**Waheed Usman - (SC Cleared & NPPV 3 Cleared – Lapsed)**

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| **CCNP** | **PCNSE** | **AWS - SAA**  |
| **CCDP** | **Meraki CMNA** | **CCSE R77** |

**Objective:**

To utilize, sharpen and upgrade my skills in a growth oriented organization, my main strengths are ability to work effectively as a part of the team, my penchant for taking initiative and unshakable attitude.

**Professional Summary:**

* 12 years of IT industry experience.
* Experience in Local and Wide area Network and Security protocols.
* Experience in Banking and Financial Services.
* Knowledge and demonstrable operating experience in providing and deploying secured solution using utilizing technologies such as **IPSEC site-to-site and remote access VPNs, SSL VPNs, 802.1x, encrypting data while on motion or at rest, multiple vendor firewalls and physical and logical segregation of the network**
* Proven experience in network design and implementation **Routing protocols RIP, EIGRP, OSPF, BGP, route summarisation, BGP,** multi vendor experience with **HP Procurve (Aruba) switches and Comware switches Cisco Catalyst and Nexus switches and IOS routers, F5 Big-IP Load Balancers on LTM and GTM modules, Bluecoat WAN optimisation (MACH 5) and Packetshapers.**
* A creative problem solver, comfortable with challenges.
* Quick learner with ability to translate complex ideas and processes into technical facts.

**Summary of Devices and Technologies Used:**

**Firewalls:**

* **Palo Alto** – configured and managed PA-200, PA-3000, PA-5000 series.
* **VMware vShield** – configured vShieldrules, troubleshooting using flow-chart, created port groups.
* **Juniper SRX Firewalls** – SRX240, SRX220H2, created cluster both in Layer3 mode as well as **Transparent Mode,** Configured **IDP (IPS)**
* **Checkpoints: IPSO and Gaia, R65, R70, R75.20, R77, R80 and VSX** configured checkpoints on daily basis to customer’s demands, configuring using Smart Dashboard, troubleshooting using Tracker and Monitor as well as CLI for TCPDUMP and fw monitors to track.
* **Cisco ASA and FWSM,** configured multiple-contexts, to segregate the traffic, configuring from scratch, configuring 6500 to forward the required traffic to FWSM by using Firewall VLAN-groups.Maintaining the network and tweaking it on the daily basis to customers’ requirement. Also worked on 5520,5540/5545x etc.
* **Fortinet:** configuringFortigate Firewalls 300D, 1500D in multiple **vDOMs**and FortiManager
* **Cisco Meraki**: Firewall, Wireless and switch – configured VPN, Guest Wireless and mobile Device Management.
* **Juniper Netscreens**: configuring Netscreen Cluster in Multi Vsys mode to segregate the traffic for multiple customers, configuring zones, routes, interfaces, shared-zones to allow multi-vsys traffic to communicate if required. Connecting Netscreen as Core Device linked to BT MPLS network for connections to around 500 sites.

**Routing & Switches:**

* **HP Comware switches and Routers**: **12900E, 5930s, 5940s and 5130, HSR Routers** – IRF and multi VPN instances configuration
* **HP Aruba and Procurve switches5406z, 5406zl, 2910al, 2920al, 2610 and 2620**. Configured 5406s as core switches providing all the **routing** on them. I configured them to use **VRRP with loadbalancing** between the two cores.
* **Cisco Catalyst Switches:**  configured Catalyst**3750s, 4500s, 6500s** (VSS mode),
* **Cisco Nexus: 2000 (FEX), 5000**  series throughout the data centre. Maintaining the network
* **Cisco Routers:**  ASR 9K and ISR 9K

**Load Balancers, Proxy, Packetshapers and Infoblox:**

* **F5 Load Balancers LTM and GTM**- configuring and managing BIG-IP 6800s in Active standby mode to allow customer to you Load Balancing, SSL – offloading and stuff for multi customers.
* **Bluecoat s400-30 –** Designed & configured **Bluecoat Proxy** (with Mach5 license) – Configured SSL interception, **Client Authentication- Not originally supported in Mach5 but by configuring in CPL was able deliver that and got Symantec to support that, by updating their documents.**
* **Bluecoat s400-30 –** configured **Bluecoat Packet Shapers** – Configured packet shaping policies for multi services and muti-tenant environment based various criteria.
* **Infoblox –** designed and configured **DNS views using access-lists, records, DHCP scopes, PoC for IPAM discovery.**

