



Your Partner in Software Development, IT,
Data Science, AI, Cybersecurity & Research

Company Overview

Noor Hikmah Ltd. is a private limited company specializing in Software Development, Data Science, Artificial Intelligence, Research, Cybersecurity, and IT Consultancy. We are dedicated to delivering innovative, secure, and scalable solutions tailored to the unique needs of businesses, government bodies, and organizations.

Our vision is to create sustainable impact by leveraging the latest information technology and scientific innovation, empowering enterprises to transform digitally while staying resilient in an AI-driven future.

We operate with a dual strength:

- **Noor Hikmah**: Noor Hikmah's flagship AI brand, focused on building next-generation AI software and agentic AI solutions.
- **Tirzok Private Ltd.** → Our strategic technology partner, powering enterprise-class cloud, DevOps, storage, telecom, and cybersecurity solutions.

Focus Areas

- **Agentic AI Services**: Intelligent systems that operate autonomously, make dynamic decisions, and adapt to changing environments.
- **AI Tutors**: Applications like **BBA AI Tutor** and **Meeting Minutes AI**, supporting education and enterprise knowledge management.
- **Computer Vision**: Image & video analysis, object detection, OCR, facial recognition, and real-time insights for security, automation, and analytics.
- **Robotic Simulation**: Design, testing, and optimization of robotic systems in virtual environments, reducing costs and improving performance.

Offers

- **AI-Powered Automation** → streamline operations.
- **Decision-Making Intelligence** → support strategic planning.
- **Autonomous AI Agents** → optimize workflows, reduce human intervention.

Noor Hikmah

empowers organizations to innovate faster, work smarter, and stay ahead in the AI-driven era.

Our Strategic Partner – Tirzok Private Ltd.

Tirzok is one of Bangladesh's leading IT solution providers, with expertise in Cloud Computing, DevOps, Storage, Security, and Telecom. As Noor Hikmah's strategic partner, Tirzok enhances our service capability with robust infrastructure and enterprise solutions.



Key Capabilities

• Cloud Services

- Multi-Region Support (Single, Dual, Active-Active, Independent).
- Deployment Models: Hyper-Converged, Converged, Distributed.
- Public Cloud: Virtual Machines, VPN-as-a-Service, SDN, Block & Object Storage, Security Groups.

• DevOps Services

- Infrastructure management, CI/CD, Kubernetes orchestration.
- Migration, application management, compliance, disaster recovery.
- Database advisory and scalable storage solutions.

• Storage Solutions

- Ceph & Swift-based Object/Block storage.
- High availability, multi-region redundancy, software-defined storage.

• Monitoring & Security

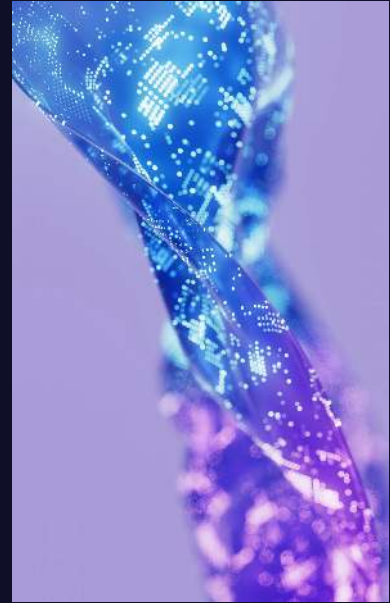
- Log management with Grafana, Prometheus, Nagios, ELK stack.
- **SIEM Security** with Wazuh, Suricata, VirusTotal – ensuring compliance, endpoint protection, and proactive threat intelligence.

- **Software Development & Consultancy**

Custom software, mobile/web apps,
UI/UX, prototyping, software load
testing.

- **BICC Telecom Solutions**

- Advanced BICC-SIP, IVR, Call
Alert systems for telecom
operators.
- Supporting 2+ billion calls
annually, used by leading telcos in
Bangladesh.



Services & Solutions

Noor Hikmah Ltd. (Core IT)

- **Software Development** – secure, scalable, and innovative applications.
- **Web Development** – dynamic and user-friendly websites.
- **Data Science** – predictive modeling, analytics, AI-driven insights.
- **Research** – machine learning, NLP, vision, scientific AI innovation.
- **Cybersecurity & IT Consultancy** – secure digital transformation.

- Agentic AI Systems
- AI Tutors (BBA Tutor, Meeting Minutes AI)
- Computer Vision Solutions
- Robotic Simulation Platforms

Tirzok (Strategic Partner)

- Cloud Computing (IaaS, SaaS, VPNaaS)
- DevOps & Kubernetes Orchestration
- Storage (Ceph, Swift, Software-Defined)
- SIEM Security & Threat Intelligence
- Telecom BICC Solutions

Clients & Landmark Projects

Tirzok, as our strategic partner, brings strong enterprise credibility:

- **Government & Public Sector**
Clients: Bangladesh Computer Council, BIDA, myGov, a2i, BRAC University, BUET, and others.
- **Enterprises & Banks:** Alliance Bank, OrangeBD, Miaki, RouteMobile, Vivasoft, Vertical Innovations.

Landmark Cases

- **Surokkha Deployment:** 120M+ users, 5M+ registrations, high-performance MySQL NDB cluster.
- **MNPSP Platform:** National SMS hub, PostgreSQL multi-master data center, supporting millions of SMS daily.
- **Robi Jhotpot Service:** 4,000+ concurrent voice calls, hundreds of millions of calls annually.
- **RingID Support:** Management of 700+ servers, CI/CD pipelines, large-scale distributed infrastructure.



Compliance & Certifications

- ISO 9001:2015 Certified
- ISO 27001 Certified
- BASIS Member
- e-CAB Member
- GDPR, HIPAA, PCI DSS, CIS, NIST compliant (through Tirezok).

Impact & Achievements

- **2 Billion+ Calls supported annually** (through TBS).
- **120 Million+ People served** through the Surokkha platform.
- **3,000+ Servers handled.**
- **300+ Clients served** with dedicated support.
- **15+ Government & corporate projects** successfully completed.

Why Choose Noor Hikmah Ltd.?

- **End-to-End IT & AI Solutions:** From software to AI agents.
- **Proven Expertise:** Strong portfolio of AI products, cloud services, and enterprise projects.
- **Strategic Partnerships:** Backed by Tirezok's enterprise-grade solutions.
- **Innovation-Driven:** Digitvisit leading the AI frontier.
- **Compliance & Security:** Certified, secure, and reliable.
- **Client-Centric:** 24/7 support, cost-effective, and scalable solutions.



Contact Us

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👉 Strategic Partner - Tirzok Private Ltd. : www.tirzok.com

our strategic partner

Tirzok Private Ltd.





TIRZOK

CORPORATE PROFILE

Products & Services

Innovating with Confidence:

**Code to Cloud Solutions for High-Volume Data,
Ensuring Customer Happiness and Robust Security.**



**Cloud
Computing**



**DevOps
Service**



**Software
Development**



**BICC
Solution**

Tirzok Openstack Private Cloud Solution (TOPCS)



Tirzok Private Cloud, built on the robust OpenStack framework with Ceph storage, offers a flexible and scalable infrastructure designed for modern businesses. This comprehensive solution facilitates the creation, management, and orchestration of private cloud environments while ensuring efficient deployment of applications and maintaining high levels of security and compliance. Our features include infrastructure monitoring with Prometheus and Grafana, centralized logging and auditing through Rsyslog, and log processing via an ETL pipeline using the ELK Stack. Additionally, we enhance security with SIEM provided by Wazuh and ensure proactive management through alerts generated by Nagios, empowering businesses to innovate and grow without the limitations of traditional infrastructure.

