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 Engineer responsible for the Reliability of Applications with 99.9% uptime.
· Performed as SRE enabler, specializing in Agile and IaC, Orchestration, Monitoring, and Alerting.
· Developed a Python framework to migrate CFN templates to Terraform, integrating GitLab Actions for seamless automation. Currently working on open-sourcing this framework for public use.
· Developed the "GoldenAMI" project and implemented an automated Jenkins pipeline for building, testing, and registering AWS AMIs with HashiCorp Packer, optimizing and streamlining the infrastructure workflow.
· Designed and implemented an AWS CFN drift detection framework using Jenkins and AWS Simple Email Service (SES) for automated notifications.

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%.
· Worked on Python tool to inject chaos on the K8s, AWS environment for proactive monitoring.
· Assisted with refining the SDLC to fit system needs using Jenkins CI/CD.
· Developed an infrastructure audit and automated testing framework for integration with AWS cloud infrastructure leveraging the Chef's Inspec.

Systems Analyst | NTT Digital Business Solutions | Chennai | December 2015 – December 2017
· Assisted the transition of a monolith Node Application into the MicroServices world.
· Implemented the container orchestration using Docker swarm with minimized container maintenance and self-healing capability by 50%.
· Migrated the public used Docker registry to self-hosted DTR for better security.
· Accomplished solution-based approach to software development using unified reuse artifacts by Jfrog Artifactory.
· Designed CI/CD processes in the context of a Jenkins orchestration, including the usage of automated build, test/QA and deployment tools Configure jobs and pipelines using Jenkins. Troubleshoot problems arising from Build failures and Test failures.
· 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.
· Creating EC2 instances via Chef/AWS Console, Deploying the software into EC2 instances via Chef. Terminating/Stopping/Creating EC2 instances using AWS Console and Chef. Working knowledge on AWS S3, EBS, ELB, Auto Scaling, VPC.

NOC – Linux administrator. | COMODO Inc | Chennai | May 2013 – December 2015
· Set up and managed 40 Linux servers with 99.95% up-time.
· Managed the high availability of systems, servers, and related components and the security of the business applications.
· 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.
· SVN/Gitolite server administration that includes account, repo, branch management.
· Atlassian product suite administration, Apache/Nginx webserver configuration management.
· Shell script to automate system maintenance tasks.
· The Linux-HA heartbeat server administration.
· Postfix and Zimbra mail server administration.
· Handling package installations, upgrades, and Removals using apt, yum package managers.
· SVN server administration that includes account, repo, website management, and server configuration.
· Designed, deployed and supported a web server infrastructure for the entire organization.

PROJECT

Cloud CV | l4linux.com/portfolio/cloud-cv/
· This CV is served using my Cloud CV project – a serverless resume website demonstrating Infrastructure as Code, CI/CD automation, and modern DevOps practices with AWS and Terraform.

Personal Portfolio & Technical Blog | l4linux.com
· Developed and deployed a portfolio website with automated GitHub Pages deployment, featuring technical blog content on AWS EKS, Terraform, Docker, and SRE/DevOps practices.

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