**Wireless:**

* **Cisco Wireless LAN Controller4400**: Configured WLC to allow different VLANs, guest networks and BYOD (Bring your own devices) network.
* **Meru WLC 4200** on different sites to allow users to connect on each site to connect to Public (Guest) network. The large numbers of users were involved to access WiFi thought the venues.
* **Aruba WLC and ClearPass -** Configure multiple profiles oln Aruba Conrollers, also using Aruba ClearPass as **NAC device** to allocate different profiles while using the same WiFi SSID.

**Core Skills Summary:**

* Writing Proposals, High Level (HLD), Low Level Document (LLD), work packages
* Designing secured solutions for Central and Local Government compliant to required security levels set by CESG and getting those approved by CLAS consultants
* Attending Customer and Technical CABs and Project Design Review Board (PDRB)
* Deploying required encryption protocols and rolling out 802.1x for managed devices.
* Upgrading and new installation of IPSO images and Checkpoint Packages, IPSO to GAIA upgrade.
* Configuring, maintaining and troubleshooting ASA firewalls – Multi contexts – FWSM on cisco 6500.
* Configured Juniper Netscreen ... Multi Vsys Cluster (HA)
* Configuring and maintaining the changes Nokia Checkpoint R65, R76 & R77
* Configuring F5 Big-IP load balancers LTM and GTM
* Supporting migrations to AWS (Amazon Web Services) and other cloud solutions – configuring Route 53 etc.
* Adhering to policies and procedures as well as ITIL best practices.
* For Loop prevention and Layer2 security techniques
* Strong understanding of dynamic IP routing protocols i.e. EIGRP, OSPF and BGP
* Policy Based Routing (PBR), IP SLA tracking
* eBGP Neighbour configuration, Internal BGP and BGP Route Filtering, BGP Path control concepts.
* Experience in HP Procurves/ Aruba switches and Comware switches e.g. FlexFabric12900, 5900s etc.
* Configured Cisco Catalyst 6500, 4500, 3750s, 3560, 2960s, cisco Nexus switches.
* Configured Meru Wireless LAN Controller 4100, 4200
* Configured cisco Wireless LAN controller 4400.
* Configured Cisco Meraki devices i.e. Firewall, Wireless and switch using Meraki Dashboard
* Installing and configuring server 2003, 2008, 2012, 2016

**Education:**

**Bachelors Comp. Sciences (BCS)**

**(*Cresset College (Computer Science)*** (2000 – 2003)

**Certifications/Diplomas:**

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| **CCNA** |  | *Cisco Certified Network Associate* |
| **CCNP** |  | *Cisco Certified Network Professional* |
| **CCDA**  |  | *Cisco Certified Design Associate* |
| **CCDP**  |  | *Cisco Certified Design Professional* |
| **CCNA Security** |  | *Cisco Certified Network Associate - Security* |
| **CCSA R76** |  | *Check Point Certified Security Administrator - R76* |
| **CCSE R77** |  | *Check Point Certified Security Expert - R77* |
| **CMNA****PCNSE** |  | *Certified Meraki Networking Associate**Palo Alto Networks Certified Network Security Engineer* |
| **AWS SAA** |  | *AWS Certified Solutions Architect - Associate* |
| **CCNP Security** | *(In Progress)* | *Cisco Certified Network Associate – Security* |

**Employment History:**

**Gatwick Airport (March2017 – Present)**

***Job Title: Network Design /Architect***

Working as part of the Architecture of the airport demands a lot intensity especially when core IT infrastructure is transforming as well as well as ongoing projects Corporate and 3rd party services.