Key Features

 VM Management	 Resource Monitor	 Security Analysis	 Volume Management	 Object Storage
 Snapshot Backup	 Networks	 Load Balancing	 Dynamic Placement	 Dashboard
 Shared File System	 Telemetry	 Database	 Container Management	 Cloud Orchestration

Compliance



Benefits:

- Efficiently Balanced Workload
- Unbeatable Cost Savings
- Proven Track Record
- Best-in-Class Support : 24/7 Support
- High Availability
- Self-Healing and Auto-scaling
- Enhanced Security Measures
- Smooth Upgradation Process

Multi-Region Support:

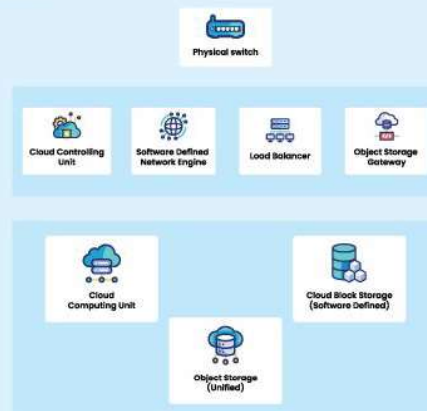
- Single Region
- Dual Region DC-DR
- Multi Region Active-Active
- Multi Region Independent

Deployment Model:

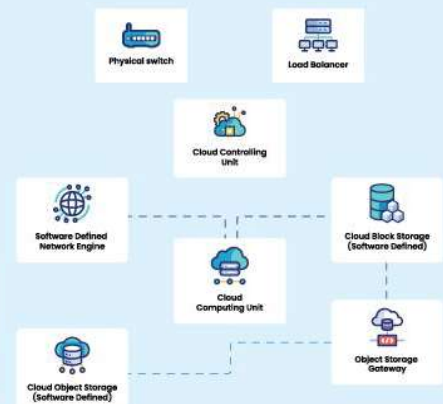
Hyper Converged (Compact Solution)



Converged (Optimized Solution)



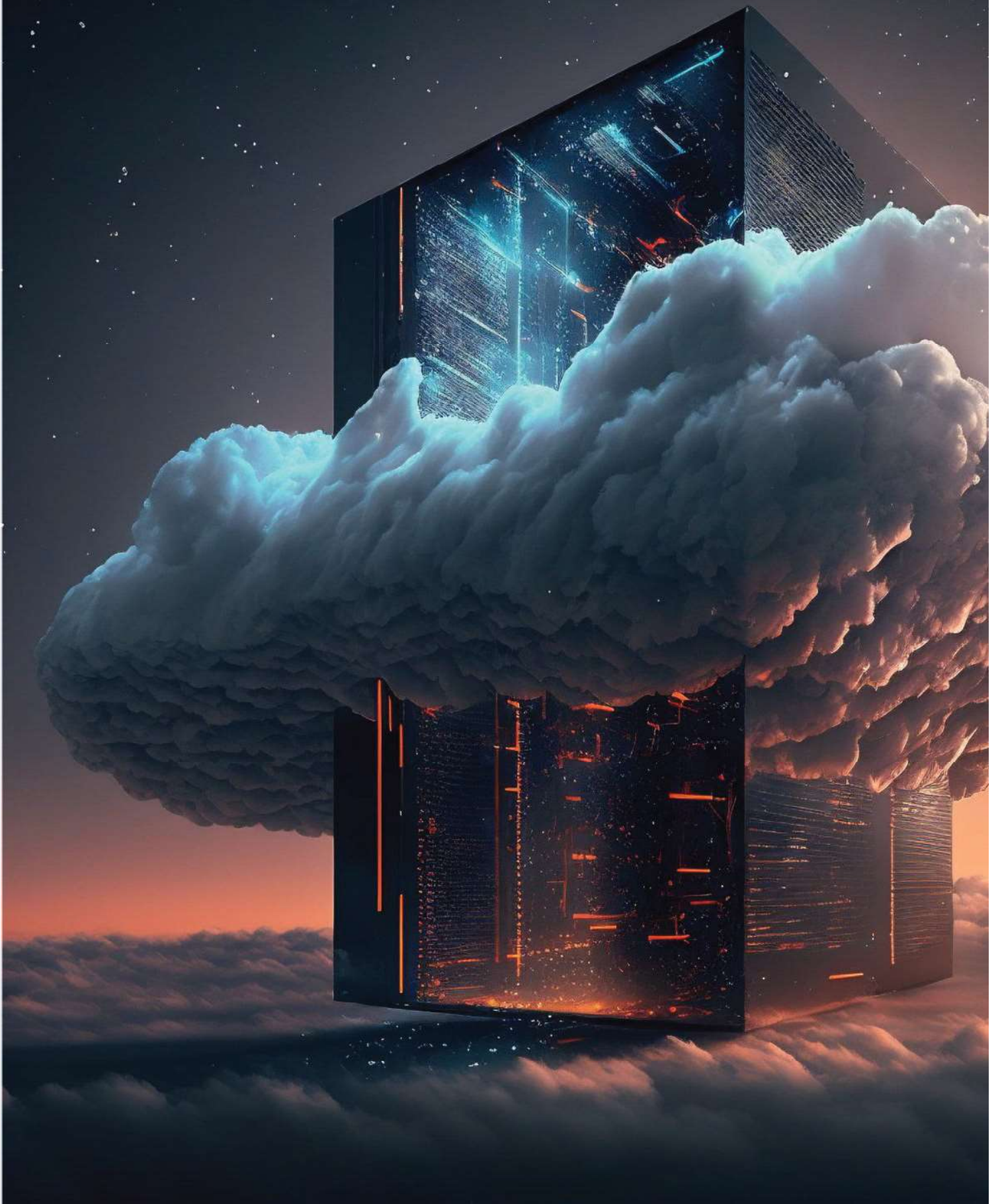
Distributed (Corporate Solution)



Website:

www.tirzokprivatecloud.com

Public Cloud



Unleash your potential with the power of Tirzok Cloud

Tirzok Cloud has been launched with a clear vision to empower mission-critical business imperatives through cutting-edge cloud technology. As a leading Public Cloud Service Provider, Tirzok Cloud delivers robust, scalable solutions designed to meet the unique demands of modern enterprises. With a strong emphasis on performance, our platform leverages low-latency connectivity via BDIX, ensuring seamless access and rapid data transfer for users across Bangladesh. Hosted locally, Tirzok Cloud not only enhances data sovereignty but also optimizes response times, enabling businesses to operate with unmatched efficiency. Our comprehensive suite of services includes infrastructure as a service (IaaS), flexible resource

Services:



Virtual Machine (VM)



VPN-as-a-Service
(VPNaaS)



Software Defined
Networking (SDN)



Virtual Router (VR)



Cloud Block Storage
(CBS)



Security Group

Benefits:

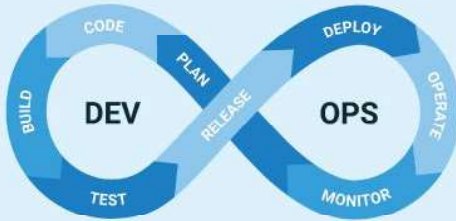
- Data Center in Bangladesh
- BDIX Supported
- Full SSD-based storage
- Full Root Access

- All Linux Variants
- Best Technical Support
- 24/7 Customer Support
- Easy Payment Method: Cash, bKash, Nagad

Website:

www.tirzokcloud.com

DevOps Services



Tirzok Private Limited is one of Bangladesh's leading DevOps Service Providers, delivering a comprehensive suite of solutions tailored to meet the diverse needs of businesses. Our services encompass infrastructure management, system migration, application management, security management, compliance management, disaster recovery, and business continuity. With years of industry experience and a proven track record, Tirzok Private Limited is a trusted partner for organizations seeking reliable DevOps services. We provide the expertise, scalable solutions, and robust security measures necessary to drive your success, all while ensuring cost-effectiveness and dedicated support.

