

## Contact

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## Top Skills

Service Provider Networks  
Team Leadership  
Network Architecture

## Certifications

SEO Expert  
Red Hat Certified System  
Administrator (RHCSA)  
MikroTik Certified Network Associate  
MTCNA

# Md. Mahabubur Rahman

Deputy Manager – Service Provider Backbone Planning &  
Implementation | JNCIP-SP · RHCSA | MPLS · BGP · VXLAN |  
DDoS Mitigation  
Dhaka, Bangladesh

## Summary

I've spent nearly 9 years keeping the internet running — and increasingly, keeping it secure — for ISPs and IIG operators across Bangladesh. As Deputy Manager at Stardust Telecom (Startrek Telecommunications), I lead the planning, design, and operations of our national IIG/ISP backbone — the core Layer 2/3 infrastructure that connects downstream ISP clients to the global internet. Every upstream peering relationship, every BGP routing policy, and every security control protecting that infrastructure runs through my team. My work sits at the intersection of network infrastructure and network security. On the infrastructure side, I build and operate large-scale service provider environments using Juniper (MX, PTX, ACX series), Cisco, Huawei, and MikroTik — running MPLS, BGP, IS-IS, OSPF, and VXLAN at production scale on live national backbone traffic. On the security side, I architect enterprise DDoS protection using WanGuard and FastNetMon, operate IDS/IPS platforms (Suricata, Zeek) for real-time anomaly and zero-day threat detection, enforce RPKI-based BGP security across all upstream peering relationships, and build Shodan API-based automation for continuous public-facing asset exposure monitoring. I don't treat infrastructure and security as separate disciplines — in an ISP environment, they never are. A misconfigured BGP policy is a security event. A volumetric DDoS is an infrastructure problem. The engineers who understand both sides are the ones who can actually protect a network. A few things I'm particularly proud of: ▶ Sustained 99.9% network uptime across national backbone infrastructure ▶ Improved customer satisfaction scores by 40% through streamlined IP Transit delivery ▶ Configured and maintained 150+ core multi-vendor devices (Cisco, Juniper, Huawei) ▶ Deployed VXLAN-based network overlay ensuring traffic isolation and uptime guarantees at scale ▶ Mitigated complex DDoS, brute-force, spoofing, and cyberattack incidents through self-developed firewall automation and real-time response frameworks

Certifications: JNCIP-SP ·

JNCIS-SP · JNCIA-Junos · JNCIA-Cloud · MTCNA · RHCSA  
Open to connecting with network engineers, ISP professionals, and security specialists — and selectively open to senior opportunities in backbone network architecture, network security engineering, or infrastructure management where there's serious infrastructure to protect and a team to build. mahabub.officialmail@gmail.com  
mrsagor.com

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## Experience

### STARDUST Telecom Ltd.

4 years 9 months

Deputy Manager, Planning and Implementation, Core Network  
October 2025 - Present (1 year)

Banani

Leading strategic planning, architecture, and operations of a national IIG/ISP backbone serving major downstream internet service providers across Bangladesh.

- Own end-to-end backbone upgrade planning and delivery, coordinating with all teams, international carriers, and upstream vendors
- Define and enforce BGP security architecture across all peering relationships — Prefix-lists, max-prefix limits, and MD5 authentication
- Architect enterprise DDoS protection strategy using WanGuard and FastNetMon with custom mitigation automation, safeguarding multi-gigabit traffic for downstream ISP clients
- Govern IDS/IPS platforms (Suricata, Zeek) for real-time anomaly detection, zero-day threat identification, and traffic forensic analysis
- Drive traffic analysis via NetFlow, sFlow, and IPFIX to resolve major incidents and optimize backbone load distribution
- Build automated asset-exposure monitoring via Shodan API integration, enabling proactive vulnerability identification across public-facing infrastructure
- Establish secure routing standards and mentor junior and mid-level network engineers across the team

Juniper MX/PTX · BGP · MPLS · VXLAN · RPKI · WanGuard · FastNetMon · Suricata · Zeek · NetFlow · IPFIX

Senior Assistant Manager, Planning and Implementation, Core Network  
January 2025 - September 2025 (9 months)

Dhaka, Bangladesh

Promoted to Senior Assistant Manager to take ownership of incident response operations, international circuit delivery, and backbone security hardening.

- Directed real-time mitigation of DDoS, brute-force, spoofing, and cyberattack incidents using self-developed firewall automation scripts and structured response procedures
- Oversaw Layer 2/3 IIG and ISP backbone integration projects — managing high-capacity planning and traffic engineering to meet growing network demand
- Planned and implemented IPLC and ITC international circuits, coordinating all technical parameters with international carriers and upstream providers
- Supervised core and upstream link health monitoring, SLA-driven performance maintenance, and fault isolation across national backbone infrastructure

Juniper MX · BGP · MPLS · IS-IS · IPLC · ITC · Firewall Automation · Traffic Engineering

Assistant Manager, Planning and Implementation, Core Network  
March 2023 - December 2024 (1 year 10 months)

Dhaka, Bangladesh

Stepped into first management role with full operational ownership of a national IIG/ISP backbone — responsible for infrastructure, co-location management, vendor relationships, and service delivery.

