**Jehanzeb Adnan Qureshi**

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**832-283-8233**

**OBJECTIVE:**

Seeking a challenging job in networking and security field involving my technical, analytical, and interpersonal skills

**EDUCATION:**

* Master of Science in Network Information Systems

Stevens Institute of Technology; Hoboken, NJ Dec 2009

**CERTIFICATIONS:**

* Cisco Certified Internet Expert (CCIE) – Service Provider Written
* Cisco Certified Internet Expert (CCIE) – Data Centre Written
* Cisco Certified Network Professional (CCNP)
* Cisco Certified Network Associate (CCNA)
* Juniper Network Certified Internet Professional (JNCIP)
* Juniper Network Certified Internet Specialist (JNCIS)
* Juniper Network Certified Internet Associate (JNCIA)
* Microsoft Azure Solutions Architect Expert (H431-4400)
* Microsoft Certified Systems Engineer 2003: Security (MCSE 2003)
* Microsoft Certified Systems Engineer 2000: Security (MCSE 2000)
* Microsoft Certified Systems Engineer NT 4.0 (MCSE)

**TECHNICAL SKILLS:**

* **Firewall** **-** Palo Alto 500 / 2050 / 3050, Panorama, Juniper SSG 520M, Cisco ASA 5520 / 5525 / 5510, Firepower, Fortinet, Checkpoint R77
* **Load Balancers** - A10 TH1030S, TH840, Cisco ACE 4710, F5 LTM – 4000/3900 Series, Brocade, Microsoft TMG, NetScaler
* **VPN –** IPSec Site-to-Site, Remote Access
* **Cloud Technologies** - Microsoft Azure
* **Cisco Routers -** Cisco 17xx, 18xx, 26xx, 28xx, 37xx, 38xx, 72xx, 75xx, GSR12K, CRS, ASR9K,
* **Nexus Switches –** Cisco ACI Hardware (APIC-M2, N9K-C9504, N9K-C9336, N9K-C93240, N9K-C9348), including other Nexus Series hardware (9508/9396PQ/PX/EX/FX, 2248TP), Cisco MDS9710, Nexus 9K/ 7K, Fabric Interconnect 5K, FEX 2K, Nexus 1000v
* **Switches -** Cisco 35xx, 55xx, 65xx, 9000, Ciena 3xxx/ 5xxx, Juniper QFX/ ACX/ EX series
* **Servers** – Cisco UCS B and C series, IBM, HP, and DELL blade servers
* **HBA/ NIC** – Brocade, QLogic, Cisco, Broadcom, Netronome SMARTNIC
* **Juniper Routers** - M320, T640, MX320, MX480, MX960, MX 2010, MX 2020, PTX 5K/10K
* **Operating Systems -** Windows, UNIX, Linux/Ubuntu, VMware, Cisco IOS/ XR, NX-OS, Junos
* **Redundant Network features -** HSRP, VRRP
* **Device Management -** Out-of- band, in-band, SNMP, TACACS
* **Tools -** Cisco Works, MRTG, Sniffer, Visio, HP-Open view, Wireshark, NetFlow, Solar winds
* **Test Center -** IXIA, Spirent
* **SDN/ SD-WAN -** Open stack, Juniper Contrail, Cisco ACI, Cisco Viptela

**PROJECTS:**

**1.Fortigate Firewall Deployment on MS Azure**

To deploy Fortigate firewall from scratch on Azure cloud in active-passive mode and all the supporting configurations required on Azure including User Defined Routing, Network Security Group, Resource Group, Virtual Network, VNET Peering, etc.

**2.Citrix NetScaler Gateway VPN Deployment**

Implementation of Citrix Remote Access VPN for 3000 users with Always On for seamless VPN connection and split-tunnelling functionality. All the users were migrated from Microsoft Direct Access to Citrix NetScaler.

**3.Zscaler Forward Proxy Solution**

Design and implementation of Zscaler Cloud Proxy for 4000 users for web security along with Advanced Malware and Threat Protection using ZIA and ZPA. Solution was designed to work with strict enforcement while users are working remotely.

**4.Viptela SD-WAN Deployment**

Deployed and worked with the team of network engineers to design and implement industry leading SD-WAN infrastructure to provide secure, carrier-independent WAN connectivity across the enterprise. Integrated with existing BGP environment to redistribute routes seamlessly from Viptela into traditional MPLS WAN.

**5. Migration to ACI deployment**

Design, deployed and implemented Cisco ACI for McKesson data centre, migrating existing legacy applications to the new Spine/Leaf architecture. Migrated Nexus 7k’s & 5k’s to an ACI fabric consisting of 95xxspines and 93xx leaf in data centres.