Services:



Infrastructure Management

Expert in secure, scalable private cloud solutions, tailoring data excellence and infrastructure.



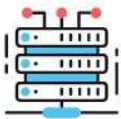
System Deployment & Management

Free your team with Tirzok's DevOps service. Tailored practices, automation, and seamless delivery.



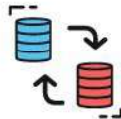
Container Orchestration

Tirzok optimizes Kubernetes to enhance agile app delivery with seamless deployment, efficient cluster management, and superior performance, enabling you to focus on growth.



Database Advisory

Tirzok simplifies data complexities, making it accessible and transformational for your business. Trust our experts.



Storage Solution

Tirzok provides top-tier Ceph consultancy, covering File, Block, and Object Storage for scalability and resilience.



Migration

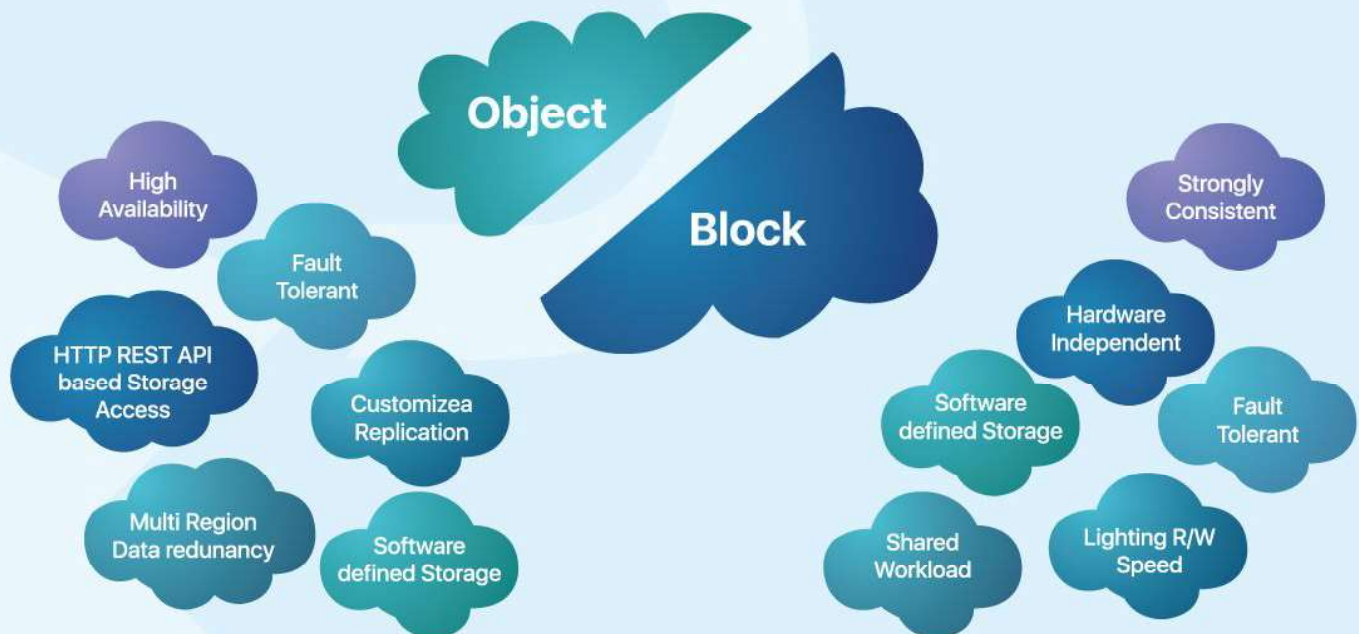
Effortlessly transition your entire infrastructure for optimized performance, scalability, and enhanced security measures.

Website:

www.tirzokdevops.com

Your Expert in Storage Solutions

Tirzok provides premium consultancy services for Ceph and OpenStack Swift, leveraging Exabyte scalability alongside a robust data replication system. Our proficiency in Software Defined Storage (SDS) on commodity hardware guarantees cost-effective solutions. With a self-healing, self-managed strategy, we offer File Storage, Block Storage, and Object Storage designed to drive your business towards success.



Website:

www.tirzokdevops.com

Log Management & Monitoring

**Nagios®****Prometheus**

Log management and monitoring have become critical components of infrastructure and security intelligence for organizations of all sizes. Effective implementation of these tools can prevent incidents such as data breaches, system downtime, performance inconsistencies, excessive costs, and compliance violations, thereby enhancing operational resilience and safeguarding organizational assets.

Holistic Monitoring: **The Power** of **Full-Stack** Observability

Features:

- Centralized Log Collection
- Real-Time Monitoring
- Search and Query Capabilities
- Automated Alerts and Notifications
- Dashboards and Visualization
- Log Retention and Storage Management
- User Management and RBAC
- API Access and Extensibility
- Historical Data Analysis
- Incident Response Capabilities



Services:



IT Monitoring

Unlocking Insights: Real-Time and Trends
Monitoring in IT Operations



Alert System

Proactive Protection: The Role of
Monitoring Systems in
Risk Management.



Log Search & Management

Transforming Data into Action: Easy
Log Search and Graph Visualization

Security Information and Event Management (SIEM)

Unified **XDR** and **SIEM** protection for **endpoints** and **cloud workloads**.

Tirzok delivers an advanced Security Information and Event Management (SIEM) service that integrates a suite of open-source tools, including Wazuh, Suricata, VirusTotal, and MISP. Wazuh enhances log analysis and compliance reporting, while Suricata provides powerful network threat detection. VirusTotal aids in malware analysis, enabling rapid identification of suspicious files, and MISP facilitates threat intelligence sharing for improved collaboration. By harnessing these open-source technologies, Tirzok empowers organizations to proactively monitor their security posture, swiftly respond to incidents, and enhance overall threat management, all while optimizing costs and resources.



Capabilities:

Endpoint Security

- Configuration Assessment
- Malware Detection
- File Integrity Monitoring

Security Operations

- Incident Response
- Regulatory Compliance
- IT Hygiene

Threat Intelligence

- Threat Hunting
- Log Data Analysis
- Vulnerability Detection

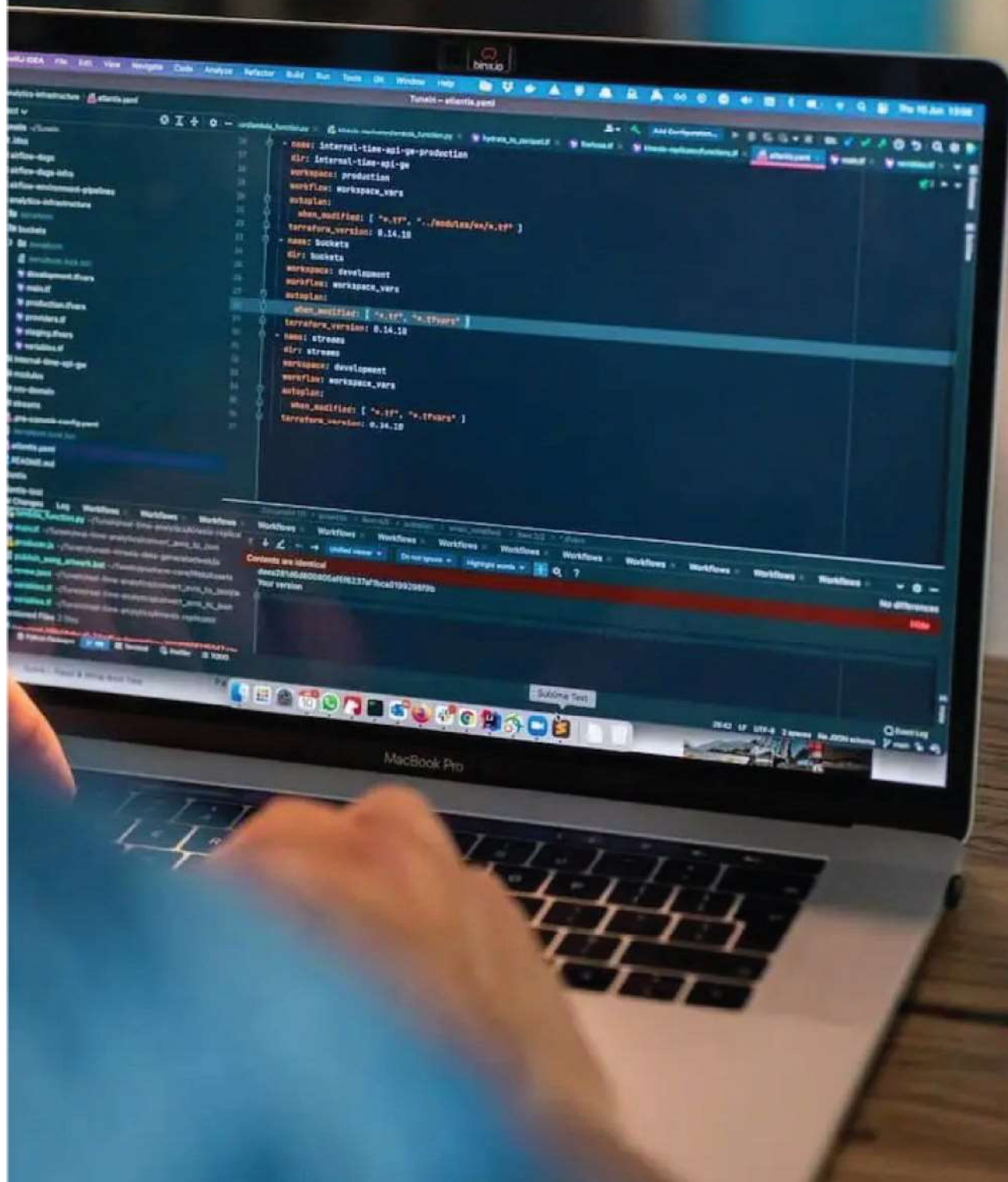
Cloud Security

- Container Security
- Posture Management
- Workload Protection

Features:

- Alerting and notification
- Reporting insights from SIEM events

Software Development & Consultancy



Software Development & Consultancy

Java
Python
SpringBoot
Django
ReactJS
Flutter
AngularJS
NodeJS
C/C++

We develop customized software solutions, harness advanced analytics for data-driven insights, and specialize in large-scale software design and development. Our expertise in cutting-edge cloud technologies empowers your business to transform and unlock new possibilities.

Services:



Custom Software
Development



Web Application
Development



Mobile Application
Development



Software
Prototyping



UI/UX - Quality
Assurance



Software
Load Testing

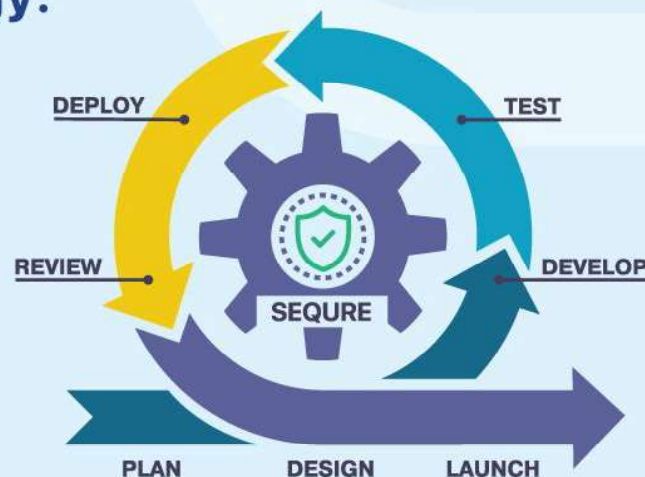


Software
Consultancy



Software
Deployment

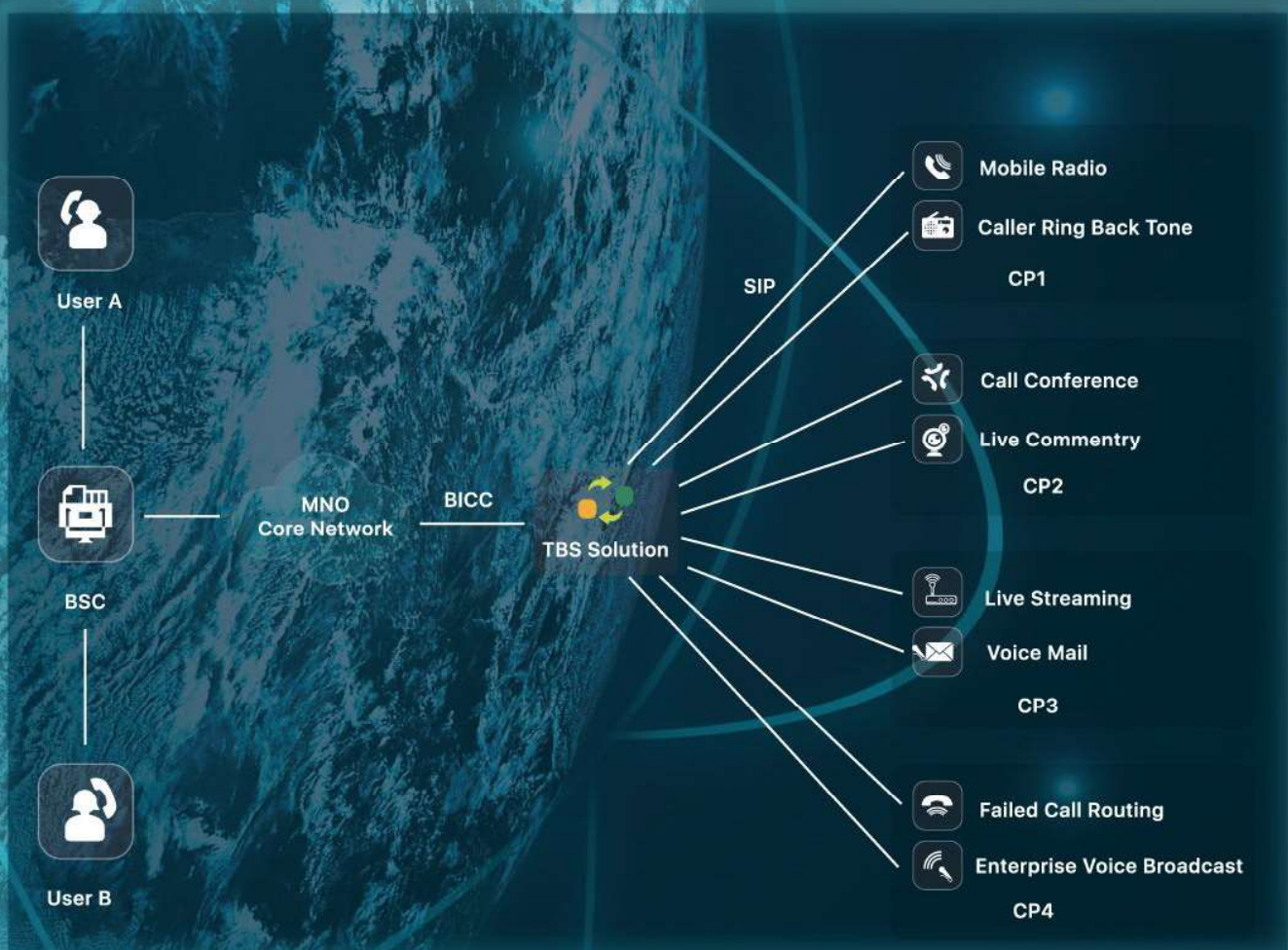
Methodology:



