Zola Huna - Network Security Technician Portfolio

Contact Information

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Professional Summary

Certified Network Security Technician with a solid foundation in networking concepts, security best practices, and hardware installation. Highly proficient in troubleshooting and resolving network issues, with practical experience gained through hands-on projects and current work at DHL Express. Strong analytical skills and a commitment to providing secure and reliable network solutions.

Certifications

- **CompTIA A+**
- **CompTIA Network+**
- **CompTIA Security+**

Relevant Coursework

Boston City Campus College

- **CompTIA A+**: Hardware and Network Troubleshooting, Installing and Configuring Operating Systems, Software Troubleshooting, Security Best Practices.
- **CompTIA Network+**: Networking Concepts, Infrastructure, Network Operations, Network Security, Network Troubleshooting and Tools.
- **CompTIA Security+**: Threats, Attacks, and Vulnerabilities, Technologies and Tools, Architecture and Design, Identity and Access Management, Risk Management, Cryptography and PKI.

Work Experience

Export Customs Agent | DHL Express *November 1st, 2021 - Present*

- Coordinated with customs officials to ensure smooth export operations.
- Managed documentation and compliance for international shipments.
- Tracked and updated shipment status for clients and internal teams.

- Ensured timely and accurate processing of export documentation.

Projects

Project 1: Home Network and Satellite TV Setup Date: 9th March 2024 **Location**: Tsotetsi Street, Thokoza, Johannesburg

Objective: Enhance home network connectivity and satellite TV quality for neighbors.

Details:

- **Client**: **Sibusiso Ngubeni**
    - Connected an old Telkom Wi-Fi router to VUMA Tel networking polls, saving R400 ($22) per month.
    - Implemented security measures to protect the Wi-Fi network from unauthorized access.
- **Client**: **Alinah Olifant**
    - Rebooted and configured DSTV channels, ensuring clear, non-buffering TV connection.

Challenges:

- Integrating old equipment with new networking infrastructure.
- Ensuring robust security to prevent unauthorized access.

Outcome: Successfully enhanced internet and TV services, providing reliable and secure connectivity for both households.

Project 2: Office LAN Setup at DHL Express Date: 22nd March 2024 **Location**: Kempton Park

Objective: Establish a Local Area Network (LAN) to enhance operational efficiency.

Details:

- Connected RJ-45 cables to four operational computer monitors.
- Configured network settings for seamless communication with the central server.
- Installed AQCC system on all computer monitors for shipment tracking.

Challenges:

- Coordinating setup within an active work environment without disrupting ongoing operations.
- Ensuring compatibility and optimal performance of the AQCC system with existing infrastructure.

Outcome: Streamlined cargo tracking processes, improving business operations and customer transparency.

Project 3: Networking for Mo Soul Picnic Event Date: 23rd March 2023 **Location**: Moriting Park, Tsotetsi Street, Thokoza, Johannesburg

Objective: Set up networking and connectivity for event attendees and equipment.

Details:

- Connected 6 HP Laptops (Intel i7), electronic microphones, sound playback devices, amplifiers, LED indicator lights, projector screens, VU meters, and headphones.
- Connected all devices to LAN Fiber Network for unlimited Wi-Fi connectivity.
- Enabled attendees to request food and transportation services online via Mr.D, UberEats, BOLT Food, BOLT, and Uber.

Challenges:

- Managing the connectivity needs of multiple high-performance devices and ensuring stable network access throughout the event.
- Providing seamless service for both entertainment and attendee convenience.

Outcome: Ensured smooth event operations with reliable network connectivity, enhancing overall attendee experience.

Project 4: CompTIA A+ Hardware Installation Date: 2nd April 2024 **Location**: Alberton Boston City Campus College

Objective: Install a gaming motherboard and CPU as part of CompTIA A+ certification.

Details:

- **Components Installed**:
    - Motherboard: MSI B550
    - CPU: AMD Ryzen 7
    - Thermal Paste: Corsair XTM70
    - ESD Precautions: ESD strap, tweezers, clean cloth, and alcohol for component cleaning.
- **Additional Installations**:
    - Expansion Cards: Elgato Game Capture HD60 Pro, AMD Radeon RX 6750 XT.
    - Active Cooling: Dark Rock Pro 4, Corsair thermal paste XTM70, six Chromax Noctua NF-F12 PWM cooling fans.
    - Power Supply: Corsair RM850x (230 volts for Europe and Africa).
    - Memory: Corsair Vengeance LPX 16GB DDR4-3200 CL16 Module - 1.35V.
    - Storage Devices: SAMSUNG 980 PRO PCIe 4.0 NVMe M.2 SSD 2TB, Seagate 7200RPM 256MB Cache SATA 6Gb/s 3.5" Internal Hard Drive.