**EXPERIENCE**

**Network Projects @ NiSource Apr 2022 - Present**

**Sr. Network Engineer**

* Design and implement the solutions for Data Centre network infrastructure including but not limited to LAN, WAN, WLAN, SDWAN, Cloud, Firewalls, Wireless, VPN, DNS, etc
* Working closely with Engineering, Project Management and Customer Stakeholders to design, deploy and test solutions based on project requirements.
* Prepare technical solution and document the details on TSD along with POC.
* Developed and supported multi-tenant Cisco ACI Greenfield environment with APIC-L2, N9K-C9504, N9K-C93240 and N9K-C93180 as VPC paired switched platform.
* Supported application teams to migrate servers from Chicago to Ohio with minimal impact by performing L2 extension between Data Centers.
* Deploy Infoblox on Azure Cloud and new Data Centre for the DNS infrastructure.
* Migrate wireless networks along with new installations from local to centralized controller.
* Implementing solutions to build new sites and expanding existing network based on customer requirements.
* Upgrading new and existing WAN circuits as well as DMVPN and installing new circuits for redundancy and performing failover testing
* Design and implement Azure Cloud network – VNET, UDR, NSG and Peering along with establishing connectivity with Data Centres over Express Route and VPN.
* Deployed, configured, supporting and troubleshooting of Palo Alto firewalls using Centralized management Panorama as well standalone firewalls.
* Configure, upgrade, deploy F5 LTM. Host new internal and external services on F5. Deploy applications using single host control list.
* Deploying Branch In The Box solutions using C1109/IR1101 model for critical/major remote sites with Fiber and LTE WAN
* Lead engineer for the design and migration of legacy Cisco ISR WAN routers to Viptela SDWAN routers (vManage, vSmart, vBond, vEdges, cEdges) for multiple sites. Role included multitenant segmentation, security and configuration and upgrades.

**Network Operations @ Xylem Inc**

**Senior Network Specialist Mar 2021 – Apr 2022**

* Support all aspects of the network at more than 350 sites, including Cisco SDWAN routers, Cisco switches, and Cisco wireless, Palo Alto firewalls and Prisma.
* Plan, implement, troubleshoot, and issue resolution of existing and future network infrastructures on regular basis.
* Provide design, engineering, and architectural support to manage the network infrastructure including technical requirements, analysis, design and implementation of WAN, LAN, WLAN, SD-WAN, SDN and VoIP.
* Analysed existing operations and make recommendations for the improvement and growth of the infrastructure and IT global systems.
* Use of Ansible, Python and Slack to generate network templates for network devices.
* Manage the operational related projects related to routing and switching, firewalls, Cisco Wireless Controllers, Access points, and SDWAN.
* Managed central sites move to SDWAN, created SOP and configure the SolarWinds for network performance and configuration management to diagnose, and resolve network performance problems and outages.
* Perform rigorous problem root cause analysis, focusing on lessons learned to improve processes.
* Troubleshoot applications issues on F5, migrate services/applications from ACE and NetScaler Load Balancers to F5 ADC.
* Review and improve health monitors associated with all services on F5. Create F5 templates and SOPs for BAU team. Create, maintain, and update database of all applications hosted on F5 and NetScaler.
* Experience with ITSM ticketing tool for daily INC, REQ to keep track of the change status and monitoring, adding appropriate detailed notes to keep the status updated for the management and for the requestor.

**Data Centre and Cloud @ McKesson**

**Network Architect Feb 2020 – March 2021**

* Part of a data centre network/security and cloud team, responsible for installing, configuring, upgrading, and implementing changes for Palo Alto firewalls, F5 Load Balancers, Zscaler Cloud Proxy using ZIA/ZPA, SD-WAN Viptela and Azure Cloud on McKesson network as well as maintain the SLA’s guidelines.
* Deployed FortiGate firewall from scratch on Azure cloud in active-passive mode and all the supporting configurations required on Azure including User Defined Routing, Network Security Group, Resource Group, Virtual Network, VNET Peering, etc.
* Configuration, management and troubleshooting of UTM, VPN, Policies and NAT for FortiGate firewalls.
* Working on projects associated with FortiGate firewalls based on customer requirements by designing and implementing the solution along with POC & UAT before go-live
* Great exposure to SDN and network virtualization tech like Cisco ACI and Viptela, working on the SD-WAN implementations by deploying Viptela hardware as well as upgrading SD-WAN infrastructure.
* Build Cisco ACI Greenfield environment with APIC-M2, N9K-C9508, N9K-C9336 and N9K-C93240 hardware and logical entities mapping Legacy network design.
* Developed migration plans and execution from Legacy data centre L2 networks to Cisco ACI Greenfield Spine & Leaf architecture. Troubleshoot Cisco ACI faults with TAC team for fabric upgrade process from 4.2 to 5.x.
* Knowledge of Azure cloud service like compute, network, storage and identity & access management. Hands-on Experience in configuration of network architecture on Azure with VNET, Subnets, Internet gateway, NAT, Route table.
* Azure experience - extended working knowledge in cloud service, IaaS, worker role, service bus, queue, azure blob and table storages and API Management. Configured NSGs for two tier and three tier applications. Experience in integrating on premises servers to Azure. Configured VNETs and subnets as per the project requirement. Configure Azure blob storage and Azure file servers. Configured private and public facing Azure load balancers etc.
* Contributor to multiple technical projects including EDR/ XDR, Malware analysis, threat intelligence, and threat hunting.
* Worked on the Change Request using Service Now for the project related tasks.