Website:

www.tirzok.com

BICC Solution



Tirzok BICC Solution

IVR
Beep
Call Alert
SCTP
UDP
M3UA
BICC
HTTP
RTP
luUP

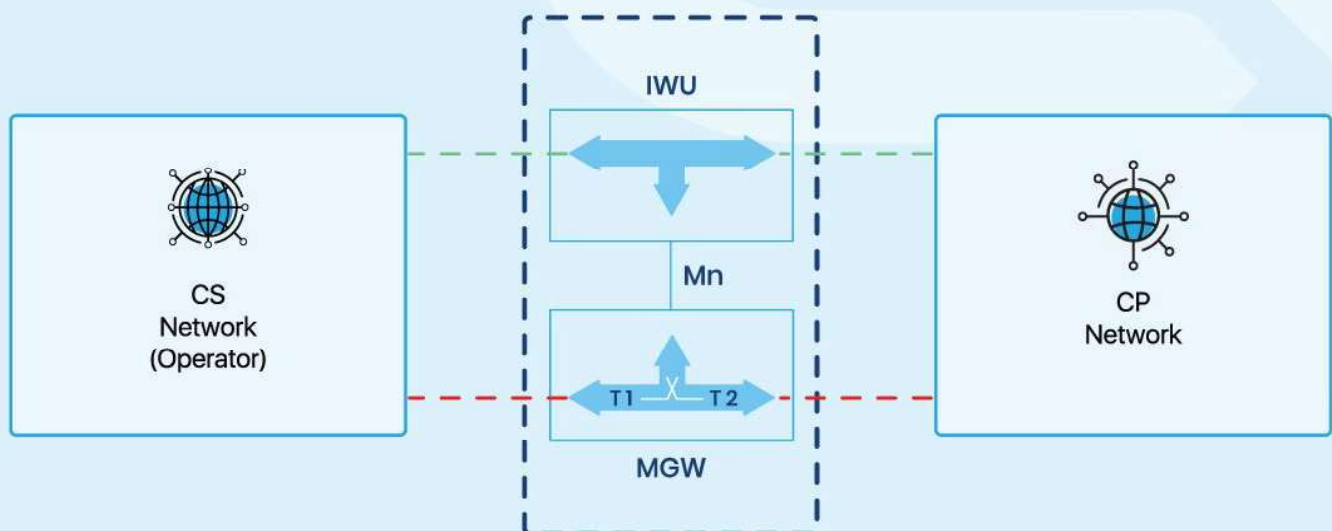
Tirzok BICC Solution offers proven capabilities with BICC-SIP, BICC-IVR, BICC-Beep, and BICC-Call Alert solutions. Our comprehensive protocol stack includes SCTP, UDP, M3UA, BICC, SIP, HTTP, RTP, and luUP, ensuring robust performance and compatibility. We provide a customizable IVR platform tailored to the specific needs of VAS providers. Designed with scalability and modularity in mind, our distributed interface features a loosely coupled architecture, allowing for extensive configuration to meet user requirements effectively.

Industries:

Mobile Network Operator (MNO)
Value Added Service (VAS) provider
Content Provider (CP)
Enterprise Customer

Scope:

- Control Plane Scope (Signaling):
 - ✓ Inter-operate with Operator Network via BICC
 - ✓ Inter-operate with CP/SP via SIP
 - ✓ Inter-operate with IW-MGW via H.248/Megaco
- User Plane Scope (RTP-Media):
 - ✓ Inter-operate with Operator Network via luUP (Nb FP)
 - ✓ Inter-operate with CP/SP via RTP



Website:

www.tirzok.com

Clients



Our Valuable Clients



Landmark Cases

FINANCIAL
TECHNOLOGY





1. Surokha Deployment:

A Milestone in Bangladesh's Digital Landscape : The Surokha deployment represents one of the largest systems ever implemented in Bangladesh, successfully managing approximately **5 million** registrations on its opening day and accumulating around **120 million** users to date. It features robust infrastructure capable of handling the highest volume of API calls in the country's history, reaching around **250,000 per hour**. A high-performance **MySQL NDB Cluster**, consisting of 24 nodes, was deployed to meet real-time load requirements. Additionally, Tizok provides 24/7 monitoring, deployment, and troubleshooting support to ensure seamless operation and reliability.

2. MNPSP Platform:

Revolutionizing SMS Services in Bangladesh: The MNPSP Platform serves as the central SMS hub for aggregators, PSTNs, and IPTSPs, seamlessly connecting with Mobile Network Operators (MNOs). Capable of processing hundreds of millions of SMS messages daily, it features a robust disaster recovery infrastructure with **active-active data center** configurations and a **multi-master PostgreSQL** database for high availability and performance. The platform facilitates Mobile Network Portability checks and content validation for promotional SMS. Built on a microservice architecture, it supports high concurrency and is backed by 24/7 monitoring and troubleshooting assistance, ensuring seamless operations.



3. Jhotpot Emergency Balance Service

Tizok Partners with Optasia for Robi's Jhotpot Emergency Balance Service. This advanced BICC-based VAS platform offers robust signal and media conversion capabilities, enabling it to handle over **4,000 concurrent** voice calls with high throughput. It efficiently manages **hundreds of millions of calls daily** and integrates seamlessly with IVR systems while adhering to telco protocols. With features such as BICC-SIP for outbound and inbound dialing, BICC-IVR, and BICC-Beep, the service enhances user experience and delivers valuable business insights through its sophisticated graph platform.

4. RingID Social Media

Tizok Supports the Platform with Essential Maintenance Services. This collaboration encompasses the management of **over 700 servers** running various Linux distributions, along with numerous **open-source** components and distributed systems. Tizok provides comprehensive infrastructure management and OpenStack-based private cloud solutions, as well as the deployment and maintenance of clusters such as Cassandra, ScyllaDB, OpenStack Swift, MySQL NDB Cluster, MariaDB Galera, Apache Hadoop, and Apache Solr. A robust monitoring platform supports historical metrics analysis, forecasting, and visualization, while a CI/CD pipeline established through Jenkins streamlines development processes.



SCALABILITY • AFFORDABILITY • SECURITY & SUPPORT



Our Impact

3+

Long Term
Business Partnership



3000+

Servers
Handled

2 Billion+

Calls supported
annually
through TBS



1.3 Million+

Students supported on the day
results are published through
our Public Cloud services

120M+

People Served
Through Surokkha



15+

Government and corporate
projects successfully
completed.

