

# Ujwal Budha

## DevOps Engineer

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DevOps Engineer with two years of experience building and automating cloud infrastructure, CI/CD pipelines, and container orchestration platforms. Focused on improving system reliability, reducing operational overhead, and implementing observability practices to ensure high availability and rapid incident response in production environments.

## EXPERIENCE

### DevOps Engineer, Adex International Pvt. Ltd., Nepal | Jul 2025 - Present

- Architected and managed multi-environment cloud infrastructure (Dev, Staging, Prod) using Terraform and Ansible, ensuring infrastructure state consistency.
- Engineered robust CI/CD pipelines using GitHub Actions, enabling zero-downtime deployments for microservices on AWS ECS Fargate.
- Orchestrated high-availability Kubernetes clusters using Kubeadm and Helm, implementing auto-scaling, self-healing mechanisms, and Ingress controllers.
- Developed reusable Terraform modules for OpenSearch deployment, encapsulating best practices for domain configuration, access policies, and encryption settings to enable consistent and secure search infrastructure across environments.
- Hardened cloud security posture by implementing AWS Secrets Manager to eliminate hardcoded credentials and enforcing IAM least-privilege policies to align with the AWS Well-Architected Framework.
- Implemented a comprehensive observability stack using Prometheus, Grafana, and OpenSearch, creating custom dashboards that reduced Mean Time to Resolution (MTTR) by proactively detecting system bottlenecks.
- Optimized database architecture for Amazon Aurora and Redis, implementing automated backups, read replicas, and connection pooling to ensure data durability and high performance under load.
- Led the containerization strategy using Docker and ECR, standardizing runtime environments across local, staging, and production to eliminate "works on my machine" issues.
- Conducted infrastructure cost analysis and rightsizing, utilizing AWS cost explorer and lifecycle policies to optimize resource usage, resulting in improved budget efficiency.
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- Streamlined application logging architecture using AWS CloudWatch Logs and Fluentd, centralizing log aggregation and enabling efficient troubleshooting across distributed services.

- Established disaster recovery runbooks and conducted regular failover drills, ensuring business continuity and maintaining RPO/RTO targets for mission-critical applications.

#### **Jr. Cloud Engineer, Adex International Pvt. Ltd., Nepal | Apr 2024 - Jul 2025**

- Migrated 10+ applications to AWS, ensuring a seamless transition and minimal disruption.
- Collaborated closely with clients to understand their needs and deliver the expected outcomes.
- Enforced AWS Tag Policies to identify wasted resources, resulting in optimized spend and improved budget allocation.
- Enabled zero-downtime deployments by implementing automated CI/CD workflows with immediate rollback capabilities.
- Architected secure network topologies utilizing custom VPCs, private subnets, and Security Groups to ensure strict traffic isolation and data protection.
- Conducted research, analysis, and documentation for AWS Service Delivery Program compliance and AWS Competency Program, establishing best practices and configurations.

## **PROJECTS**

### **Infix [ <https://infix.cloud/> ]**

- Built and operated a highly available Kubernetes cluster using kubeadm, configuring multiple control plane nodes, etcd, and core components (API Server, Scheduler, Controller Manager) to eliminate single points of failure.
- Deployed and managed application workloads using Helm, enabling standardized, versioned releases with rolling updates and rollback capabilities.
- Configured Kubernetes networking components, including CNI, Services, and Ingress controllers for reliable internal communication and external traffic routing.
- Enabled zero-downtime deployments by implementing automated CI/CD workflows with rollback capabilities.
- Implemented cluster reliability and scaling mechanisms, including liveness/readiness probes, pod anti-affinity, and horizontal scaling strategies.
- Enforced operational and resource governance through RBAC, namespaces, ConfigMaps, Secrets, and CPU/memory requests and limits to ensure secure and stable cluster operations.

### **Lasius [ <https://lasius.io/> ]**

- Deployed Dev, Staging, and Prod AWS infrastructure with Terraform (ECS Fargate, ALB, Aurora, Redis, ECR), ensuring high availability.

- Implemented AWS Secrets Manager for secure secret injection into containers, eliminating hardcoded credentials and improving security compliance.
- Automated CI/CD pipelines with GitHub Actions, enabling automated rollbacks.
- Established service discovery, security groups, and IAM roles, enforcing least-privilege access for microservices.
- Created architecture documentation and runbooks, improving handover efficiency and operational consistency.

## SKILLS

- **IaC:** Terraform, Ansible, Cloudformation
- **Cloud:** AWS, Linode, Azure
- **Version Control:** GitHub, GitHub Actions, GitLab
- **Database:** DynamoDB, MySQL, PostgreSQL
- **Scripting and Automation:** Python, Bash
- **Monitoring:** Cloudwatch, Grafana, Prometheus

## TRAINING and CERTIFICATIONS

- [AWS Certified Solution Architect Associate](#)

## EDUCATION

Texas International College

2022-2025 | Kathmandu, Nepal

**LANGUAGES:** English, Nepali