Lekshmi N Kolappan

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SUMMARY

Experienced SRE/DevOps Engineer with 10+ years delivering high-uptime AWS and Kubernetes solutions for SaaS and regulated platforms. Proven track record designing and automating cloud infrastructure, CI/CD pipelines, and robust observability for mission-critical systems, with a strong foundation in Linux administration that informs my approach to building resilient systems. Adept at driving reliability, compliance, and scale through Infrastructure as Code, security best practices, and modern DevOps tooling.

EXPERIENCE

Site Reliability Engineer | Extreme Reach Limited | London | April 2022 – Present

- As an SRE managed application reliability to achieve 99.9% uptime targets.
- Led AWS EKS Kubernetes cluster management project using Terraform for Infrastructure as Code (IaC), enabling 30% faster scalable and reliable deployments across 5+ environments.
- Implemented Helm charts, Kustomize overlays, and custom operators, reducing application deployment time by 40% and improving lifecycle consistency across multiple clusters.
- Handled advanced cluster-level debugging and maintenance, coupled with monitoring and observability integration using Prometheus, Grafana, and Datadog, achieving 99.9% system uptime and reducing incident response time by 25%.
- Developed a Python framework to migrate 100+ CloudFormation templates to Terraform, integrating with GitLab CI/CD to automate 90% of deployment workflows and accelerate infrastructure provisioning.
- Developed the GoldenAMI project and automated Jenkins pipeline to build, test, and register AWS AMIs using HashiCorp Packer, cutting AMI build time by 50% and optimizing infrastructure workflows. Preparing to open-source the framework.
- Designed and implemented an AWS CloudFormation drift detection framework using Jenkins, AWS SES, and PagerDuty that decreased configuration drift incidents by 70% and improved alert accuracy, reducing false positives by 60%.
- Implemented end-to-end CI/CD pipelines in Azure DevOps for AWS Fargate (ECS) using Blue-Green deployments, Terraform IaC, and ALB routing, achieving zero-downtime releases and 3x faster deployments.

Senior DevOps Engineer | ADP Inc | Chennai | December 2017 – December 2021

- Extensively used AWS CDK and Boto3 library and cloud formation to create the infrastructure as code also as a library module.
- Utilized Terraform to manage AWS Secrets Manager for secure database secret storage, leveraging Jenkins to automate logistics workflows, which improved secrets management and enhanced system reliability.
- Leveraged Kubernetes via EKS and other AWS SaaS tools to cut release times by 20%.
- Engineered a Python tool as an engineers' playground for gamedays and chaos engineering, injecting faults into Kubernetes and AWS environments, increasing resilience testing coverage by 60%.
- Assisted with refining the SDLC using Jenkins CI & ArgoCD shortening deployment cycles by 30% and improving release stability.
- Developed and deployed an infrastructure audit and automated testing framework using Chef InSpec within AWS Lambda, increasing compliance coverage by 50% and reducing manual audit times by 40%.

Systems Analyst | NTT Digital Business Solutions | Chennai | December 2015 – December 2017

- Assisted in transitioning a monolithic Node.js application to a microservices architecture by designing scalable and modular microservice architecture components.
- Implemented the container orchestration using Docker swarm with minimized container maintenance and self-healing capability by 50%.
- Migrated a public Docker registry to a self-hosted Docker Trusted Registry (DTR), improving image security and compliance posture by 40% and reducing external dependency risks.
- Implemented a unified artifact management solution using JFrog Artifactory, enabling 80% reuse of build components across teams and cutting software delivery time by 30%.
- Designed and implemented CI/CD pipelines in Jenkins with automated build, test, QA, and deployment stages, improving release consistency and reducing deployment errors by 45%.
- Cut down the new client onboarding time to 70%, by reduced turnaround time leveraging IaC on the apps such as Jira, Confluence.
- Created a Chef cookbook for Security patch automation for the production servers via Jenkins.
- Automated lifecycle management of GCP instances using Terraform and Chef, including provisioning, configuration, and decommissioning, to ensure scalable and reliable infrastructure.