300+

Clients served with
dedicated support

Members :



Certification :





TIRZOK'S

PROJECT

OVERVIEW

www.tirzok.com

Projects List (Software Development & DevOps)

Project Name

Core System
(Portals & Billing Engines)
Migration to NDC Cloud

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Deployment Integration with Banks, MFS, TGTDPCL HQ
- Data Migration (without data loss or business impact)
- Ensure Data Backup (inside and outside of NDC Cloud)
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform

Client Name

Titas (TGTDC),
Bangladesh Computer Council
(BCC)

Development Activities

- Reverse Engineering
- Codebase Tweaking
- Change adaption on new business requirements

Project Status

Delivered

01



Project Name

Surokha (COVID-19
Vaccination Management System)
Deployment & Maintenance

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Deployment of all the applications
- Ensure Data Backup (inside and outside of NDC Cloud)
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Client Name

Directorate General of Health
Services (DGHS), Bangladesh
Computer Council (BCC)

Development Activities

N/A

Project Status

Running on Support

02



Project Name

BDRIS API Connectivity
Manager (ACM) Deployment
and Configuration

DevOps Activities

- Deployment of NGINX API Connectivity Manager (ACM) for BDRIS
- Configuration and production go live of all the Birth and Death Registration API on ACM

Client Name

Office of the Registrar General,
Birth & Death Registration,
OMEGA EXIM LTD.

Development Activities

N/A

Project Status

Delivered

03



Project Name

Core System
Maintenance and
Support (AMC)

Client Name

Titas (TGTDCL) &
Bangladesh Computer
Council (BCC)

Project Status

Running on Support

DevOps Activities

- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Development Activities

- Change Request (CR) Development

04



BANGLADESH
COMPUTER
COUNCIL
COMPUTER FOR EVERYTHING

Project Name

Titas Gas OSS Platform
Development & Integration with
BIDA OSS Platform

Client Name

Titas Gas (TGTDPLC), Bangladesh
Investment Development Authority
(BIDA), Bangladesh Computer
Council (BCC)

Project Status

Delivered

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Ensure Data Backup (inside and outside of NDC Cloud)
- Visualization, Service Alert and Log Analyzing Platform

Development Activities

- Portal development for industries & captive users
- Approval system to minimize paper works
- BIDA-OSS Integration for real time update for BIDA personnel and customers
- SonaliPay Integration for online payment

05



Project Name

VaxEPI (Central Vaccination System)
Deployment and Support for HPV
Vaccine Campaign

Client Name

UNICEF, Directorate General
of Health Services (DGHS)

Project Status

Running on Support

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Development Activities

N/A

06



unicef

Project Name

Core System Migration
to NDC Cloud

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Deployment Integration with BMET HQ, DEMO etc.
- Data Migration (without data loss or business impact)
- CICD Pipeline Establishment
- Ensure Data Backup (inside and outside of NDC Cloud)
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform

Client Name

Bureau of Manpower Employment
and Training, Bangladesh Computer
Council (BCC), B-Trac Technologies Ltd.

Development Activities

- Codebase Tweaking for Cloud Enabled
Deployment

Project Status

Delivered

07



Project Name

Janatar Sarkar

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Data Migration (without data loss or business impact)
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform

Client Name

Digital Literacy Center (DLC),
Bangladesh Computer Council (BCC),
EzzeTech

Development Activities

- A Intuitive Content Management System
(CMS)
- Citizen Portal Development to give
feedback on content
- Ministry/ Department Admin Portal
Development to upload and manage their
own content
- Analytics on user feedback

Project Status

Delivered

08



Project Name

MNPSP (Central SMS
Gateway Platform for A2P)

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Deployment Integration with MNO, Aggregators
- Initial Data Migration
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Client Name

Infozillion Teletech BD Ltd.,
Bangladesh Telecommunication
Regulatory Commission (BTRC)

Development Activities

- Central SMS hub for aggregators, PSTNs,
and IPTSPs, seamlessly connecting with
Mobile Network Operators (MNOs)
- Capable of processing hundreds of
millions of SMS messages daily
- Facilitates Mobile Network Portability
checks and content validation for
promotional SMS
- Built on a microservice architecture.
- Comprehensive dashboard with
analytics for ANSs, Aggregators, BTRC, LEA
etc.

Project Status

Running on Support

09



Project Name

MNPSP-Extension (Central SMS
Gateway Platform for A2P)

DevOps Activities

- Active-Active Database Cluster with PostgreSQL for BDR
- DC1-DC2-DR Network Integration
- DR Extension
- DC2 Environment Preparation and Platform Deployment
- DC1 Extension
- DC1-DC2-DR Sync

Client Name

Infozillion Teletech BD Ltd.,
Bangladesh Telecommunication
Regulatory Commission (BTRC)

Development Activities

- Make compatible for k8s deployment
- Optimize data schema, cache mechanism to reduce infra requirements
- More robust analytics and reports

**Project Status**

Running

10

Project Name

Storage Solution
Deployment with Ceph

DevOps Activities

- Deployment Design for Pettabyte scale storage with Ceph
- Prepare Physical Hardware to deploy Ceph Cluster
- Infrastructure Provisioning
- Ceph Cluster Deployment for 1 PB CephFS Filesystem

Client Name

BMIT Solutions Ltd.,
Press Information Department (PID)

Development Activities

N/A

**Project Status**

Delivered

11

Project Name

Binimoy (Interoperable
Digital Transaction Platform)

DevOps Activities

- NGINX Plus Active-Active Cluster Deployment for 3 Servers
- API specwise configuration in NGINX Plus
- NGINX Plus Monitoring Stack deployment
- Private CA server and certificate flow preparation
- All banks to BB integration over Private SSL
- LoadTest of Binimoy DirectPay api

Client Name

Bangladesh Bank,
Orion Informatics Ltd

Development Activities

N/A

**Project Status**

Delivered

12

Project Name

Software and System Migration
to NDC and Support Service

DevOps Activities

- Environment Preparation
- Deployment of 6 systems of BSEC
- Data Migration
- Ensure availability of services
- Troubleshooting on raised cases
- Visualization Platform enablement

Client Name

Bangladesh Securities
and Exchange Commission (BSEC)

Development Activities

- Codebase Tweaking for Deployment

**Project Status**

Running on Support

13

Project Name

Product & Production
Management System (PPMS)

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Client Name

Marks & Spencer

Development Activities

- Developed RMG Audit Automation System
- Automatic report generation & notification
- Android & iOS app for auditors
- Offline support & sync while internet available
- Dashboard with business analytics

Project Status

Delivered

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M & S
EST. 1884

Project Name

Tirzok Openstack Private
Cloud Solution (TOPCS)
PoC Deployment

DevOps Activities

- Physical Hardware Preparation
- Network Integration and Configuration
- Deploy a TOPCS (IaaS Private Cloud) with SSO Dashboard, Image Service, Compute Service, Networking Service and Block Storage Service

Client Name

BUET

Development Activities

N/A

Project Status

Delivered

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Project Name

Ansible Tower
Upgradation

DevOps Activities

- Ansible Tower Upgrade from 3.5 to 3.7 and then 3.7 to 3.8 for 1 node in UAT, 3 Nodes in DR and 3 Nodes in Production
- PostgreSQL Version Upgrade from 9.6 to 10.23 for 1 node in UAT, 2 nodes in DR and 2 nodes in Production

Client Name

WikiLabs (Malaysia),
Alliance Bank (Malaysia)

Development Activities

N/A

Project Status

Delivered

16



Project Name

IBM DB2 Hardening
ansible playbook

DevOps Activities

- Scanning Playbook Writing for IBM DB2 for RedHat and AIX servers
- Hardening Playbook Writing for IBM DB2 for RedHat and AIX servers

Client Name

WikiLabs (Malaysia),
Alliance Bank (Malaysia)

Development Activities

N/A

Project Status

Delivered

17



Project Name

Tirzok Openstack Private Cloud Solution (TOPCS)
Deployment at NDC for GRP and Migration
Government Resource Planning (GRP)
Platform to NDC Cloud

DevOps Activities

- Deployment Design with Service Level High Availability
- Deployment of Private Cloud (TOPCS) at NDC
- Deployment environment preparation for Production, UAT, Staging, SQTC and Training
- Build/Deployment of all the applications
- Deployment Automation through Ansible Playbook writing
- Migration of GRP to NDC Cloud
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Client Name

