Dipesh Mandal

Cloud and DevOps

Jaipur - 302022 | +91 8619863554 | **dipesh1357m@gmail.com**

Proficient in Cloud Computing, DevOps & SDLC including analysis, coding, scripting, troubleshooting, testing, automation, version control, and support.

Work Experience

Process Associate

Phoenix Advanced Software Pvt. Ltd, Jaipur

Sep 2021 - May 2023

- **Provisioned AWS EC2 instances** for campaigns like Norton and McAfee, leveraging **AWS CloudWatch** for real-time system monitoring and **predictive analysis** to enhance performance and reliability.
- **Implemented S3** for secure and scalable file storage solutions, reducing **operational overhead by 20%** and ensuring high data availability.
- **Optimized Linux server configurations** and resolved performance issues to maintain **high availability** and **minimize** downtime.
- **Automated** routine administrative tasks to reduce human errors, streamline workflows, and boost operational efficiency across systems.

Projects

AWS 3-Tier Architecture Deployment | **Link**

Jan13 - present

- Designed and deployed a 3-tier architecture on AWS using **VPC, EC2, RDS**, and **S3** for scalable and reliable web, application, and database tiers.
- Configured **Route 53** for **DNS** management and integrated AWS Certificate Manager to provide SSL for secure communication.
- Achieved fault tolerance and high availability with **multi-AZ deployments**, ensuring system reliability and optimized performance.

End-to-End DevOps Pipeline for Zomato Application | **Link**

Dec10 - present

- Implemented a DevOps pipeline with **Jenkins**, integrating **SonarQube**, **OWASP**, and **Trivy** for automated quality and security checks.
- **Achieved 99% deployment** success rate by managing **30+ containerized** applications on **Docker** and Amazon **EKS**, using **ArgoCD** for continuous delivery.
- Built a monitoring stack with Prometheus, Grafana, and Node Exporter, improving system performance analysis by **40%.**

Developed a Cloud Native Monitoring Application using Flask, Boto3, Docker, ECR, and EKS Deployment | **Link**

Nov5 - present

- **Built a Flask app** to monitor **CPU** and **memory** usage, containerized with **Docker**, and deployed on **AWS EKS**.
- **Automated** resource provisioning with **Boto3** and optimized **workload scaling**.

Design and Manage infrastructure with Terraform while automating deployment workflows using GitHub Actions | **Link**

Oct21 - present

- Automated AWS resource provisioning (VPC, EC2, ALB) with Terraform.
- Deployed fault-tolerant EC2 instances across multiple AZs.
- Implemented end-to-end CI/CD automation using GitHub Actions for **100%** efficiency.

Contribution

GitHub | **linkedin** | **Portfolio**

Technical Skills

- AWS and Azure
- Jenkins
- Docker
- Kubernetes
- Ansible
- YAML
- Terraform
- Bash Scripting
- Python and BOTO
- Trivy
- OWASP
- Helm Chart
- Jira
- Grafana
- Prometheus
- Maven
- SonarQube
- Git and GitHub
- PostgreSQL
- RHEL, Ubuntu, CentOS

Education

B.Tech in Computer Science

Rajdhani Engineering College, Jaipur

2021 - 2025 | CGPA - 7.89

Diploma in Computer Science

Shekhawati Group of Institutions, Sikar

2018 - 2021 | CGPA - 7.45

Certification

AWS Cloud Practitioner | **Link**

AWS Solution Architect Associate | **Link**

Achievement

- Executed a Kubernetes cluster on **AWS EKS**, improving scalability and reducing application downtime by **30%.**
- **Migrated** on-prem infrastructure to AWS, **reducing operational costs** by **25%.**
- Optimized **CI/CD** pipelines, improving deployment times by **30%.**