

Lekshminarayan K

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SUMMARY

Experienced SRE/DevOps Engineer with a demonstrated history working with Open source tools in the software industry with 10+ years as an individual contributor.

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 CentOS-High-Performance Book | Packt publication

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