

Khairul Islam

Network & System Engineer | Cloud Infrastructure | Infrastructure Support

Address: Agargaon, Dhaka

Mobile: 01990084651

Email: khairul4651@gmail.com

Professional Summary

Infrastructure-focused Network & System Engineer with hands-on experience in designing secure, scalable, and highly available cloud environments. Skilled in production infrastructure monitoring, enterprise networking, Linux administration, and infrastructure optimization with a strong focus on reducing operational costs, improving system performance, and strengthening security. Passionate about building resilient infrastructures capable of supporting business growth while maintaining maximum uptime, operational efficiency, and long-term sustainability.

Core Competencies

- Cloud Infrastructure Design
- Enterprise Networking
- Linux System Administration
- Infrastructure Optimization
- Cloud Cost Optimization
- High Availability Architecture
- Performance Optimization
- Capacity Planning
- Infrastructure Security
- Infrastructure Monitoring
- Incident Management
- Root Cause Analysis (RCA)
- Disaster Recovery Planning
- Infrastructure Documentation
- Operational Excellence
- Technical Problem Solving

Professional Experience

Cloudly InfoTech Limited

DevOps Intern | 03 May 2026 – Present

Key Responsibilities

1. Designed scalable, secure, and highly available cloud infrastructure to support business growth while ensuring maximum application uptime and service reliability.

2. Planned production-ready network architectures with efficient CIDR allocation, subnet segmentation, routing strategies, and security controls to build reliable enterprise environments.
3. Optimized infrastructure utilization by identifying unused resources, rightsizing workloads, and recommending cost-effective cloud improvements.
4. Improved infrastructure resilience through high availability design principles and fault-tolerant architecture recommendations.
5. Monitored production environments proactively to identify infrastructure bottlenecks before customer impact.
6. Strengthened infrastructure security by implementing layered network segmentation, least-privilege access control, and secure communication practices across production environments.
7. Evaluated existing infrastructure and proposed modernization strategies to improve scalability, operational efficiency, long-term maintainability, and future business expansion.
8. Supported continuous production monitoring by analyzing infrastructure health, server performance, application metrics, and operational trends to proactively detect and resolve potential issues.
9. Investigated production incidents, prepared Root Cause Analysis (RCA) reports, and documented preventive actions to reduce recurring operational problems and improve service stability.
10. Recommended infrastructure improvements that increased system performance, optimized resource utilization, enhanced security posture, and reduced unnecessary cloud expenditure.
11. Developed technical documentation, operational reports, infrastructure standards, and implementation guidelines to improve operational consistency and knowledge sharing.
12. Contributed to building resilient infrastructure capable of supporting high user traffic while maintaining performance, availability, and business continuity under increasing workloads.
13. Reduced infrastructure costs by identifying unused resources, eliminating unnecessary cloud consumption, and recommending cost-efficient architecture improvements while maintaining production performance.
14. Assisted in evaluating business requirements and recommending scalable, secure, and cost-effective infrastructure architectures aligned with operational and future growth objectives.

Technical Projects

Production Cloud Infrastructure Architecture

Designed a production-ready cloud infrastructure with structured IP planning, secure network segmentation, high availability, fault tolerance, and future scalability to support enterprise business applications.

Enterprise Multi-Network Connectivity

Designed secure communication between isolated production environments using centralized routing principles while maintaining security, network isolation, and operational efficiency.

Containerized Enterprise Application Platform

Implemented a containerized application platform to improve deployment consistency, simplify application management, and enhance portability across environments.

High Availability Cluster Deployment

Designed a resilient clustered application hosting environment capable of distributing workloads efficiently while improving fault tolerance and application availability.

Deployment Automation Pipeline

Built an automated deployment workflow to reduce manual intervention, improve deployment consistency, and accelerate software delivery processes.

Production Monitoring & Observability

Implemented centralized infrastructure monitoring to provide real-time visibility into server health, resource utilization, application performance, and operational trends.

Cloud Infrastructure Cost Optimization

Performed infrastructure assessments to identify underutilized resources, improve utilization efficiency, reduce unnecessary cloud spending, and recommend cost-effective architectural improvements.

Technical Skills

- Cloud Infrastructure
- Enterprise Networking
- Linux Administration
- Infrastructure Operations
- Infrastructure Optimization

Education

B.Sc. in Computer Science & Engineering
Sonargaon University

Certifications

KodeKloud - DevOps
KodeKloud - Networking