

Edvin Basil Samuval

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Passionate system administrator with experience in designing, building, and maintaining linux systems. Able to work independently as well as in a team. Skilled in identifying technical issues and resolving them in optimal ways. Has a strong passion for teaching others and sharing technical knowledge. Is also a hobbyist developer with interest in systems level programming.

Education

05/2017 - 05/2021 **National Institute of Technology, Calicut**
Bachelors in Computer Science and Engineering

Experience

04/2019 - 06/2021 **Software Systems Lab, NIT Calicut**
Calicut, India
System Administrator - Volunteer

- Managing around 800 users, 75 client systems, and 9 physical servers
- Maintaining a 3-node Xen hypervisor cluster
- Managing compute resources for students
- VM provisioning and maintenance
- Managing services like DNS, DHCP, LDAP, Load Balancers, TLS certificates
- Managing uptime and reliability of institutional websites
- Working with application stacks including PHP, Python, node js, MySQL

Was in charge of migrating services running on bare metal to virtualized infrastructure

Skills

Linux Administration

Bash, Git, Nginx, MySQL, LDAP, Saltstack, Ansible

Network Administration

Routing, Switching, Subnetting, VLANs, and tools like iptables and pfsense

Virtualization, Baremetal Cloud

Experienced with Citrix XenServer (XCP-ng) and familiar with Azure

Programming Languages

- Python: Scripting and automation
- Golang: Tooling and microservices
- Rust: Low level/systems programming
- NodeJS/Javascript: Web applications

DevOps

Familiar with several tools like terraform, docker, LXC/LXD, and CI platforms like Gitlab CI

Kubernetes

Cluster deployment and management. Familiar with tools like k3s, rancher, longhorn and metallb

Projects and Works

FOSSCell NIT Calicut

- Planning and building centralized identity management for SSO
- Deploying and maintaining a Gitlab instance
- Automated deployment of infrastructure for low-latency video streaming as part of a conference

Semester Registration, NIT Calicut

Technical Incharge

Deploy, and manage the software used for registering students for each semester. Point of contact for all technical issues. Responsible for coordinating the process with the Student Affairs Council.

Personal Homelab

Linux based environment, connected to a few VMs on the cloud. Used to run services for friends and family as well as a place to experiment and learn from.