    - RAID Configuration: Configured RAID with four drives (SATA 1, SATA 2, SATA 4, SATA 6).
    - Virtual Machines: Configured using VirtualBox 5.2 for Windows Hosts.

Challenges:

- Ensuring all components were correctly installed and compatible.
- Maintaining a static-free environment to protect sensitive components.
- Configuring RAID and virtual machines accurately.

Outcome: Successfully installed and configured hardware, demonstrating technical expertise and problem-solving skills.

Project 5: Advanced Network Configuration (CompTIA Network+) Date: 20th May 2024
Location: Alberton Boston City Campus College

Objective: Configure advanced network settings and devices.

Details:

- **Cables and Connectors**: Worked with twisted pair cables, copper cables, and various connectors including RJ-11, RJ-45, GG45, and TERA.
- **Cable Modem Setup**: Successfully connected a cable modem in an office scenario within 2 minutes and 47 seconds.
    - Link to demonstration
- **Fiber Optic Cables**: Connected and configured fiber optic cables and local servers within 3 minutes and 14 seconds.
- **IPv6 Configuration**: Assigned static and dynamic IPv6 addresses, ensuring reliable communication protocols.
- **Network Services**: Configured DNS, VLAN, VPN, IPv4, Ports and Protocols, TCP vs. UDP, and SOHO Networks.

Challenges:

- Dealing with electromagnetic interference (EMI) and eavesdropping risks associated with twisted pair cables.
- Ensuring proper shielding to reduce EMI.
- Accurate configuration of IPv6 addresses and other network services.

Outcome: Demonstrated expertise in cable management and network device setup, improving overall network performance and security.

Technical Skills

- **Network Configuration**: Proficient in setting up and configuring LANs, Wi-Fi networks, and VPNs.

- **Security**: Strong understanding of network security principles, including implementing firewalls, encryption, and secure access protocols.
- **Hardware Installation**: Experienced in installing and configuring various hardware components, including motherboards, CPUs, expansion cards, and cooling systems.
- **Troubleshooting**: Skilled in diagnosing and resolving network and hardware issues.
- **Software Proficiency**: Familiar with network monitoring tools, virtualization software (VirtualBox), and various operating systems.
- **Documentation and Compliance**: Experience in managing documentation for customs and export compliance.

Additional Skills

Troubleshooting Tools: During my studies at Boston City Campus College, I used various troubleshooting tools to solve network issues:

- **Loopback Plug**: Tested network ports and resolved network interfaces by emulating network connections without directly linking to an external apparatus.
- **Smartjack**: Frequently used to test connectivity and performance at the demarcation point for a WAN service.
- **Cable Testers**: Checked for various miswire conditions such as wire mapping, reversals, split pairs, shorts, or open circuits. Quickly identified crossover and straight-through cables.
- **TDR (Time-Domain Reflectometer)**: Sent electrical pulses on a wire to discover information about the cable, testing and identifying variables such as estimated wire length, cable impedance, the location of splices and connectors, and shorts and open circuits.
- **OTDR (Optical Time-Domain Reflectometer)**: Used for fiber optic cables to perform similar functions as a TDR.
- **Toner Probe**: Traced the end of a wire from a known endpoint to the termination point in the wiring closet.
- **Multimeter**: Tested various electrical properties to measure parameters such as AC and DC voltage, current (amps), resistance (ohms), capacitance, and frequency.
- **Other Tools**: Voltage event recorder, environmental monitors, wire stripper, snips, and crimpers.

Outcome: Developed strong troubleshooting skills and an understanding of various testing tools, enhancing my ability to diagnose and resolve network issues effectively.

Conclusion

This portfolio showcases my comprehensive skill set, relevant coursework, hands-on projects, and professional experience, positioning me as a capable Network Security Technician ready to tackle complex network environments and ensure reliable, secure connectivity. Thank you for reviewing my Portfolio