

EKNATHA REDDY PULI

Senior Staff Platform Engineer | Site Reliability Engineer (SRE) | Cloud Infrastructure

Kubernetes | OpenStack | Terraform | Linux | AWS | Azure | GCP | Python

eknathareddypuli@gmail.com | Bengaluru, India | linkedin.com/in/eknathareddypuli | github.com/eknatha | eknathareddy.com

PROFESSIONAL SUMMARY

Senior Staff Platform Engineer and Site Reliability Engineer (SRE) with 15+ years designing and operating Linux, Kubernetes and OpenStack infrastructure for enterprise production. Lead platform engineering for a multi-AZ OpenStack private cloud at IBM, sustaining a 99.9%+ SLA. Delivered zero-downtime Kubernetes upgrades and migrations, Terraform-based provisioning, P1/P2 incident response with root-cause analysis, and Prometheus/Grafana observability across telecom, ad-tech and enterprise cloud. Apply SLO and error-budget practices, automate toil with Python, Bash and Go, and mentor engineers on production operations. Multi-cloud across AWS, Azure and GCP.

TECHNICAL SKILLS

Cloud & Infrastructure: OpenStack (multi-AZ private cloud), AWS, Azure, GCP, Bare Metal, Hybrid / Multi-Cloud, Terraform, Infrastructure as Code, IAM

Containers & Orchestration: Kubernetes, EKS, AKS, ArgoCD (GitOps), Operators, CNI, CSI, RBAC, Cluster Upgrades & Lifecycle Management

SRE & Observability: SLI / SLO / SLA, Error Budgets, Incident Response, Root Cause Analysis, Prometheus, Grafana, High Availability, Disaster Recovery

Linux & Systems: RHEL, CentOS, Solaris, Kernel Tuning, TCP/IP, DNS, Load Balancers, Security Hardening, Virtualization

Automation & Languages: Python, Bash / Shell, Go (Golang)

Databases: PostgreSQL, MySQL, MongoDB: replication, backup validation, performance tuning

AI-Assisted Engineering: IBM Bob, Claude, Cursor for infrastructure automation, troubleshooting and documentation, with human review of all generated changes

PROFESSIONAL EXPERIENCE

Senior Staff Software Engineer, Platform Engineering & SRE

Aug 2023 – Present

IBM Systems Development Labs, Bengaluru, India

- Lead platform engineering for a multi-AZ OpenStack private cloud, sustaining a 99.9%+ SLA for enterprise production workloads across compute, networking, storage and identity services.
- Own the full lifecycle of Kubernetes clusters (deployment, upgrades, scaling, troubleshooting); build operators and CLI utilities in Go to extend platform orchestration.
- Lead architecture and change reviews for the OpenStack and Kubernetes platform with network, storage and security teams, covering upgrade strategy, failover design and rollback plans.
- Lead P1/P2 incident response and root-cause analysis across Linux, Kubernetes, OpenStack, storage and virtualization layers; cut recurring outages with automated remediation runbooks.
- Built Terraform, Python and shell infrastructure-as-code pipelines that reduced environment provisioning time by ~60%.
- Enforce security hardening standards across compute, network and storage layers; automated compliance scanning reduced vulnerability surface area.
- Run PostgreSQL and MySQL for platform services: backup validation, replication monitoring and performance tuning.
- Mentor engineers through hands-on guidance, deep-dive troubleshooting sessions and operational best practices.

Senior Tech Lead, Kubernetes & Cloud Infrastructure

Jul 2022 – Aug 2023

Sterlite Technologies, Bengaluru, India

- Ran production-grade Kubernetes clusters for carrier-grade telecom workloads across development, staging and production.
- Deployed and administered container platforms covering CNI networking, CSI persistent storage, RBAC policies and workload scheduling for high-throughput applications.
- Automated provisioning with Terraform on OpenStack and public cloud, cutting manual configuration errors and environment spin-up time.
- Implemented Prometheus and Grafana observability with proactive alerting, reducing mean time to detection (MTTD) for production anomalies.
- Mentored engineers on Kubernetes operations, container security and cloud-native practices.

Technical Specialist, Cloud Infrastructure & Kubernetes

Dec 2019 – Jul 2022

AT&T / Xandr (acquired by Microsoft, 2022), Bengaluru, India

- Led Kubernetes cluster upgrades and migrations across on-premises and cloud with zero downtime for production ad-tech services.
- Scaled and managed highly available Linux, Kubernetes and Azure infrastructure for mission-critical microservices with strict latency and throughput requirements.
- Administered PostgreSQL and MySQL: replication topologies, query optimization and automated backups, sustaining 99.95% uptime.
- Reduced infrastructure cost through right-sizing and reserved-instance planning while meeting performance SLAs.

Lead, Cloud & IT Infrastructure

Jun 2017 – Dec 2019

Subex, Bengaluru, India

- Managed and optimized OpenStack, AWS and Azure environments for enterprise infrastructure workloads.
- Architected and executed large-scale multi-cloud migrations with minimal downtime and zero data loss.
- Designed highly available hybrid cloud infrastructure with disaster recovery, achieving RPO under 15 minutes and RTO under 1 hour for critical services.
- Hardened cloud security through network segmentation, IAM policies and encryption standards across multi-cloud deployments.

Senior Engineer, OSS-RC Production Infrastructure

Sep 2011 – May 2017

Ericsson, Bengaluru, India

- Administered, optimized and scaled OSS-RC production telecom infrastructure and databases on Solaris and RHEL, maintaining 99.95% uptime.
- Led deployment, patching and complex upgrades of multi-tier applications in HA architectures with zero user-facing disruption.
- Automated repetitive deployment and environment configuration with shell scripting, reducing operational toil.
- Handled P1 incident response and emergency patching as part of a 24x7 Emergency Recovery Team under strict SLAs.
- Resolved OS-level performance bottlenecks by tuning kernel parameters and resource allocation for heavy database and application workloads.

CERTIFICATIONS

- Google Cloud Associate Cloud Engineer (2026)
- Certified Kubernetes Administrator (CKA), CNCF (recertification in progress)
- Oracle Cloud Infrastructure Certified Foundations Associate (2025)
- Red Hat Certified System Administrator (RHCSA)

SELECTED PROJECTS

- 100 Days of Linux for DevOps: 100+ hands-on Linux concepts for DevOps practitioners. github.com/eknatha/linux-100-devops-challenge
- DB Encyclopedia: interactive reference for database concepts, queries and optimization. db.eknathalabs.com
- Linux Command Explainer: web tool explaining Linux commands with real-world examples. linux-command-explainer.eknathalabs.com

EDUCATION

B.E., Electronics & Communication Engineering, Visvesvaraya Technological University (VTU), 2008