

Ehab Ali Gomaa Shalaby

Junior Network Engineer

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PROFESSIONAL SUMMARY

Junior Network Specialist with a solid foundation in IT and networking, gained through studying industry-recognized certifications including CompTIA A+, Network+, Security+, and Cisco CCNA. Skilled in network design, configuration, and troubleshooting using simulation tools such as Cisco Packet Tracer and GNS3. Strong understanding of network protocols, routing and switching, and basic cybersecurity principles. Highly motivated, detail-oriented, and eager to grow within a dynamic IT environment. Currently developing deeper expertise in cybersecurity to complement networking skills and pursue a career in network security

EDUCATION

B.Sc. in Business Information Systems (BIS)

Cumulative GPA: 3.0/4.0

Oct 2021 - May 2025

Key Skills

- Networking Fundamentals: IP addressing, subnetting, routing, switching, VLANs, NAT, DHCP, DNS
 - Certifications Studied: CompTIA A+, Network+, Security+, Cisco CCNA
 - Network Tools: Cisco Packet Tracer, GNS3
 - Troubleshooting & Configuration: Network setup, fault isolation, performance tuning
 - Cybersecurity Basics: Network security principles, access control, firewalls, threat awareness
 - Technical Skills: Windows OS, basic Linux commands, hardware setup and diagnostics
 - Soft Skills: Problem-solving, attention to detail, teamwork, self-learning, time management
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Projects

1. Advanced Network Simulation using GNS3 and VirtualBox

Designed and implemented a complete network topology using **GNS3**, featuring a **Cisco C7200 router** connected to **three switches**. Integrated **VirtualBox** to simulate a **Windows Server 2019** and **four client machines** (2 Windows, 2 Linux).

- Configured the server as a **DHCP server** and **web server**.
- Managed dynamic IP distribution and ensured cross-platform connectivity.
- Demonstrated real-world LAN setup and client-server interaction across mixed OS environments.

2. Integrated Network Infrastructure using Cisco Packet Tracer

Built a comprehensive network simulation in Cisco Packet Tracer that included:

- 1 Router, 3 Switches, and multiple servers (Web, DHCP, DNS)
- Configured DHCP to provide dynamic IP addressing across the network
- Set up a DNS server to resolve domain names for internal services
- Deployed a Web server and tested HTTP connectivity
- Integrated IoT devices (smart lights, sensors, etc.) to simulate modern smart network environments
- Demonstrated full end-to-end connectivity, name resolution, and service availability in a simulated enterprise network

3. VLAN-based Network Segmentation using Cisco Packet Tracer

Designed and configured a network topology in Cisco Packet Tracer with 3 switches and 6 PCs, organized into multiple VLANs to simulate departmental segmentation.

- Created separate VLANs for different groups of devices (VLAN 100, 200)
- Assigned switch ports as Access Ports for end devices and Trunk Ports for inter-switch links
- Verified inter-VLAN isolation and tested intra-VLAN communication
- Demonstrated improved security and traffic management through network segmentation

4. Network Setup with Routers, Switches, and Web Server using Cisco Packet Tracer

Designed and configured three separate networks using Cisco Packet Tracer, each with a router, switch, and three PCs. One of the networks was configured with a Web Server for testing HTTP connectivity.

- Created and assigned static IPs for all devices within each network
- Configured router interfaces for inter-network communication
- Set up a Web Server in one network and tested web service availability through client PCs
- Verified proper network connectivity and web access using browser requests

Languages

English: Intermediate (A2-B1)

German: Beginner (A1-A2)