**Engr. BILAL MUSTAFA**

**System Engineer | Cyber Security Specialist | Web&Network Pentester**

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An experienced and highly skilled Infosec Professional with a deep understanding of cybersecurity principles, practices, and technologies. With a proven track record in protecting sensitive data and ensuring the confidentiality, integrity, and availability of information assets.

**CORE COMPETENCIES**

Server Security ISMS Management Security Architecture Development

Penetration Testing Server Virtualization Vulnerability Management Firewall Administration Security Compliance Linux/ Windows Administration

Ethical Hacking Email Security Gateways Policy/ Procedure Development

**PROFESSIONAL EXPERIENCE 9 Years**

**State Bank of Pakistan, Karachi**

**Senior System Engineer | June 2024- Present**

Recently Joined State Bank of Pakistan as Senior System Engineer (Payment System Technologies)

**National Transmission& Despatch Company, Lahore**

**Assistant Manager (Server Security) | Feb 2022- May 2024**

* To coordinate and assist with Server Engineers in executing the routine tasks and to design, install and optimize the servers and related components in order to achieve and maintain high performance of business applications
* Safeguard information system assets by identifying and solving potential and actual security problems
* Regularly performing Pen-testing and vulnerability assessment to identify weaknesses in the system
* Implement and maintain information system security controls and countermeasures
* Assist in development and implementation of IT Security policies, procedures and other CS artifacts
* Research on security trends/ developments and make recommendations to the management
* Coordinate with IT teams, consultants and external organizations on cyber security related matters
* Participate in internal and external security audits to evaluate the effectiveness of security measures
* Ensure the compliance with ISO/IEC 27001 and NEPRA IT/OT Cyber Security Regulations
* Educate staff through awareness trainings and build a culture of enhanced security compliance

**Projects & Achievements**

* + Assisting Project Director in the implementation of **‘ERP and IT Modernization Program’** in NTDC. This mega project includes the development of Tier-3 Data center, implementation of SAP S/4 HANA, Office Automation and SD-WAN Deployment etc.
  + Supervising the project of **ISO 27001 Implementation** in NTDC
  + Supervised various third-party security evaluation and audit projects

**State Bank of Pakistan, Karachi**

**IT Operations Officer | April 2020- Feb 2022**

* Primary responsibility is to ensure smooth functioning of IT operations and manage data center facility
* Monitoring mission-critical components: network infrastructure, servers, applications and UPS etc.
* Resolving operational issues with the coordination of other technical teams: DBA team, Network Team etc.
* Managing key components of Data Centre Facility: Power Supply System, Cooling system, UPS system etc.
* Supervising various teams i.e., Vendors, Third Party, Power and Generator teams working at DR site
* Coordinating with the concerned vendors to resolve the issue related to the data center facility
* Responsible for day-to-day reporting to the management pertaining to the status of data Centre
* Managing inventory and keeping track records of all the equipment and accessories

**BaseCamp Data Solutions, Karachi/Hyderabad**

**System Engineer | Sep 2015- Sep 2018 & June 2019- March 2020**

* Managing IT infrastructure and providing Support Operations in 24/7 environment
* Monitoring server performance to ensure that it meets standards set by the organization
* Administrating firewall environments in line with IT security policy
* Configuring and managing networking devices: Switches, Routers and Access Points
* Managing end user accounts, access rights, and storage allocations through Active Directory
* Maximizing network performance by monitoring performance, troubleshooting network problems
* Responsible for managing virtual environment by using Hyper-V

**VectraCom (Pvt.) Ltd, Karachi**

**Service Management Officer | 2015-2015**

* Providing VAS support for IVR and SMS services to Nationwide Telcos, Banks and other enterprises
* Working on various Linux Daemon: CRON, VSFTPD, HTTPD, MYSQLD, SSH, SCP, PUTTY, VNC
* Linux File System, Partitioning and Formatting Hard disks, IPTABLES Firewall.
* Monitoring IT infrastructure by using Linux tools i.e., Nagios, Asterisk, Cacti
* Managing and controlling multiple cross-functional services simultaneously
* Manage workflow model with admirable time scheduling
* Working with Shell Scripts for scheduling and automating tasks

**Inbox Business Technologies, Karachi**

**Resident Engineer | 2014-2015**

* Resided as Mac Support Engineer at IBA City Campus, Karachi
* Responsible for providing 1st level Technical Support to students, faculty, and staff for Macintosh
* Responsible for administrating and managing the workshops and trainings in Mac lab.
* Responsible for troubleshooting and maintaining of LAN/Internet connectivity in Mac Lab.