**Data Centre and Cloud @ Rockwell Automation June 2019- Feb 2020**

**Sr. Network Engineer**

* Responsible for implementing the network and firewall related changes to the client’s service requests, in accordance with security approval via proper change management.
* Experience in monitoring, debugging, and resolving Cisco infrastructure issues like routing, network hardware/software failure, router and switch installation, configuration and upgrades, WAN outages, and performance issues.
* Worked on ACI environment to manage and troubleshoot the network centric applications. Creating implementation plans and implement changes related to the ACI deployments.
* Contribute to the development and performance of a migration plan from traditional data center network designs to Cisco ACI.
* Involved in various POC projects using Juniper QFX and Arista switches to build a DR site for the organization which includes ACI, VXLAN using Cisco 9K switches.
* Experience in Troubleshooting traffic flows, routing and L3 policies.
* Monitor network performance and troubleshoot problem areas as needed.
* Implement and troubleshoot issues with Device Management Connectivity, Virtual Server Connectivity and F5 upgradation, as well as performance and device connectivity issues.
* Basic & advance F5 load balancer configurations, including migrating configurations from Cisco ACE to F5 and general troubleshooting of the F5 load balancers.
* Used Splunk for real time monitoring, event management and alerting, and to validate the health of physical and virtual IT infrastructure along with monitoring of applications for usage and security analysis. Also used Splunk for fraud analytics and detection, compliance, and incident response.
* Troubleshoot Azure related issues and engage internal teams and vendors for issue resolution. Implemented Networking in Azure Containers. Deploy, Configure, Maintained Palo Alto firewall on Azure Cloud. Deploys and configures Cisco CSRs (Cloud Service Routers) within cloud instances.
* Design, implemented, troubleshooted the SD-WAN Viptela and WAN optimization technologies for efficient delivery of the application data across LAN and WAN. SDWAN implementations at multiple sites of the RA data centres and the regional sites.
* Configure, management & troubleshooting of Zscaler Cloud Proxy solution. Installation and onboarding of new users to enforce Zscaler security policies, also responsible for maintaining access for the XDR defender roaster in client EDR platform.
* Monitoring top users, applications, streaming media, social networking, etc on Zscaler and providing service improvement plans accordingly.

**Backbone & Core Implementation @ Cox Comm June 2018 – Apr 2019**

**Sr. Network Core & Implementation Engineer**

* Experienced with physical technology upgrades on Juniper platform on PTX and MX series (upgrading chassis, line cards, installing optics)
* Deployed latest core provider hardware in complex production environment on Juniper routers.
* Testing and implementing the new and existing circuits (10G/ 100G), deployed and troubleshooting the physical and HW related issues during the maintenance.
* Created the MOP and deployed new circuit augmentation for 100G links on Cisco NCS5K, Nexus7K/ 5K and Juniper PTX/MX series for Cox Comm metro team.
* Provisioned and troubleshoot Cisco routers including Nexus 7k, ASR9k and CRS. Configuring Cisco IOS, NX-OS and IOS-XR router platforms and routing protocols like OSPF, BGP and MPLS.
* Worked with the transport team and identifying the network/ circuit related to Nokia/ Infinera Gear, performed loop back testing and ensure correct light levels on the circuits before circuit turnup.
* Worked with engineers to support lab testing and performance of Nokia DWDM and IP products (PSS/7750, SR/7210 SAS). Created MOP for new integration, lab deployment and software upgradation of Nokia DWDM and IP products. Attended training workshops offered by onsite Nokia Professional and Advance services.
* Experience with Splunk to enable analytics, monitor network statistics for network activity to troubleshoot the ongoing issue.
* Used ITSM ticketing tool for the incidents and the request, track all the project details by updating the notes and the status.