CoKreates,
Bangladesh Computer
Council (BCC)

Development Activities

N/A

Project Status

Delivered

18



Project Name

MyGov (Government Services
in One Address) Deployment and
Maintenance at BDCCL (TIER-4 Cloud)

DevOps Activities

- Deployment Audit of the Platform
- Infrastructure Provisioning on demand
- Environment Preparation for further deployment
- Performance Optimization and Tuning
- Establishment of CICD Pipeline
- Version Control System (VCS) enablement
- Integration with NID and other third-party APIs
- On-demand Data Migration
- Ensure Backup
- Troubleshooting on raised cases

Client Name

Orange Business Development Ltd.,
Aspire to Innovate (a2i)

Development Activities

N/A

Project Status

Delivered

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Project Name

NGINX Plus
Deployment

DevOps Activities

- NGINX Plus Deployment for 2 Servers
- API specwise configuration in NGINX Plus
- NGINX Plus Training
- NGINX Plus monitoring Stack deployment
- Eliminate Netflix Zuul-Eureka model through NGINX Plus API Gateway and token introspection

Client Name

DataSoft Ltd.

Development Activities

N/A

Project Status

Delivered

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Project Name

Tirzok Openstack Private Cloud
Solution (TOPCS) PoC Deployment

DevOps Activities

- Physical Hardware Preparation
- Network Integration and Configuration
- Deploy a TOPCS (IaaS Private Cloud) with SSO Dashboard, Image Service, Compute Service, Networking Service for Census
- Provision Infrastructure for HLS (Household Listing System)
- Prepare environment for HLS
- Deploy HLS in Private Cloud
- Prepare monitoring stack for cloud and HLS

Client Name

Bangladesh Bureau
of Statistics

Development Activities

N/A

Project Status

Delivered

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**Project Name**

Tirzok Openstack Private Cloud
Solution (TOPCS) PoC Deployment

DevOps Activities

- Physical Hardware Preparation
- Network Integration and Configuration
- Deploy a TOPCS (IaaS Private Cloud) with SSO Dashboard, Image Service, Compute Service, Networking Service and Block Storage Service

Client Name

Brac University

Development Activities

N/A

Project Status

Delivered

22

**Project Name**

Map Data solution for VPN
Tracking Platform with
OpenStreetMap and PostgreSQL

DevOps Activities

- Prepare Map database with PostGIS over PostgreSQL
- Upload arab Gulf and Bangladesh Map data
- Prepare API for Location Tracking over Map data based on Lon/Lat

Client Name

IBSS

Development Activities

N/A

Project Status

Delivered

23

**Project Name**

Virtualization and Mail
Server Migration

DevOps Activities

- Prepare virtualization environment
- Migrate Dovecot mail server

Client Name

IBSS, CWA

Development Activities

N/A

Project Status

Delivered

24



Project Name

Supply Chain Electronic
Document Management (eDoc)

Client Name

Marks & Spencer

Project Status

Delivered

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Development Activities

- Document Management System for various stakeholders in supply chain
- Approval System back & forth
- Automatic PO detection for vendors from files
- Customizable approval hierarchy chain

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Project Name

USA Based Intelligent
Loan Management System

Client Name

Kramasoft

Project Status

Delivered

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning at AWS
- Deployment environment preparation
- EKS Cluster Deployment
- Build/Deployment of all the applications
- Integration with Textract for OCR
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Integrated Development Platform (IDP) Deployment
- CI/CD Pipeline establishment

Development Activities

- AI-based Loan Management System
- Dashboard for borrower, MLO, MLP etc.
- Credco integration
- Chat (getstream.io) integration
- Document Management
- Keycloak-based authentication
- CMS generation
- MISMO file generation etc.

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Kramasoft

Project Name

Expenxe Management
System (EMS)

Client Name

Payconz

Project Status

Delivered

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Development Activities

- Expense Management Solution
- Android & iOS platform

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Payconz

Project Name

Payroll Management System
(Bangladesh Tax Rules Based)

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Ensure Data Backup
- Security Enforcement on traffics
- Visualization, Service Alert and Log Analyzing Platform
- Ensure L2 and L3 Support
- Ensure availability of services
- Ensure Backups of Configurations, Binaries, Data etc.
- Performance Tuning and Optimization
- Troubleshooting on raised cases
- Reporting

Client Name

Payconz, Marks & Spencer

Development Activities

- Personal Tax Calculator
- Employee Tax Calculation
- Payroll Management
- Handle bonus, incentive
- Employee Loan
- AIT Management
- Employee Final Settlement
- Employee Investment Management

Project Status

Delivered

28

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Payconz

Project Name

Tirzok BICC Solution
(TBS) Deployment

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of TBS
- ISVA Compliance and Mitigation

Client Name

ChannelVAS / Optasia
Robi

Development Activities

- Emergency Balance Service
- BICC-SIP (OBD & IBD), BICC-IVR, BICC-Beep
- 4000+ concurrent call, 80+ millions call daily

Project Status

Running on Support

29

robi
OPTASIA

Project Name

Tirzok BICC Solution
(TBS) Deployment

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of TBS
- ISVA Compliance and Mitigation

Client Name

Live Technology Ltd.,
Robi

Development Activities

- BICC-SIP (transparent IVR)
- 3000+ concurrent call, 5+ millions call daily

Project Status

Running on Support

30

robi
LIVE TECHNOLOGIES

Project Name

Tirzok BICC Solution
(TBS) Deployment

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of TBS
- ISVA Compliance and Mitigation

Client Name

Live Technology Ltd.,
Banglalink

Development Activities

- Integrated without SIGTRAN (m3ua) stack
- BICC-SIP (transparent IVR)
- 3000+ concurrent call, 2+ millions call daily

Project Status

Running on Support

31

banglalink
LIVE TECHNOLOGIES

Project Name

Tirzok BICC Solution
(TBS) Deployment

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of TBS
- ISVA Compliance and Mitigation

Client Name

Miaki,
Robi

Development Activities

- BICC-OBd
- In-built DND
- Campaign Schedule
- Dashboard
- 1500+ concurrent call, 1+ millions call daily

Project Status

Delivered

32

**Project Name**

Tirzok BICC Solution
(TBS) Deployment

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of TBS
- ISVA Compliance and Mitigation

Client Name

Route Mobile
Robi Axiata Limited

Development Activities

- Robi UCaaS (Unified Communications as a Service for Enterprise Customer)
- BICC-SIP (IBD & OBD)
- 500+ concurrent call

Project Status

Running on Support

33

**Project Name**

CMS Development

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of Selim Azam CMS

Client Name

Selim Azam International

Development Activities

- Django based CMS development
- SEO, RBAC supported

Project Status

Delivered

34

**Project Name**

Infrastructure Resource
Allocation for IEIMS Project
from Tirzok Cloud

DevOps Activities

- Cloud Compute and Network Infrastructure been provided by Tirzok Cloud
- Consultancy on Troubleshooting

Client Name

Bangladesh Bureau of
Educational Information and
Statistics (BANBEIS)

Development Activities

N/A

Project Status

Running

35

**Project Name**

Database Migration for
Retailer Distributor Management System (RDMS)

DevOps Activities

- Data migration from MSSQL to PostgreSQL
- Data Quality Processing
- Data Validation
- Data Readiness for Application

- 90+ Millions of Users Data been processed during the migration
- Script based data processing and migration been arranged

Client Name

Business Accelerate Bangladesh
Limited (BABL), Robi Axiata Limited

Project Status

Delivered

36



Project Name

Incentive Management
System Development

DevOps Activities

N/A

Client Name

Business Accelerate
Bangladesh Limited (BABL)

Development Activities

- Primary & secondary commission management system
- Efficient realtime calculation for primary commission within 3 seconds
- Periodic secondary commission calculation with constraint resource
- Microservice & message-queue based design
- k8s enabled development

Project Status

Delivered

37

**Project Name**

High-performant Log
Management System

Development Activities

- Lightweight Log Parser designed for structured or semi-structured logs.
- Supports both horizontal and vertical scaling.
- Customizable ETL Solution
- Capable of parsing approximately 700GB of raw logs daily on a single C2R4 machine.

