




# ZEESHAN NASIR BAJWA


Network Engineer | IT Professional

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## PROJECTS

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GBS	<b>Global Banking School, United Kingdom</b> <span style="float: right;">Feb 2023</span> Configured, implemented and Managed network infrastructure for 13 GBS campuses, including Ruckus R350/R650 access points with an Azure-hosted controller, Unifi and Cisco enterprise switches with stacking and Azure-hosted Unifi controller, and Dahua cameras with NVRs on each campus. Designed VLAN segmentation for different departments, deployed Microsoft Intune for centralized AD management, and configured Microsoft 365 for end-users. Established a site-to-site VPN between on-campus WatchGuard firewalls and Azure for secure connectivity to cloud-hosted servers and controllers. All configurations and optimizations were managed by remote team including me, with deployment executed by Field Engineers.
LOLC	<b>Microfinance Bank Aggregation Deployment</b> <span style="float: right;">Feb 2023</span> Implemented and configured the LOLC Bank aggregation setup at the PTCL commercial datacenter using Cisco 4331 ISR routers. This project involved deploying two Cisco 4331 routers in an active/backup configuration to ensure redundancy and high availability, with routing managed through OSPF and BGP protocols. Fortinet 401E firewalls were integrated for network security, although their configuration and management were handled by the bank's IT department. My responsibilities included setting up the routers and connectivity, focusing on seamless integration and reliable performance with team.
Uniworth	<b>Multi-Branch Network Deployment at MS Uniworth Shirt and Tie</b> <span style="float: right;">Feb 2023</span> This project involved the deployment of Cisco 892FSP routers for Uniworth Shirt and Tie branches in Rawalpindi and Islamabad, using a hub-and-spoke topology with separate circuits for data and internet. VLANs were configured for internal traffic, along with NAT, and BGP was set up for WAN routing with WATEEN's fiber link. Security measures included password encryption, SSH key generation, login attempt blocking, and ACLs to ensure a secure and high-performance network. The solution provided reliable, secure data and internet connectivity across multiple branches.
NBP	<b>Secure Network Management for 1600 Branches for National Bank of Pakistan</b> <span style="float: right;">Oct 2023</span> Led the implementation of secure LAN management for 1600 branches of the National Bank of Pakistan using Cloud Engine switches. Configured port security and MAC binding to control access for devices such as biometric machines and ATMs. Implemented SSH-based secure remote access with AAA protocols for authentication, enforcing strong password policies. Set up SNMP v3 for secure network monitoring and centralized logging via syslog. Utilized VLANs for traffic segmentation and synchronized the network using NTP. Additionally, enabled Rapid Spanning Tree Protocol (RSTP) to prevent network loops, ensuring a stable and secure infrastructure across all branches.
PPSC	<b>Scalable Secure Network for Multi-Branch Organization at Punjab Public Service</b> <span style="float: right;">June 2023</span> Designed and implemented a secure, scalable network infrastructure for a multi-branch organization using OSPF and BGP routing protocols. Leveraged DMVPN with GRE tunnels and IPsec encryption for secure communication between the central hub and remote spokes. Configured ISAKMP policies to ensure encryption and authentication, and set up loopback interfaces for router IDs. Managed WAN and LAN connectivity with Gigabit Ethernet interfaces and VLANs, ensuring efficient and secure data flow across the network. This solution enhanced the organization's network performance, scalability, and security.
HIPL	<b>Network Infrastructure Deployment at Hired International Pvt Ltd Networking Project</b> <span style="float: right;">June 2022</span> Deployed Cisco 2960, 3550, and 3560 switches, configured network settings, and installed a CCTV system with 32 IP cameras and a Hikvision NVR. Implemented a MikroTik CCR1009 Core router with auto failover, load balancing, and firewall. Added Omada wireless controller 300 and TP-Link Archer 3600 access points for seamless wireless connectivity. The project aimed to establish a reliable, secure, and high-performance network infrastructure. Skills utilized include video conferencing, network administration, CCTV installation, and IP CCTV.

## EDUCATION

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BSIT	<b>Bachelor of Science in Information Technology</b> <span style="float: right;">University</span> Virtual University of Pakistan
HSSC	<b>FA (General Science, IT Applications)</b> <span style="float: right;">College</span> Allama Iqbal Open University
Diploma	<b>Networking and Cloud Computing</b> <span style="float: right;">Professional Training</span> NAVTTTC, Ministry of Information Technology, Pakistan