**Network Architect and Advanced Support @ AT&T Dec 2017 – June 2018**

**Senior Network Architect**

* Provided support to Global Operations and Enablement teams for the Core Network which included Cisco ASR9K, Nexus 7k and Juniper MX platform.
* Provided advanced support for AT&T’s D2IPE Juniper MX960 of network service incidents to diagnose problems and resolve time-critical issues.
* MOP’s writing including Upgrade Juniper Routers, Cisco ASR9K, Nexus 7k Switches by verifying them in the lab before handling to the responsible team and provide support during maintenance window.
* Experience configuring Virtual Device Context in Nexus 7010, Configuring, upgrading, and verifying the NX-OS operation system, configuring OTV between the data canters as a layer 2 extension.
* Experience with BGP implementation on several AT&T D2IPE gateways. Tested and implemented in lab environment before the MW to deploy changes that cause no downtime and impact to the customer.
* Performed configuration auditing of all the MX960 that serves as PE in AT&T AIC 2.0 architect, corrected, and deployed the identical configuration on all the MX960 routers for possible route leaks.
* Configured OSPF, BGP, LDP, MP-BGP on Juniper MX960 and Cisco CRS in the Core also provide advanced technical support to AT&T operations team on BGP, OSPF and firewall configurations.

**Security and Data Centre Engineer @ Cox Comm March 2017 – Dec 2017**

**Technical Solutions Architect – SDN/Security**

* Worked in lab environment and provided on-site support to Cox Comm. Engineering organization on Juniper products as MX/QFX/SRX/ Junos Space/ Contrail.
* Assisted with troubleshooting by providing hands-on-experience and overseas and track technical cases to ensure proper support is being made.
* Provided support for Juniper network equipment. Specifically, installation and configuration of Juniper EX, QFX switches, Junos Space, and SRX firewall hardware.
* Certified the POC design that included Juniper M320/M240 routers with QFX switches deployment in the leaf spine environment.
* Configured BGP and OSPF on Juniper (CE/PE) and Cisco (P/Core) routers for the performance testing of MPC7e/MPC5 line cards supporting the SDN Contrail Controller.
* Provided support and involved in upgrading the Junos Space platform from 15.1R2 to 17.1R2, migrating all the firewall to the new platform.
* Provided proof of concept testing for Cox Beta testing of Agilio SMARTNIC with CONTRAIL architecture using Spirent Centre as a traffic generator.
* Experience with OpenStack/Contrail installation, configuration, administration, and troubleshooting.
* Develop and deploy software networks using OpenStack and Contrail.
* Feature and functionality testing of the contrail SDN controller and vRouter.
* Experience in Open stack Liberty environments in volume management using Cinder, network and port management using Neutron and image management using Glance.

**Juniper Contrail Engineer @ AT&T April 2016 – March 2017**

**SDN Solutions Architect – Juniper Contrail**

* Worked as a Juniper SDN resident engineer on AT&T's AIC 2.0 program, providing Open stack/Juniper support to AT&T's operations team.
* Understand the customer's organizational structure and become familiar with the customer's processes and procedures.
* Troubleshoot network related issue related to BGP with AT&T team for proper traffic propagation on the Contrail Controller.
* Provide customer with assistance solving network related problems, such as malfunctions and configuration problems.
* Triage found issues and assist JTAC collecting information and with on-site reproductions.
* Good understanding of Open stack, Contrail, open stack components, and networking concepts.
* Experience in creating/managing multiple tenants in a cloud, creating quotas, triggering alarms when certain thresholds are reached, creating network and creating/customizing heat templates.
* Experience in Cloud Networking/ NFV/ SDN/ Open vSwitch, guided customer in NFV/ SDN Service Orchestration using Heat scripts, Implemented & Optimized SOPs for VNF/ SDN issues resolution.
* Support ongoing efforts in defining best practice policies for Juniper product applications used by Customer.

