Madhuran K

Cloud & DevOps Engineer
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Career Objective

Cloud & DevOps trainee skilled in AWS, Azure, Linux, Docker, Jenkins, Kubernetes, and automation. Seeking an entry-level Cloud/DevOps role to support deployments and improve infrastructure reliability.

Technical Skills

Cloud: AWS (EC2, S3, IAM, VPC, ELB/ALB, EKS, Route53, Auto Scaling CloudWatch), Azure VMs, VNets, NSG, Azure Monitor
DevOps: Git, GitHub, Jenkins(CI/CD), Docker, Kubernetes (Basics), Terraform, CloudFormation
Linux: User management, permissions, Apache, SSH, networking, shell scripting
Networking (CCNA): OSI & TCP/IP models, subnetting, VLSM, ACL, NAT, STP
Python: boto3 automation, file handling, monitoring scripts
Tools: Git, Jenkins, Docker, Ansible, Terraform, Linux, AWS CLI,AWS ,Azure, Tomcat

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Projects

1.DevOps Automated Cloud-Native CI/CD Pipeline for Scalable Web Applications

Automated Cloud-Native CI/CD Pipeline for Scalable Web Applications

- Implemented event-driven CI/CD using GitHub Webhooks to automatically trigger Jenkins pipelines on every code commit

- Developed Jenkins Pipeline as Code (Jenkinsfile) to automate build, test, and deployment workflows

- Built Docker images directly from Dockerfile stored in the source repository and pushed versioned images to Docker Hub

- Deployed containerized applications on Kubernetes with rolling updates and self-healing capabilities

- Provisioned and configured AWS infrastructure including EC2, IAM, VPC, and Security Groups for a production-like environment

- Integrated Prometheus and Grafana for real-time metrics collection, dashboards

2. Scalable Web App Deployment on AWS using Terraform, Jenkins & Ansible (CI/CD + IaC)

- Used GitHub for source control and triggered Jenkins on EC2-Server-1 to pull application code and build a WAR artifact.

- Executed Terraform from EC2-Server-1 to provision AWS infrastructure — VPC, subnets, EC2 instances, Load Balancer, and Security Groups.

- Configured EC2-Server-2 as an Ansible control node and transferred the WAR output from Jenkins.

- Ran Ansible playbooks from EC2-Server-2 to configure provisioned EC2 instances and deploy the application automatically.

- Delivered a complete CI/CD pipeline achieving automated build, infra provisioning, configuration, and deployment with minimal manual intervention.

3. AWS 3-Tier Web Application Architecture

Designed a scalable and secure 3-tier architecture on AWS.

- Web, App, and DB tier segmentation using VPC subnets.

- Auto Scaling Groups + ALB for high availability.

- Bastion Host & NAT Gateway for secure access.

- RDS multi-AZ for database replication.

4. AWS Automation Using Python (Boto3)

Automated cloud tasks using Python.

- Developed AWS automation scripts using **Python (Boto3)** to manage cloud resources efficiently

- Configured and used a dedicated **IAM user with programmatic access** for secure automation

- Set up **AWS CLI on the local command prompt** and authenticated using IAM access keys

- Automated **Amazon S3 bucket creation, object uploads, and logging operations** through Python scripts

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Education

B.Sc. Computer Science — Manonmaniam Sundaranar University (2022–2025) | *80%*
Diploma in Mechanical Engineering — Chandy Polytechnic College (2018–2020) | *76%*

Certifications

- **Besant Technologies:** AWS-Azure Cloud, Linux Administration, CCNA Networking, DevOps, Python

- **Unxt Udhyogam:** Soft Skills & Communication Training