**KEY QUALIFICATION**

Bachelor of Engineering (Computer System Engineering)

**Mehran University of Engineering & Technology, Jamshoro**

**INTERNATIONAL CERTIFICATIONS**

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| --- | --- |
| (ISC)2 Certified in Cyber Security | Microsoft Azure Administrator Associate |
| Cisco Certified Network Associate (Routing & Switching) | ISO/IEC 27001 Information Security Associate |
| Certified AppSec Practitioner (The SecOps Group) | ArcX Cyber Threat Intelligence Analyst |
| Microsoft Information Protection Administrator Associate | Fortinet Network Security Associate |
| Huawei Data Centre Facility Deployment Professional | Barracuda WAF-as-a-Service – Advance |
| Barracuda Web Application Firewall – Foundation | Barracuda Web Security Gateway – Foundation |
| Barracuda Web Application Firewall – Troubleshooting | Barracuda Email Security Gateway – Foundation |
| Barracuda CloudGen Firewall – Troubleshooting | Barracuda Load Balancer ADC – Foundation |
| Barracuda CloudGen Firewall – Foundation | CSI Linux Certified Investigator |
| ISO/IEC 27001 IT Service Management Associate | Certified Network Security Practitioner |
| Certified Network Security Practitioner (The SecOps Group) |  |

**TRAINING & DEVELOPMENT COURSES**

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| --- | --- |
| CISSP (Certified Info System Security Professional) Training *Cybrary* | Lead Implementer: ISO 27001 *Delta Dynamics* |
| Google Project Management Professional Certificate *Coursera* | COBIT Foundation *Cybrary* |
| IBM Cyber Security Analyst Professional Certificate *Coursera* | Microsoft Server Administration *Aptech* |
| Google Cyber Security Professional Certificate *Coursera* | Ethical Hacking Essentials *EC- Council* |
| Palo Alto Networks Cybersecurity Professional Certificate *Coursera* | Digital Forensic Essentials  *EC-Council* |
| Information Systems Auditing, Controls and Assurance *Coursera* | Network Defense Essentials *EC-Council* |
| System Administration and IT Infrastructure Services *Coursera* | Python for Cyber Security Professional *Cybrary* |
| ISC2 System Security Certified Practitioner Training *Coursera* | ITIL 4 Foundation *Cybrary* |
| Maltego for Cyber Crime Investigations |  |

**PROFESSIONAL MEMBERSHIP**

ISC2 (International Information System Security Certification Consortium) Member ID: 1162760

**CORE TECHNICAL SKILLS**

**Security Frameworks:** ISO/IEC 27001, NIST CSF,CIS Controls, PCI DSS

**Pentesting Methodologies:** OWASP TOP 10,OSSTM,ISSAF, PTES

**Security Tools:** Burp Suit, Metasploit, Nessus Pro, NMAP, Acunetix, OWASP ZAP, Wireshark, OpenVAS

**Operating Systems:** RHEL 7/8/9, SUSE, Ubuntu, CentOS, Kali Linux, ParrotOS, Windows Server**,** CSI Linux, MacOS

**Security Technologies:** SIEM, Firewalls, IDS/IPS, WAF, Security Email Gateway, DLP, IAM, VPN, Load Balancer ADC

**Security Protocols:** SSL/TLS, IPSec, LDAPS, SMTPS, FTPS/SFTP, Kerberos, SSH, DNSSec

**Cryptographic Algorithms:** RSA, Diffie–Hellman, DSA, AES, DES, SHA-256, MD5

**Soft Skills:** Problem Solving, Team Player, Detail Oriented, Excellent communication skills, Continuous Learner