NOC – Linux administrator. | COMODO Inc | Chennai | May 2013 – December 2015

- Set up and managed 40 Linux servers, including bare-metal and virtualized environments, achieving 99.95% uptime through rigorous monitoring and maintenance.
- Centralized the configuration management leveraging Ansible for 100+ servers.
- Automated web server content deployments via Ansible playbooks.
- Deployed 2+ software iterations per day for 2 years that Increased customer satisfaction by 25%.
- Managed the configurations of more than 40 servers using Puppet, configured Jenkins builds for continuous integration and delivery. Automated web server content deployments via Ansible playbooks.
- Integrated and maintained multiple application and network environments, including high availability and disaster recovery.

Systems Administrator | Edserv Soft systems Ltd | Chennai | February 2010 – April 2013
· Installed and Configured VMware ESXi server, vSphere Client, and vCenter.
· Administered SVN and Gitolite servers with full lifecycle management of user accounts, repository creation, and branch management.
· Atlassian product suite administration, Apache/Nginx webserver configuration management.
· Developed and maintained shell scripts automating system maintenance tasks, reducing manual effort by 70% and improving task completion speed by 50%.
· Administered Linux-HA Heartbeat servers to maintain high availability, configured heartbeat intervals and failover settings to ensure seamless service continuity and minimize downtime.
· Directed bare-metal server deployment, configuration, and maintenance to support critical business workloads.
· Managed package installations, upgrades, and removals using apt and yum package managers across 200+ Linux servers, reducing deployment time by 30% and minimizing system downtime.
· Administered SVN server including account, repository, website management, and server configuration, supporting 100+ active users and ensuring 99.9% uptime.
· Designed, deployed, and supported a scalable web server infrastructure serving 1,000+ internal users, improving response times by 25% and increasing availability to 99.95%.
· Implemented detailed firewall configurations, enforced comprehensive system hardening, and ensured strict compliance adherence to protect business-critical applications.

PROJECT

Cloud CV | l4linux.com/portfolio/cloud-cv/ | August 2025 – October 2025
· Serves the CV through the Cloud CV project — a serverless resume website demonstrating Infrastructure as Code, CI/CD automation, and modern DevOps practices using AWS Lambda, Redis, S3, AWS Cloudfront, Github CI/CD actions and Terraform.

Personal Portfolio & Technical Blog | l4linux.com | May 2023 – October 2025
· Developed and deployed a portfolio website with automated GitHub Pages publication, serving 100+ monthly visitors interested in AWS EKS, Terraform, Docker, and DevOps topics.
· Automated continuous deployment using GitHub Actions, reducing manual deployment efforts by 90% and ensuring zero downtime during updates.
· Published 30+ technical blog posts focusing on advanced SRE and DevOps practices, driving a 25% increase in professional engagement and community contributions.

EDUCATION

Bachelor of Engineering | Anna university | Minor in Electronics and Communication Engineering. | Chennai, India | 2008

CERTIFICATIONS

CKA: Certified Kubernetes Administrator | Cloud Native Computing Foundation | 2020

Certified terraform associate | Hashicorp | 2021

RHCE - Red Hat Certified Engineer | Redhat Inc | 2013

INVOLVEMENT

Technical reviewer of the book "Linux for System Administrator" | Packt Publication

Technical Reviewer of CentOS-High-Performance Book | Packt publication

SKILLS

Containers and orchestration: Docker, Docker Swarm, Kubernetes, EKS.

Scripting: Bash, Python

Logging and monitoring: ELK, Datadog, Prometheus, Grafana.

Continuous integration/ Continuous Delivery: Jenkins, ArogCD, CircleCI

Databases: MySQL, MariaDB, AWS Aurora, Postgres.

Configuration Management: Ansible, Chef, Puppet.

DevOps Tools: Helm, Kustomize, Packr, Vault