Mahesh Srinivasan

DevOps Engineer | Cloud & Automation Specialist

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🌐 Portfolio: mahesh-vulnsecure.github.io/portfolio/

Summary

Results-driven DevOps Engineer with 3+ years of expertise in cloud infrastructure, automation, and system optimization. Proven track record of designing scalable, secure, and high-performance environments. Adept at implementing CI/CD pipelines, infrastructure as code, and containerization to streamline workflows and reduce operational costs.

Professional Experience

Nura Analytix LLP (Datacrew.ai)

DevOps Engineer | *Sep 2024 – Mar 2025* | Chennai, India

- Architect and automate cloud infrastructure (AWS/Azure/GCP) for high-availability applications.
- Design CI/CD pipelines to accelerate software delivery and ensure zero-downtime deployments.
- Implement infrastructure as code (Terraform/Ansible) to streamline provisioning.
- Deploy and manage containerized applications using Docker/Kubernetes.
- Strengthen security posture via IAM policies, VAPT, and compliance audits.

Contus Tech Pvt Ltd

System Engineer | *Oct 2022 – Mar 2024* | Chennai, India

- Manage and monitor all installed systems and infrastructure
- Install, configure, test and maintain operating systems, application software and system management tools
- Proactively ensure the highest levels of systems and infrastructure availability
- Monitor and test application performance for potential bottlenecks, identify possible solutions, and work with developers to implement those fixes
- Maintain security, backup, and redundancy strategies
- Write and maintain custom scripts to increase system efficiency and lower the human intervention time on any tasks
- Participate in the design of information and operational support systems
- Provide 2nd and 3rd level support Liaise with vendors and other IT personnel for problem resolution

Lcube Innovative Solutions Pvt Ltd

System Administrator | *Dec 2021 – Oct 2022* | Kanchipuram, India

- Install and configure software and hardware.
- Manage network servers and technology tools.
- Set up accounts and workstations.
- Monitor performance and maintain systems according to requirements.
- Troubleshoot issues and outages.
- Ensure security through access controls, backups and firewalls.

Key Projects

Automated CI/CD Pipeline for GCP

- Designed and implemented a **Jenkins-based CI/CD pipeline** on Google Cloud Platform (GCP) to automate build, test, and deployment processes.
- Integrated with **Google Container Registry (GCR)** for storing and managing Docker images.
- Deployed microservices to **Google Cloud Run** and **Compute Engine** for scalable, containerized applications.
- Enabled **webhook triggers** from Git (GitHub/GitLab/Bitbucket) to automatically initiate Jenkins builds on code commits.

- Configured **automated testing and linting stages** to ensure code quality before deployment.
- Leveraged **Cloud Build and GCR** for secure, fast, and repeatable image builds.
- Implemented **auto-scaling** on Cloud Run and **health checks** to maintain service reliability under load.
- Built in **automated rollback** mechanism using Jenkins pipelines and Cloud Run revisions for safe deployments.
- Reduced deployment time from **hours to minutes**, increasing release frequency and system resilience.

Tableau Server for Banking Analytics

- Deployed and configured **Tableau Server** in a secure environment for enterprise-wide banking analytics.
- Implemented **Role-Based Access Control (RBAC)** to manage user permissions and restrict access to sensitive financial dashboards.
- Ensured **data governance and compliance** with banking regulations (e.g., PCI DSS, GDPR, SOX) by enforcing data access policies and audit trails.
- Integrated Tableau Server with **Active Directory/LDAP** for centralized authentication and user group mapping.
- Published and maintained **interactive dashboards** for real-time insights across departments (e.g., credit risk, loan performance, fraud detection).
- Connected Tableau to various **data sources** including Oracle DB, SQL Server.
- Set up **automated data refresh schedules** and **incremental extracts** for optimized performance and up-to-date reporting.
- Configured **SSL/TLS encryption**, backups, and monitoring for high availability and disaster recovery.
- Collaborated with business analysts and compliance teams to standardize KPIs and **data definitions** for trustworthy analytics.
- Enabled **auditing and logging** of user activity for transparency and compliance tracking.

