as per SDLC environment.
- Infrastructure provisioning of networking resources using Terraform.
- Good understanding of Azure resources, creation of ARM templates, Azure boards, Azure repos, Virtual machines using Terraform.
- IaC Automation of Application Infra Creation using Jenkins.
- Dockerizing applications for automating and resource efficiency.
- Writing Docker compose files for multi service container execution.
- Good knowledge in working with Docker build and deployment using Dockerfile.
- Managing Docker image creation pipelines for docker image push in Dockerhub registry/AWS ECR.
- Good understanding of Kubernetes architecture and its deployment in Kubernetes cluster.
- Creation and managing multiple Kubernetes EKS clusters using IaC framework.
- Writing YAML manifest files for deployments in Kubernetes.
- Leveraging compute platforms such as AWS Lambda, boto3 for server less performance and cost optimization.
- Setting up events in Cloudwatch and sending alert notifications on various events as a custom readable notification using AWS Lambda, boto3 and SNS.
- Automation of manual processes using shell scripts for logging and pushing logs to centralized repositories for review.
- Implementing and following best GitOps practices for merging, branching, tagging, code review and PR of source code in version control system in Git/Codecommit.
- Managing release management using Git branching and merging strategy.
- Automation of deployment of applications using Github.
- Following best practices in source control system like Github/CodeCommit to enable DevOps culture.
- Setting up Azure Devops CICD pipelines and managing them for multiple environment use cases.
- Establishing and managing CICD pipelines in Jenkins. Management of user and group with Jenkins roles. Setup and configuration of Jenkins.
- Creating Jenkins pipeline jobs for automating application deployment.
- Installation and configuration of Jenkins.
- User and group creation, management with Jenkins roles.
- Building Maven application and deploying it on Tomcat server with semantic versioning, rolling back builds, unit testing in Jenkins.
- Documenting technical use cases in Jenkins.

- Using Jenkins credentials for storing sensitive information and using AWS Secrets Manager to store and retrieve database login credentials.
- Deploying and pushing artifacts for reusability in different environments in DockerHub registry/AWS ECR.
- Configuring and managing Ansible on multiple servers.
- Good understanding of ticketing tools and processes such as JIRA.
- Documenting technical issues using Confluence for ease of access and RCA analysis.
- Proficient in handling technical support operations, troubleshooting issues and find out root cause of problem. Implementing best DevOps practices to resolve technical issues.
- Automating the manual process if any, by writing shell scripts.

July-18-Dec-19- CS-Associate, Amazon Development Pvt Ltd.

Responsibilities:

- Troubleshooting accounts of customers related to software of Prime Video, Kindle, Twitch, etc.
- Managing, investigating risks based on customers trends on payment accounts of customers
- Ticketing, filling tickets, adding correspondence on behalf of customers and resolving technical issues.
- Handling, deleting customer's accounts on violation of policies of Amazon.
- Collecting data and uploading on portals internally based on customers abusive trends.
- Resolving escalations on SLAs and handling it.
- Helping customers and providing self-informative SOP's on how to resolve technical glitches in their accounts.

Academic Background:

Bachelors in Mechanical Engineering - 2018

Technical Skills:

- Operating systems: Amazon linux, Ubuntu, RHEL
- Scripting language: Bash, Python, boto3
- AWS services: EC2, VPC, IAM, Cloudtrail, Cloudwatch, API gateway, Lex, Cognito, SSO, SSM, Athena, Lambda, SNS, EKS, Transcribe, Comprehend, S3, ECR, ELB.
- Azure services: Virtual machines, Azure Devops, Azure teams, Azure Repos, Azure Boards, ARM templates
- Database: RDS, DynamoDb, MySQL
- DevOps tools: AWS CICD, Jenkins, Ansible, Kubernetes, Terraform, Linux, Docker
- Ticketing tools: Jira, Confluence

Additional skills:

- Writing and publishing blogs on public platform like medium.com
- Actively participation in online AWS conferences like AWS Innovate
- Completed certification by Cognizant on [Agile Methodology](#)

- IBM cloud certification on [Docker Essentials: A Developer Introduction](#)
- IBM cloud certification on [Containers and Kubernetes Essentials](#)
- CISCO Networking Academy certification on [Introduction to Cybersecurity](#)
- CISCO Networking Academy certification on [Cyber Threat Management](#)
- Published technical blog on AWS's official Dev community on [Finding Unused Elastic IP's](#)
- Published theoretical blog on AWS cloud on [LinkedIn](#)
- Active member of AWS community group Pune

Personal details:

Date of Birth : 06 April 1996
Nationality : Indian
Contact no : 9881338186
Languages Known : English, Hindi, Marathi, German(B1) and Telugu
Place : Pune