ANIMESH JHA

DevOps Engineer

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LinkedIn | GitHub | Portfolio

Professional Summary

DevOps Engineer with hands-on experience supporting Linux-based infrastructure, CI/CD pipelines, containerized applications, production deployments, reverse proxy configuration, and database operations. Experienced with Linux, Ubuntu, Jenkins, Docker, Git, Nginx, PostgreSQL, and AWS cloud concepts. Skilled in application deployment, service monitoring, backup and recovery, infrastructure troubleshooting, and collaborating with development and QA teams to maintain reliable application environments.

Technical Skills

Cloud Platforms
Amazon Web Services (AWS): EC2, ECR, IAM, VPC, Security Groups, S3, CloudWatch

Containerisation
Docker, Kubernetes, Minikube

CI/CD & DevOps
Jenkins, GitHub Actions, GitLab CI/CD, Git, GitOps

Web Server & Reverse Proxy
Nginx, IIS

Networking
TCP/IP, DNS, HTTP/HTTPS, SSH, Ports, Subnetting

Scripting
Bash, Python

Database Infrastructure & High Availability
PostgreSQL, Streaming Replication, WAL, pg_basebackup, pgBackRest, PgBouncer, Backup & Restore, Point-in-Time Recovery (PITR)

Monitoring & Observability
Prometheus, Grafana,Linux Logs, journalctl, pg_isready, curl, Application Health Checks, Service Monitoring

Operating Systems
Ubuntu, Windows

Professional Experience

Junior DevOps Engineer — **May 2025 – Present**
Technology Innovation Nepal Pvt. Ltd — *Kathmandu,Nepal*

- Administer and support Linux and Ubuntu-based application servers, including service management, log analysis, resource monitoring, and system troubleshooting.
- Support Jenkins-based CI/CD workflows for automated application build, deployment, and release processes.
- Deploy and maintain Docker-based application environments, including container lifecycle management, image management, networking, and troubleshooting.
- Configure and maintain Nginx as a reverse proxy for frontend, backend, and API services.
- Support application deployments across development, testing, staging, and production environments.
- Monitor application services, server availability, network connectivity, ports, and system health to identify infrastructure and application issues.
- Manage Linux services through systemd and automate scheduled operational tasks using cron.
- Support PostgreSQL backup, restoration, connectivity, configuration, replication, and availability monitoring.
- Maintain Git-based source-code and deployment workflows, including branching, merging, and deployment-related changes.
- Troubleshoot deployment failures, Linux services, network connectivity, reverse proxy configuration, and application availability in collaboration with development and QA teams.

Projects

Multi-Tier Application Deployment *Docker | Docker Compose | Nginx | FastAPI | PostgreSQL*

- Built and deployed a containerized multi-tier application using Docker and Docker Compose.
- Containerized application and PostgreSQL services and configured reliable communication between containers.
- Configured Docker networks, persistent service connectivity, and application-to-database communication.
- Configured Nginx as a reverse proxy to route incoming requests to the backend application service.
- Managed application source code and version control through Git and GitHub.
- Performed deployment validation and troubleshooting within a Linux environment.

PostgreSQL Streaming Replication Environment *Linux | PostgreSQL | WAL | pg_basebackup | Networking*

- Designed and configured a PostgreSQL primary and standby replication environment on Linux servers.
- Implemented WAL-based streaming replication to synchronize database changes between primary and standby instances.
- Initialized the standby server using `pg_basebackup` and configured replication parameters.
- Configured PostgreSQL authentication, ports, network connectivity, and replication-related server settings.
- Validated replication status and monitored synchronization between database nodes.
- Practiced database high-availability, recovery, connectivity, and infrastructure troubleshooting concepts.

Jenkins CI/CD Pipeline for Containerized Application *Jenkins | Git | Docker | Linux*

- Implemented a Jenkins CI/CD pipeline for building and deploying a containerized application.
- Integrated Git-based source control with Jenkins to automate application build workflows.
- Automated Docker image creation as part of the CI/CD pipeline.
- Deployed application containers to a Linux environment through automated pipeline stages.
- Added post-deployment application health checks to verify deployment success.
- Troubleshot Jenkins pipeline failures, Docker containers, application services, and deployment issues.

Education

Bachelor of Technology (B.Tech) in Computer Science & Engineering **2019 – 2023**
C. V. Raman Global University *Bhubaneswar, India*

CPI: 8.39 / 10

Certifications

- **AWS Academy Cloud Foundations**
- **Cisco CCNA** – Three Course Certificates