

Nandheeswaran M

System Engineer | AWS Cloud DevOps Engineer

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Professional Summary

Proactive Cloud and DevOps Engineer with hands-on experience in designing, automating, and managing secure AWS infrastructure. Strong expertise in Linux administration, CI/CD pipelines, containerization, and Infrastructure as Code. AWS Certified Solutions Architect with a proven ability to improve deployment reliability, automate operations, and support scalable cloud environments.

Technical Skills

Cloud: AWS (EC2, VPC, IAM, Route53, Auto Scaling, ECS, EKS, Lambda, S3, RDS, Aurora, CloudWatch)

DevOps & IaC: Terraform, Ansible, Jenkins, GitHub Actions

Containers: Docker, Kubernetes

Monitoring: Prometheus, Grafana

Scripting: Bash, Shell Scripting, Python (basic)

OS & Tools: Linux, Git, CI/CD Pipelines

Professional Experience

System Engineer — Tata Consultancy Services (TCS)

Oct 2024 – Present

Bangalore, Karnataka

- Administered and supported Linux-based servers, ensuring high availability and system reliability.
- Designed and managed AWS resources including EC2, VPC, IAM, Security Groups, and Load Balancers.
- Automated infrastructure and operational tasks using Ansible playbooks and shell scripts, reducing manual effort.
- Implemented CI/CD pipelines using Jenkins and Git-based workflows for automated build and deployment.
- Worked with Docker containers and Kubernetes for application deployment and orchestration.
- Monitored system performance and availability using CloudWatch, Prometheus, and Grafana dashboards.
- Performed system patching, security updates, and incident resolution following ITIL practices.

Projects

DevOps Workflow on AWS EC2

- Built and deployed a complete CI/CD pipeline for a static website on AWS EC2.
- Integrated Jenkins, Docker, Ansible, and Git for automated build, deployment, and configuration.
- Containerized applications using Docker to ensure consistency across environments.
- Used Ansible for configuration management and repeatable deployments.

Automated CI/CD Pipeline Implementation

- Designed an end-to-end DevOps pipeline using Bitbucket, Maven, SonarQube, Nexus/JFrog, Docker, and Ansible.
- Automated code quality checks, artifact management, container builds, and deployments.
- Secured credentials using Ansible Vault and improved deployment reliability.

Certifications

- AWS Certified Solutions Architect – Associate (Score: 97%)
- Professional training in Linux, Ansible, Jenkins, Git, Docker, and Kubernetes (Udemy)

Education

Bachelor of Engineering — Electronics and Communication Engineering

Dr. Mahalingam College of Engineering and Technology, Anna University

2020 – 2024

CGPA: 8.9

SSLC — Maths & Biology

SRV Boys Higher Secondary School

Percentage: 84

Awards

- Learning Achievement Award for examination excellence
- On-the-Spot Award for technical expertise and performance