- Achieved 99.9% network uptime by redesigning redundancy architecture across 150+ core multi-vendor devices (Cisco, Juniper, Huawei)
- Raised customer satisfaction scores by 40% through streamlined IP Transit delivery workflows and improved service implementation processes
- Deployed VXLAN-based network overlay across all company infrastructure, ensuring traffic isolation and enhanced uptime guarantees at scale
- Managed 24/7 backbone operations with full responsibility for monitoring, co-location oversight, and proactive issue escalation
- Secured new international upstream connections by managing provider negotiations and technical onboarding with global vendors

Juniper · Cisco · Huawei · VXLAN · MPLS · BGP · IP Transit · Co-location Management

Senior Network Engineer, Planning and Implementation, Core Network

January 2022 - February 2023 (1 year 2 months)

Dhaka, Bangladesh

Responsible for infrastructure design, upstream traffic management, and operational documentation for a leading IIG/ISP backbone environment.

- Designed and provisioned core infrastructure upgrades — upstream traffic shaping, load balancing, route optimization, and firewall hardening
- Conducted capacity planning and traffic engineering to improve IIG/ISP backbone efficiency and maintain consistent upstream performance
- Produced comprehensive network documentation and Visio diagrams, standardizing operational procedures across planning and implementation teams
- Resolved escalated network issues for NOC and technical support teams, ensuring timely root-cause analysis and minimal service disruption
- Coordinated with internal departments to maintain project timelines and quality standards

Juniper · Cisco · MPLS · BGP · OSPF · IS-IS · Load Balancing · Traffic Shaping · Firewall Configuration

Digi Jadoo Broadband Limited

Senior Network Engineer

August 2021 - December 2021 (5 months)

Bangladesh

Led NOC operations and a team of network engineers at a broadband internet service provider, responsible for routing, switching infrastructure, and operational standards.

- Set escalation procedures, incident response workflows, and daily operational standards for the NOC team
- Trained and mentored junior engineers, improving team response time and overall operational efficiency
- Configured and managed Juniper (MX-480, MX-204) and MikroTik (CCR, hAP, hEx) routers with OSPF, BGP, and policy-based routing
- Administered L2/L3 switching infrastructure — Cisco Nexus, Huawei S6720/S6730, BDCOM S2928, GCOM S5330
- Drove new network implementations and troubleshooting to ensure smooth deployment and rapid resolution of issues

Juniper MX · MikroTik · Cisco Nexus · Huawei · BGP · OSPF · L2/L3 Switching

Earth Telecommunication (Pvt.) Limited  
Network Engineer  
May 2019 - July 2021 (2 years 3 months)  
Bangladesh

Two-year engineering role at a leading IIG/ISP company — hands-on ownership of routing infrastructure, multi-vendor switching, network monitoring, and performance reporting.

- Deployed and maintained Juniper routers (MX-480, MX-204, ACX-1000, ACX-4000) with BGP, OSPF, static, and policy-based routing
- Configured MikroTik routers (CCR, hAP, hEx series) with queue management, tunneling, full ISP and corporate setup
- Managed multi-vendor L2/L3 switching — Cisco Catalyst/Nexus, Huawei S6720, BDCOM S2928, GCOM S5330, Quanta LB6M, Juniper
- Monitored network performance using OpManager, Nagios, Cacti, SolarWinds, and MRTG for proactive issue identification
- Generated detailed management reports on network incidents, performance trends, and infrastructure improvements
- Assisted in capacity planning and network optimization to ensure future scalability

Juniper MX/ACX · MikroTik · Cisco Catalyst · Huawei · BGP · OSPF · SolarWinds · Cacti · Nagios · MRTG

DNS Engineering and Communication LTD  
System Engineer  
January 2018 - April 2019 (1 year 4 months)  
Dhaka

Early-career role at a company specializing in engineering and communications solutions — responsible for multi-site project coordination and international technical liaison.

- Coordinated engineering installations across multiple sites, ensuring on-time delivery and cross-team alignment
- Operated remote monitoring and control systems using INNEXIV products under Ericsson project management frameworks
- Acted as primary technical liaison with foreign engineers and international vendors for project execution
- Supported team leaders in resolving project-related technical challenges and maintaining delivery standards

## Education

Jahangirnagar University । জাহাঙ্গীরনগর বিশ্ববিদ্যালয়

Master's degree, Information Technology · (September 2022 - April 2025)

Daffodil International University

Bachelor's Degree, Electrical and Electronics Engineering · (2012 - 2016)