

VIREN LAHAMAGE

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Professional Summary

Enthusiastic engineer with practical experience in automation and cloud computing, leveraging a strong understanding of infrastructure and deployment processes. Focused on building scalable and secure solutions. Dedicated to continuous learning, professional growth, and contributing effectively to team success.

Education

Nutan Maharashtra Institute of Engineering and Technology

Aug 2020 – Jun 2024

Bachelor of Computer Engineering

Pune, Maharashtra

CGPA: 8.85/10

Experience

Aurochs Software

Sept 2024 – Present

DevOps Associate

Pune, Maharashtra

- Developed Python-based automation scripts, reducing manual tasks by 25% and improving operational efficiency.
- Implemented FRPC to enable secure remote access to virtual machines without exposing public endpoints.
- Coordinated end-to-end VAPT (Vulnerability Assessment and Penetration Testing) activities by tracking and resolving identified security issues to ensure application security and compliance.
- Managed end-to-end database migration activities, ensuring data integrity, minimal downtime, and successful post-migration validation.
- Performed BCP/DR activities for multiple clients, ensuring system availability, failover readiness, and backup validation.
- Optimized AWS spending through systematic resource cleanup with CleanCloud and strategic utilization of Reserved and Spot Instances.

Mactores

May 2024 – Aug 2024

DevOps Intern

Mumbai, Maharashtra

- Contributed to the development of scripts and tools for automating deployment, configuration, and monitoring.
- Monitored CI/CD pipeline builds and assisted in resolving build failures.
- Created and maintained deployment and configuration documentation for internal reference.

Projects

AWS IAM Key Rotation Automation | AWS Lambda, CloudWatch Event, Python (Boto3)

- Automated IAM key rotation, reducing manual effort and improving security compliance by 80%, with seamless integration across Jenkins, Airflow, and Unix servers, achieving 100% compliance with security policies.

Secure Multi-Tier AWS Production Environment (Dockerized) | EC2, Docker, ALB, RDS, EFS, Secrets Manager

- Built a secure multi-tier architecture in a dedicated VPC on AWS with separate production and development environments.
- Dockerized the application and stored images in private Amazon Elastic Container Registry (ECR).
- Deployed containers on Amazon EC2 behind an Application Load Balancer with HTTPS via AWS Certificate Manager.
- Integrated Amazon RDS (MySQL), Amazon Elastic File System for shared storage, and secured credentials using AWS Secrets Manager.

Multi-Environment Container Deployment Pipeline on AWS ECS | Jenkins, Docker, ECR, AWS ECS (Fargate)

- Designed and implemented a parameterized CI/CD pipeline in Jenkins with dynamic Git branch selection using Active Choice Plugin, enabling controlled multi-environment deployments.
- Built and versioned Docker images, pushed them to Amazon ECR, and configured ECS Fargate services to perform controlled rolling deployments.
- Enhanced deployment security by enabling ECR image vulnerability scanning and ensuring secure, repeatable container rollouts.

Technical Skills

- **Cloud Platforms:** Amazon Web Services (AWS), Azure, Aviatrix
- **Programming Languages/Scripting:** Python, Bash/Shell Scripting, Groovy
- **Monitoring Tools:** CloudWatch, Prometheus, Grafana
- **DevOps Tools:** Jenkins, Docker, Kubernetes, Helm, ArgoCD, Terraform, Ansible, Chef
- **Technologies/Frameworks:** Linux, Git/GitHub