ETL Application for Salesforce-Bank Integration

- Set up and configured **Red Hat Enterprise Linux (RHEL)** server to host a Python-based ETL tool for syncing data between **Salesforce** and internal **banking databases**.
- Installed and managed all necessary **Python dependencies** and system packages using `pip`, `yum`, and virtual environments.
- Configured **web server (Nginx)** as a reverse proxy for the application, optimizing for performance and security.
- Implemented **SSL/TLS encryption** using self-signed.

- Configured **local DNS and hostname resolution** to support internal routing and service discoverability.
- Applied **system hardening best practices**, including firewall rules, SELinux policies, and user permissions for secure deployment.
- Created **systemd service units** to ensure the Python ETL application runs as a persistent background service with auto-restart capabilities.
- Worked closely with application developers to ensure infrastructure compatibility and deployment readiness.
- Provided **ongoing support** for server monitoring, log management, and periodic patching for OS and dependencies.

Talend Server on AWS

- Deployed **Windows Server EC2 instance** on AWS to host Talend Server and Talend Studio.
- Installed and configured **Talend Studio** and **Talend Administration Center (TAC)** for centralized job management.
- Integrated with **Oracle Database** via JDBC for scalable, secure data connectivity.
- Developed and deployed **ETL workflows** for data extraction, transformation, and loading from Oracle to AWS.
- Implemented **Talend JobServer** and **Remote Engine** for remote execution and scheduling of jobs.
- Used **Talend context variables** and encrypted credentials for secure environment-specific configurations.
- Scheduled and monitored jobs using **TAC**, with real-time tracking via **Talend Activity Monitoring Console**.
- Connected to **AWS S3** for data storage, and managed AWS access with **IAM roles and policies**.
- Monitored server performance and job logs using **CloudWatch** and Windows native tools.
- Secured RDP access and configured **user roles/permissions** in Talend for collaborative development.

EMR Cluster and Studio on AWS

- **Provisioned EMR Cluster** on AWS with appropriate instance types for big data processing.
- Configured **applications** like Apache Spark, Hive, and Hadoop for distributed data processing.
- Enabled **auto-scaling and step execution** for optimized resource usage and job management.

- Integrated **Amazon S3** for input/output data storage.
- Set up **EMR Studio** for interactive development with managed Jupyter notebooks.
- Linked EMR Studio to the cluster using **IAM roles**, **VPC**, and **security groups** for secure connectivity.
- Used **Spark on EMR Studio** to run exploratory data analysis (EDA), data transformation, and ML workflows.
- Implemented **data ingestion** pipelines from S3 and analyzed large datasets using PySpark.
- Monitored cluster performance using **CloudWatch** and **Ganglia**.
- Ensured secure access via **IAM policies**, **Service Roles**, and **authentication** setup with AWS SSO or IAM Identity Center.
- Implemented data ingestion pipelines from S3 and analyzed large datasets using PySpark.
- Monitored cluster performance using CloudWatch.
- Ensured secure access via IAM policies, Service Roles, and authentication setup with IAM Identity Center.

Education

CSC Diploma • Computer Applications • 2018 - 2019

LICENSES & CERTIFICATIONS

- DevOps Foundations LinkedIn • Issued Apr 2025
- Introduction to Cybersecurity Cisco Networking Academy • Issued Mar 2022
- Python(Basic) HackerRank • Issued May 2021

Technical Skills

Cloud Platforms: AWS, Azure, GCP • CI/CD Pipelines: Jenkins, GitHub Actions, GitLab CI/CD • Infrastructure as Code: Terraform, Ansible, CloudFormation • Scripting & Automation: Python, Bash • Containerization & Orchestration: Docker, Kubernetes • Monitoring & Logging: Prometheus, Grafana, ELK Stack • Security & Compliance: IAM, Security Groups, Vulnerability Scanning

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