

SIBASISH PANIGRAHI

Site Reliability Engineer | DevOps Engineer | Cloud Infrastructure & Platform Engineering

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PROFESSIONAL SUMMARY

Reliability-focused DevOps Engineer with 2+ years of production experience designing, automating, and operating highly available AWS cloud infrastructure. Hands-on expertise across Infrastructure as Code (Terraform, CloudFormation), Configuration Management (Ansible), CI/CD automation (Jenkins, GitHub Actions), Docker containerization, and Kubernetes-based container orchestration (Pods, Deployments, Services, workload scaling, service discovery). Proven track record improving deployment velocity by up to 80% and infrastructure provisioning speed by 70% through automation and Infrastructure as Code. Builds production-grade observability using Prometheus, Grafana, and Loki to drive proactive alerting, faster root cause analysis, and improved system visibility. Strong background in AWS networking, IAM security, disaster recovery, and production support, with a reliability-first mindset centered on high availability, fault tolerance, and operational excellence. Thrives in cross-functional environments, partnering with development, QA, and infrastructure teams to ship software reliably at scale.

CORE TECHNICAL SKILLS

Container Orchestration & Kubernetes: Kubernetes, Pods, Deployments, Services, Service Discovery, Workload Scaling, Docker, Docker Compose, Containerization, Microservices Deployment

Cloud Platform (AWS): EC2, IAM, S3, VPC, Route53, Elastic Load Balancer (ELB), CloudWatch, NAT Gateway, Internet Gateway, Security Groups, DigitalOcean

Infrastructure as Code & Automation: Terraform, Terraform Modules, Terraform State Management, CloudFormation, Ansible, Infrastructure Automation, Cloud Automation

CI/CD & Release Engineering: Jenkins, GitHub Actions, CI/CD Pipeline Design, Build Automation, Deployment Automation, Release Management, Git, GitHub

Observability & Monitoring: Prometheus, Grafana, Loki, Alert Management, Centralized Log Monitoring, Performance Monitoring, Incident Response

Reliability Engineering & Production Support: High Availability, Fault Tolerance, Disaster Recovery, Zero Downtime Deployment, Root Cause Analysis, Production Support, Capacity & Resource Optimization, Operational Documentation & Runbooks

Linux, Scripting & Web Serving: Linux Administration (Ubuntu), Bash / Shell Scripting, Nginx Reverse Proxy, Process Management, Cron Jobs

Cloud Security & Networking: IAM Policies (Least Privilege), SSL/TLS, Certbot, Cloudflare, Security Groups, DNS, Network Hardening, VPC (Public/Private Subnets, Route Tables)

PROFESSIONAL EXPERIENCE

AAS International Pvt. Ltd. — Bhubaneswar, Odisha

DevOps Engineer (Site Reliability Focus) | December 2024 – Present

- Architected and maintained end-to-end CI/CD pipelines using Jenkins and GitHub Actions, cutting software deployment time by nearly 80% through pipeline automation and continuous integration practices.
- Own AWS cloud infrastructure — EC2, IAM, S3, VPC, Route53, Load Balancers, Security Groups — supporting production workloads with a focus on availability, security, and cost efficiency.
- Engineered reusable Terraform modules to provision production-ready AWS environments as code, reducing infrastructure provisioning time by approximately 70%.
- Automated infrastructure provisioning and configuration management with Terraform and Ansible, enabling faster, repeatable, and consistent deployments across environments.
- Designed and managed AWS networking architecture — VPC, public/private subnets, route tables, Internet Gateway, and NAT Gateway — supporting secure, highly available application delivery.
- Containerized production applications with Docker, ensuring consistent behavior across development, testing, and production environments.
- Operate and troubleshoot Kubernetes clusters (Pods, Deployments, Services), supporting workload scaling and service discovery for containerized applications.
- Built and maintained a production-grade observability stack (Prometheus, Grafana, Loki) with centralized logging and dashboards to improve system visibility and reduce time to detection.
- Implemented proactive alerting workflows to surface system failures before they impacted business operations.
- Perform root cause analysis on production incidents, infrastructure failures, and deployment issues, driving fixes that minimized business impact and improved system resilience.
- Hardened cloud security posture by managing IAM roles and policies under least-privilege principles, configuring SSL/TLS via Certbot, and applying Cloudflare-based network protections.

- Improved infrastructure resilience through automated backups, server snapshots, and disaster recovery planning to support business continuity.
- Tuned Linux servers for improved resource utilization, performance, and security, supporting capacity planning for growing workloads.
- Managed application traffic and load balancing using Nginx reverse proxy configurations.
- Partnered with development, QA, and infrastructure teams to streamline release cycles and improve deployment reliability.
- Authored and maintained runbooks and technical documentation covering deployment processes, infrastructure architecture, and operational procedures.
- Ensured availability, scalability, and stability of production systems across cloud environments, aligning day-to-day work with reliability engineering best practices.

KEY PROJECTS

E-Commerce Platform Deployment

- Designed and deployed scalable, highly available AWS infrastructure to support production e-commerce traffic.
- Automated CI/CD pipelines (Jenkins, GitHub Actions) to enable faster, safer releases.
- Containerized services with Docker for consistent, portable deployments.
- Implemented Prometheus and Grafana monitoring for real-time visibility into application and infrastructure health.
- Currently extending the platform toward Kubernetes-based orchestration for improved scalability and resilience.

HR Management System Automation

- Automated infrastructure provisioning end-to-end using Terraform, reducing environment setup time by approximately 70%.
- Implemented Ansible-based configuration management to standardize server configuration.
- Improved deployment consistency, repeatability, and auditability across environments.

Self-Hosted Frappe CRM Deployment

- Deployed and operated a production-ready CRM application on Linux infrastructure.
- Configured Nginx reverse proxy and SSL/TLS (via Certbot) for secure, reliable access.
- Optimized application performance and streamlined deployment automation.

Dynamic Website Hosting Infrastructure

- Architected AWS hosting infrastructure (EC2, S3, VPC) following production networking best practices.
- Hardened the environment using Security Groups and NAT Gateway configuration.
- Improved infrastructure security posture and operational reliability.

Medicine Audit Application Deployment

- Built a secure, Docker-based deployment pipeline for a production application.
- Automated the deployment process to reduce manual intervention and release risk.
- Applied cloud security best practices and configured production monitoring for operational visibility.

Tours & Travels Management Application

- Deployed and operated a Docker-based production application.
- Integrated monitoring and centralized logging to support proactive issue detection.
- Improved application availability and deployment reliability through automation.

EDUCATION

Master of Science (M.Sc.) - Geoinformatics | 2021 - 2023

Utkal University, Vani Vihar, Bhubaneswar

Bachelor of Science (B.Sc.) - Mathematics | 2018 - 2021

Panchayat Prahallad Degree College, Cuttack (Utkal University)

PROFESSIONAL STRENGTHS

Site Reliability & Production Support, AWS Cloud Administration, Kubernetes & Container Orchestration, Infrastructure as Code (Terraform/Ansible), CI/CD Engineering, Observability & Monitoring (Prometheus/Grafana/Loki), Incident Response & Root Cause Analysis, Disaster Recovery & High Availability Design, Cloud & Network Security, Linux Systems Administration, Performance Optimization & Capacity Planning, Cross-Functional Collaboration, Ownership & Accountability, Operational Excellence, Continuous Learning, Analytical & Systems Thinking

LANGUAGES

English, Hindi, Odia