## EXPERIENCE

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- 11/2024 – Cont. **Network Engineer** **Network Squad Ltd (London, UK)**
- Design, implement, and maintain network infrastructure for optimal performance.
  - Troubleshoot and resolve connectivity, bandwidth, and security issues.
  - Monitor network activity, analyze data, and identify areas for improvement.
  - Configure and manage Cisco MultiLayer switches and routers (EIGRP, OSPF, Static Routes).
  - Deploy configurations for STP, HSRP, and VLANs to ensure effective LAN segmentation.
  - Manage and administer Microsoft 365 services, including license and user management.
  - Monitor usage, troubleshoot issues, and provide user support for Microsoft 365 applications.
  - Install, configure, and maintain hardware and software systems (servers, workstations, routers, switches, access points, NVR, CCTV cameras).
  - Conduct regular updates, patches, and system backups to maintain data integrity.
  - Collaborate with IT team to provide technical support for user-related hardware and software issues.
  - Work with virtualization technologies (VMware, Hyper-V).
- 1/2023 – 10/2024 **Resident Engineer** **Wateen Telecom (Islamabad, PK)**
- Worked with several governmental and private sector organizations such as Punjab Public Service Commission, National Bank of Pakistan, Lahore High Court, LOLC Microfinance Bank, KFC, Uniworth, and hundreds of other clients, managing their networks to ensure system availability and reliability.
  - Utilized SolarWinds Orion, MRTG and PRTG for network monitoring to manage and maintain network nodes.
  - Managed and maintained Huawei and Cisco routers and switches to guarantee their optimal performance within the network infrastructure.
  - Worked on Huawei (Ar 150, AX6000, AR1000) and Cisco routers (892FSW, 1218, 891F, 2811, 2911, 4883, as well as 3550, 2960, and 3560) Switches for seamless data transmission.
  - Developed and maintained comprehensive documentation related to network infrastructure. Evaluated, selected, and adapted control techniques and procedures to resolve network issues effectively.
  - Collaborate with the Transport and Network Operations Center to design and implement end-to-end networking solutions.
- 5/2022 – 1/2023 **Information Technology Officer** **Hired International Pvt Ltd (Rawalpindi, PK)**
- Mikrotik Core Cloud Router 1009 Configuration, Configured with dual WANs, Load Balancing, Auto fail-over, and maintained Mikrotik's advanced firewall for stringent corporate network security policies.
  - Orchestrated planning, organization, control, and evaluation of IT operations covering Networks, Hardware, Software, and OS. Oversaw technology installations and upkeep.
  - Designed, developed, implemented, and coordinated systems, policies, and procedures. Conducted rigorous testing and troubleshooting for seamless system functionality in alignment with user needs and organizational policies.
  - CCTV Security, Managed and maintained IP cameras integrated with Network Video Recorder (NVR) for robust surveillance and security purposes.
  - Cloud-Based Email Server Administration, Operated a cPanel-based Cloud Email Server with domain integration, including Outlook configuration on user PCs.
  - WLC TP-Link OC300 Setup, Managed WLC TP-Link OC300 with multiple Access Points supporting VLANs and MAC bindings across distinct SSID Channels (2.4GHz, 5GHz, and 6GHz).
  - Comprehensive Support Services, Provided extensive physical and remote support across the entire company's IT infrastructure.
- 3/2022 - 5/2022 **Network Support Engineer** **ArfaTech Communications (Rawalpindi, PK)**
- Network System Support: Resolving end-user complaints concerning Windows, Windows servers, printers, software, and related issues.
  - Level Two IT Support: Providing advanced internal customer support for various IT-related concerns.
  - Remote Issue Management: Executing remote troubleshooting to address technical issues efficiently.
  - Proactive Monitoring and Feedback: Continuously monitoring and delivering timely, accurate feedback to customers and management regarding issues.
  - Escalation Protocol Adherence: Following predefined guidelines and policies for the proper escalation of issues to higher management.
  - Complaint-Based Issue Resolution: Resolving user issues based on a complaint-driven system.
  - Basic Network Configuration: Performing basic configuration tasks for switches and routers.
  - Windows Server 2016 Setup: Installing and configuring Windows Server 2016 and its roles as per company specifications.
  - Hardware Device Installation: Handling the installation of various hardware devices within the network infrastructure.

3/2020 - 2/2022 **Network Support Engineer**

Shezan International Pvt Ltd (Islamabad, PK)

- Basic configuration of switches and Routers.
- Installation and configuration of windows server 2016 and it's roles according to company requirements.
- Installation of hardware devices.
- Resolving user issue and complaints related to hardware and software.
- Followup customer, pro-active monitoring, timely and accurate feedback of issues to customer and management.
- Proper escalation of issues to management according to guidelines and policies.
- Resolving user issues on a complaint-based system.
- Testing and troubleshooting network and systems so, they can operate perfectly.
- Identify problematic areas and implement strategic solutions in time.

2/2018 - 01/2020 **IT Support Specialist**

Subway (Islamabad, PK)

- Diagnose and troubleshoot technical issues on Windows, Linux, and Mac operating systems.
- Install, configure, maintain, and upgrade hardware and software systems.
- Monitor, analyze and troubleshoot LAN connectivity to the internet.
- Create and maintain user accounts and profiles.
- Provide technical support to users via phone, email, and in person.
- Train users in the use of computer systems, software, and hardware.
- Provide on-site and remote technical support.
- Monitor server and network performance.
- Recommend and implement system upgrades.

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## CERTIFICATIONS

**Cisco** - CCNA (RS), CCNP (RS)

**Huawei** - HCIP (Advance Datacom RS), HCIA Cloud, HCIA Security

**Microsoft** - Azure Solution Architect Expert AZ305, Azure Administrator Associate AZ104, Azure Fundamentals AZ900, Azure Security and Compliance SC900, DevOps Engineer Expert AZ400, 365 Fundamentals MS900

**Fortinet** - NSE1, 2, 3, Fundamental in CyberSecurity, Associate in Cyber Security

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## MEMBERSHIPS

**Microsoft Certified Trainer** - (2021 - Cont.)

**Microsoft Learn Student Ambassador (Beta)** - (2023 - Cont.)

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## WORKED ON

Cisco - 891, 892, 1218, 2811, 2911, 3650, 3560, 3750, 3850, 4331

Huawei - AR151, AR611, CloudEngine S5735

Fortinet - 401E, 601F

Mikrotik - CCR1009, RB750Gr3, CCR2116

Microsoft - Azure, Intune, MS365, SharePoint, Teams

VMware - Esxi 6.0, 7.0

Unifi - USW 48P PoE

Ruckus - R350, R650

Dahua - HDW4631C, HDW3541EM and NVRs,

Hikvision - Cameras and NVRs

Omada - EAP650, AX3000, OC300

Dell - PowerEdge R640, R740, R750

IBM - Power System S922

HP - ProLiant DL380 Gen6, DL360 Gen10

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## LANGUAGE

**English** - Conversational

**Urdu** - Native

**Punjabi** - Fluent