

Prasanta Kumar Behera

Senior Technical Lead · Platform Engineering · Kubernetes · AWS/EKS · Edge

mymail8500@gmail.com
Bengaluru, India

PROFILE

Senior Technical Lead with **17+ years** in platform and infrastructure engineering, built on a deep **Linux** foundation (RHCE) and years of **OpenStack** private-cloud operations. I design and run **Kubernetes platforms** end to end: **zero-touch provisioning** of air-gapped bare metal, cluster **deployment, upgrades, maintenance and monitoring** across upstream Kubernetes, **EKS Anywhere** and **RKE2**, and cloud platforms on **AWS with Amazon EKS and Terraform**. I use **AI-assisted engineering** (Claude Code, MCP servers) with specs, tests and review to speed up automation, code review and pre-QA validation. Targeting Platform Engineering, DevOps/SRE, Kubernetes and Solution Architecture roles.

- Linux (RHCE)
- Kubernetes Lifecycle
- OpenStack
- Amazon EKS
- Terraform
- Bare-Metal Automation
- Air-Gapped Edge
- GitOps & CI/CD
- Observability
- PKI & mTLS
- AI-Assisted Engineering

CORE SKILLS

Linux	RHEL, Ubuntu, SUSE SLE Micro; systemd, SELinux, kernel & sysctl tuning, networking, bonding, performance troubleshooting	Kubernetes	Upstream (kubeadm), EKS Anywhere, GKE, RKE2, Rancher, Helm, RBAC, upgrades & lifecycle; containerd, Docker, Podman
OpenStack	Nova, Neutron, Keystone, Glance, Cinder, Ceph, Heat; operations, troubleshooting, private-cloud design	AWS & EKS	Amazon EKS, EC2, VPC, IAM, Security Groups, ELB/NLB, Elastic IP, EBS, EFS, S3, KMS
Scripting	Bash, Python, Go; REST APIs, automation tooling	IaC & Automation	Terraform, Ansible, Chef
CI/CD & Delivery	Jenkins, GitHub Actions, Git, GitOps (Argo CD), Harbor, Artifactory	Provisioning	Tinkerbell, Metal3, PXE/iPXE, Redfish, IPMI, cloud-init, ISO/RAW/QCOW2 images
Observability	Prometheus, Grafana, Elasticsearch, Kibana, Fluentd, OpenTelemetry, PagerDuty	Hardware	HPE, Dell, Supermicro servers; BMC, firmware, hardware troubleshooting
Security	TLS/mTLS, PKI & certificate lifecycle, OIDC/SSO, secrets management	AI Engineering	Claude Code, MCP servers, skills & plugins, AI PR review, AI test simulation

EXPERIENCE

Senior Technical Lead · **Parallel Wireless** Oct 2021 – Present · Bengaluru
Kubernetes-based edge cloud platforms for telecom customers across distributed, air-gapped sites.

PLATFORM & KUBERNETES

- Own the **cluster lifecycle** for upstream Kubernetes, **EKS Anywhere** and **RKE2**: deployment, version upgrades, maintenance, capacity and monitoring.
- Architect **zero-touch provisioning** for air-gapped bare metal using Tinkerbell, Metal3, PXE/iPXE, HookOS, Redfish, IPMI and cloud-init.
- Build Kubernetes lifecycle automation and internal platform tooling in **Go, Python, Bash and Ansible**.
- Built EKS Anywhere and RKE2 **cluster simulations on KVM** for pre-QA validation, catching integration issues before formal test cycles.
- Deliver CI/CD pipelines for **immutable OS images** (ISO, QCOW2, VMDK); integrate Harbor, Artifactory, containerd and Podman into platform workflows.
- Implement **TLS/mTLS, PKI and certificate lifecycle** management across the platform.
- Lead **RCA** for Kubernetes, Linux, networking and infrastructure issues using Prometheus, Grafana, Elasticsearch and Kibana.

- Mentor engineers; partner with product, QA, customer engineering and architecture teams on platform best practices.

AI-ASSISTED ENGINEERING

- Use **Claude Code** daily for infrastructure automation, Ansible/Terraform changes, RCA write-ups and runbooks.
- Build and use **MCP servers**, skills and plugins that give AI tools safe, read-only access to cluster and platform tooling.
- Practise **spec-driven AI development over "vibe coding"**: clear specs, tests first and human review before anything merges.
- Apply **AI-assisted PR review** and **AI-generated test scenarios** (failure modes, upgrade paths) to widen pre-QA coverage.

Senior Engineer · Target India

Nov 2015 – Oct 2021

- Started on the **OpenStack private cloud** (Chef, Heat, Terraform), then moved to **Kubernetes**, including **Google Kubernetes Engine (GKE)**.
- Managed and operated a **large fleet of Kubernetes clusters** supporting edge computing platforms.
- Led Kubernetes **certificate lifecycle management** and platform reliability initiatives.
- Designed Kubernetes clusters with **kubeadm** and automated deployments with **Ansible**; built monitoring with Prometheus and Grafana.

Cloud Admin · Cisco

Jul 2014 – Nov 2015

- Administered and monitored Cisco's private **OpenStack** cloud; troubleshoot Keystone, Nova, Neutron and **Ceph**.
- Resolved escalated issues within SLA and worked with DevOps and service providers to resolve major outages.

Linux System Administrator · IBM ISL

Mar 2013 – Jul 2014

- Designed and deployed data-center infrastructure; built in-house cloud tooling to manage virtual machines; automated tasks to reduce downtime.

EARLIER ROLES

System Engineer · Dell R&D (server hardware, firmware and OS enablement)

Feb 2012 – Mar 2013

Technical Support Engineer · Crystal Informatics, Bhubaneswar

Mar 2009 – Dec 2011

CLOUD PROJECTS (HANDS-ON)

Amazon EKS Platform on AWS with Terraform

Production-style EKS reference platform, built and operated end to end as code.

- Provisioned **Amazon EKS** with modular **Terraform**: remote state in S3 with locking, per-environment tfvars and drift checks.
- Designed a multi-AZ **VPC** with private subnets, NAT, VPC endpoints and a secondary 100.64/16 pod CIDR with VPC CNF prefix delegation.
- Set up **EC2** launch templates and managed node groups, **Karpenter** autoscaling, and **ALB/NLB** with Elastic IPs for stable endpoints.
- Secured access with **IAM** least privilege, **EKS access entries**, Pod Identity/IRSA, security groups and **KMS** encryption.
- Configured **EBS** and **EFS** CSI storage tiers; practised EKS version and add-on upgrades, and Terraform-state and cluster recovery.

Platform Engineering Learning Hub

Public, scenario-based knowledge hub: 21 tracks, 200+ lessons from beginner to architect.

- Hands-on tracks on Linux, Bash and Python, Kubernetes administration and security, OpenStack, EKS with Terraform, GitOps, EFK and AI-assisted operations.

EDUCATION

BCA · Sambalpur University

Diploma in Computer Hardware & Networking · IIHT

CERTIFICATIONS

RHCE

Mirantis OpenStack

VMware

Ceph

Python

Shell Scripting

CEH