Client Name

Cloudware Systems

Project Status

Delivered

38

**Project Name**

USA Stock Screener
(for Ethical Investment)

DevOps Activities

- Deployment Design
- Infrastructure Provisioning
- Environment Preparation
- Deployment of Sinbad Finance applications

Client Name

Sinbad Finance

Development Activities

- Portal for ethical investors
- CMS development
- ETL to scrap data from NYSE, Nasdaq etc.

Project Status

Delivered

39

**Project Name**

Managed Service for IPVision
and ringID infrastructure

DevOps Activities

- Manage Infrastructure for IPVision and ringID for Bangladesh and Canada consist of 700+ servers
- Manage IPVL Cloud
- Manage Integrated Development Platform (IDP) of IPVL
- Manage Bigdata stack and Object Storage of ringID
- Terrabyte scale of migration through Apache Spark from Apache Cassandra to ScyllaDB
- Continuous management of RDBMS of ringID

Client Name

IPVision,
ringID

Development Activities

N/A

Project Status

Delivered

40



Project Name

NGINX Plus with App
Protect (WAF) Deployment

Client Name

Quantum Method

Project Status

Delivered

DevOps Activities

- NGINX Plus with Web Application Firewall (WAF) Deployment
- API specwise configuration in NGINX Plus and WAF Activation
- NGINX Plus monitoring Stack deployment

Development Activities

N/A

41

**Project Name**

NGINX Plus Hands-on
Training for Bangladesh-Nepal (Onsite)

Client Name

F5 NGINX Plus Training

Project Status

Running

Development Activities

- Training for F5 Partners and Customers
- Training on API Gateway, Web Server, Reverse Proxy/Forward Proxy, Load Balancing, Web Application Firewall
- Hands-on Training on Lab Preparation and Case Studies Exploration

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**Project Name**

Migration to VIL Infra to Tizok Cloud
and Infrastructure Resource Support
from Tizok Cloud

Client Name

Sinbad Finance

Project Status

Delivered

DevOps Activities

- Deployment Design with Service Level High Availability
- Infrastructure sizing analysis and resource provisioning
- Deployment environment preparation
- Build/Deployment of all the applications
- Integration test with IoT devices through MQTT server
- Visualization, Service Alert and Log Analyzing Platform
- Cloud Compute and Network Infrastructure been provided from Tizok Cloud
- Consultancy on Troubleshooting

Development Activities

N/A

43

**Project Name**

College Admission System
(xiclassadmission.gov.bd) consultancy

Client Name

BUET

Project Status

Delivered

DevOps Activities

- Performance Tuning
- Consultancy on Load Balancing, Database Management and Troubleshooting

Development Activities

N/A

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Project Name

Virtualization Platform
Deployment

DevOps Activities

- Physical Hardware Preparation
- Network Integration and Configuration
- Virtualization Platform Deployment

Client Name

Dhaka University
(Theoretical Physics)

Development Activities

N/A

Project Status

Running

45

**Project Name**

Technical Audit of
Daktar Bhai for Investor, BAT

Development Activities

- Audit & Report on:
- Technical Analysis
 - Development Environment
 - Architecture, Scalability, Flexibility
 - System Deployment
 - Security
 - Performance
 - Standards Maintained
 - Cost Analysis
 - Competitive Analysis

Client Name

Daktar Bhai, Business Accelerate
Bangladesh Limited (BABL)

Project Status

Delivered

46



Daktar**bhai**

Project Name

Cloud based
infrastructure consultancy

DevOps Activities

- Consultancy on on-premise Private Cloud Infrastructure to Dept. of CSE, BUET for IEIMS Project of BANBEIS

Client Name

BANBEIS, BUET

Project Status

Delivered

47

**Project Name**

Bonus App
with Gamification

DevOps Activities

N/A

Client Name

Herr Westermann

Project Status

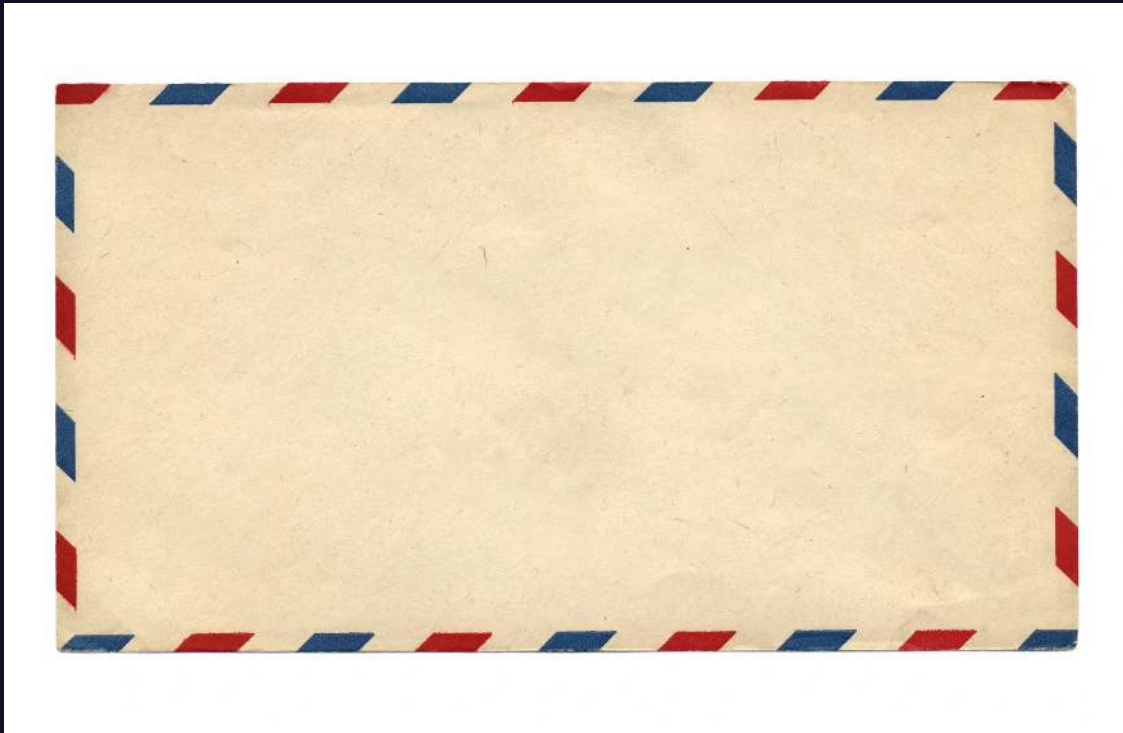
Delivered

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Development Activities

- Backend for the app game
- API for User Management

H.WM
HERR WESTERMANN



Contact Us

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Noor Hikmah Ltd.

Noor Hikmah Ltd. is a pioneering IT company, specializing in cutting-edge software development, AI solutions, and cybersecurity. With its innovative brand, the company empowers businesses to thrive in an AI-driven world, offering tailored applications and intelligent systems. Partnered with Tirzok Private Ltd., Noor Hikmah delivers robust cloud and enterprise solutions, ensuring clients achieve sustainable digital transformation.