**AT&T Research & Development Labs Aug 2015 – April 2016**

**Senior Network Engineer**

* Worked on AT&T AVPN vPE project based on Juniper vMX virtual routers on Junos code 15.1F4S2, 15.1F5S2; which will be deployed on the AT&T Integrated Cloud (AIC) architecture.
* Worked as a Network Systems and Telecommunication Engineer on multiple projects simultaneously in AT&T’ s deployment of the Juniper MX960 as a PE router in the domestic US network and MOW.
* Worked on ASR9K MIS Automation Testing Project on MARO (Multiple Access Redundancy Options) feature and created test logs and executing them on iTest, checked existing setup and current requirements.
* Provided tier 4 supports for the Service Migration in Redmond, WA Willows Lab for the MX\_CE to JNU (JUNOS Node Unifier) Satellites – EX4300 Ethernet switches. Certification of the EX Satellites with target JUNOS and JNU S/W and Nx10GE uplink connectivity to MX\_CE.
* Installed and configured the EX4300-32F & EX4300-48T switches and provide connectivity to existing MX960 CE routers via Nx10GE uplinks.
* Development and maintenance of network operational support procedures related to the Juniper Networks products, Validation testing of the Juniper Networks products with 1G/10G/40G/100G on MPC5EQ line cards.
* Network related testing of new features on MX960 (64-bit RPD, NSR, ISSU, LFA, BFD) to ensure that the Juniper Networks products operate correctly.
* Configured and performed testing for EVPN-VXLAN Centrally-Routed Bridging Fabric Using MX Routers as Spines, as well as tested the static Virtual Extensible LAN (VXLAN) feature in a small multichassis link aggregation group (MC-LAG) network and in small networks on Layer 2 (L2) VXLAN gateway devices.
* Knowledge and operational experience with SDN, VLXAN, VTEPS VNI, Bridge Domain, EVPN, MP-BGP, Spine and Leaf architecture.
* Preparation of equipment configurations and validation of configurations for new installations, changes within the network, software upgrades.
* Daily interaction with AT&T lab support engineers, Juniper RE/SE to isolate and identify configuration, design, & software anomalies, ability to clearly articulate findings in written and verbal communications with development level engineering staff.
* Hands-on experience with lab environments and network equipment test sets such as IXIA router, Spirent, etc.

**Koch Business Solutions, Wichita, KS May 2014 – Jul 2015**

**Data Centre Networks Engineer**

* Managed and lead projects across site locations for data centre Services in Wichita, Green Bay, and Atlanta.
* Worked with clients to evaluate and define operational requirements for implementation of new data centre technology.
* Migrated Legacy Data Centre to New Generation Data Centre. Design Network which included Cisco nexus 7K, 5K with several Nexus 2000 FEX and MDS Storage.
* Experience with Cisco Nexus Switches, 7K, 5K, 2K(FEX) installation, configuration, and deployment of (VPC, VDC, Fabric path, FCoE, OTV etc.) in the data centre.
* Design and implement SAN and virtualized storage, create a management plan for managing them through VMware vCenter, supporting windows and virtualization technologies on Cisco UCS equipment.
* Provided network installation and firewall support to various internal groups for upgrades and migrations. Configuration of Palo Alto firewalls, routers & switches to meet business needs.
* Implemented Zone Based Firewalling and Security Rules on the Palo Alto Firewall, Implementing changes on ASA firewall, Checkpoint firewalls and BIG IP LTM (F5)

**NetApp; Wichita, KS Jan 2012 – May 2014**

**Systems QA Engineer**

* Experience with NetApp E-Series storage array systems & its management software SANtricity.
* Conducted, Planned, Configured, Executed and Verified NetApp E­Series Storage Array and DSM/MPIO failover solutions for supported Microsoft Windows Server platforms using Microsoft Hardware Certification Kit.
* Tested, Planned, Documented and Delivered quality end to end SAN solutions by ensuring Interoperability between NetApp storage array products and third-party vendor components and operating systems.
* Attended meetings with OEM customers to resolve vendor issues. Also, obtained help from OEM customers to identify and eliminated issue that we encountered during legacy support testing.
* Producing manual and automated tests with HP Application Lifecycle Management (ALM v.11).
* Experience with ClearQuest & Synergy 7 source control for Agile and quality improvement.
* Perform test on high performance RAID (disk array) storage systems in Integration/Acceptance and Regression phases.
* Experience with various Operating Systems and Virtualization, Windows Servers, Linux, Solaris, AIX, VMware VSphere, Microsoft Hyper-V.
* Test planning, early access beta program testing, certification testing, execution, defect reporting, root cause analysis, bug fix verification and submission of compatibility matrix listings.
* Delivery of end-to-end solutions to NetApp Interoperability Matrix (IMT) for customers to pick up Array configuration, Interconnect configuration, host configuration and vendor component configuration for Interoperability test.
* Installing, configuring, and testing of release and pre-release track operating systems, HBA drivers, Controller FW, and Host SW.
* Tested IBM blade centre SAN solutions with multi­vendor and multi­protocol SAN components (Brocade, Cisco and QLogic).
* Test process automation using Windows batch scripting, Linux shell scripting and Perl.