* Core Member of CAB to present Architecture and provide input on all changes presented
* Attending meeting with Business owners , suppliers and vendors to consolidate requirements and coming up with a solution
* Creating initial architecture packs where required, writing HLDs and DLDs
* Setting the expectations of the Business around delivery of the project, the timeline and predicting and mitigating any risks
* Core Member of PDRB (Project Design review Board), present own designs to the board as well as reviewing others
* Managing projects from the technical prospective, working closely with Project/ Program Managers to help delivering the projects on time and advising on resource allocation.
* Attending meeting with suppliers and vendors to communicate requirements for all the involved parties in particular project or service
* Conducting workshops with engineers to help implementers familiarise with the proposed solutions/designs
* Handing over projects to BAU upon completion
* Running PoC for complicated solutions, Hands on implementations when required
* Supporting Network engineers as SME in case of any issues, helping in troubleshooting process or guiding peers towards the steps

Notable Projects:

* **Network Refresh –** Contributed in design and delivery of the whole Gatwick-wide network state upgrade
* **FIDS (Flight Information Display System)** – Designed using the cloud solution by connecting to AWS via Direct Connect over the private MPLS and migrating with zero outage on 1300 devices. Reducing the bandwidth requirements by using Bluecoat Proxy – MACH 5 acceleration/ caching. Saved 400k for employer by troubleshooting the project that was in trouble due to misunderstood requirements by predecessors and suppliers, while getting Symantec the vendor to update their documentation on their product for ongoing support.
* **Baggage Solution** – Design, Migration plan and implementation of the Baggage solution provided by a supplier while the servers are hosted in their Datacentre, as part of Project to move all the critical services over the MPLS link rather internet/ VPN
* **Internet Resilience Program with DDOS protection**: Designing the Multi-homed Internet solution for Gatwick by owning AS and Public IP Address range using BGP between multiple ISPs. Creating PoC and Migration Plans for services/ suppliers and Tenants. Using Verisign cloud solution to mitigate DDOS.
* **SIP Integration**: Designing and deployed the network and security infrastructure to support corporate link to the new SIP trunk for Gatwick. Also designed and delivered SIP as a service to 3rd parties at Gatwick.

**Gatwick Airport (for Xchanging – CSC – June 2016 – Feb2017)**

***Job Title: Network & Security Consultant***

Working in a highly demanding airport environment, where there is no room for negligence. Need to cover all the bases. The role requires involvement of full life cycle of the project as well acting as 3rd /4th line support as and when required as business continuity is critical. The roll require wearing various hats according to the demand.

Activities performed regularly.

* Attending Pre-Sales meeting with client for small to medium IT commercial projects
* Providing the quotes by forecasting the amount effort required by various resources
* Attending meeting with third parties to understand their requirements and provide advice for airport IT commercial projects
* Creating Network Drawings after the gathering the requirements
* Planning the changes and writing the technical Configs
* Implementing all the critical changes.
* Supporting the BAU team on hours of panic
* Speaking with vendors and suppliers in case of any issues

Technologies Used & Major Tasks:

* Cisco switches: Catalyst 6500, 3850s
* HP Comware Switches
* Fortigates multi vDOM
* Checkpoint R80 – managing and deployment
* Palo Alto, NextGen features
* Bluecoat Proxy
* Bluecoat Packet Shapers
* Worked on Network Refresh POC
* Worked as Architect to deliver Digital Radios all over the Gatwick estate
* Bluecoat Proxy introduction in the Network
* IPTV deployment over the airport using Routed Multicast

**Central Government (on behalf of CGI - Feb2016 – May 2016)**

***Job Title: Network & Security Consultant***

Working in a highly secured environment, going through the procedures and writing a few for decommissioning etc. Planning things ahead for the delivery of the various project related tasks. Writing details designs keeping the sensitivity of the material in mind, getting them approved. Most importantly implementing what has been accessed and approved by the authority.

My roll includes both operational security in the on-going work and delivering the Project tasks in relation to DC migration.

Duties include

* Writing LLD and implementing the DC Migration tasks efficiently.
* Implementation & Operational security of the Authority Security infrastructure and applications
* Implementing the tasks according to security procedures defined by the authority
* Making sure that security procedures are been followed during design and implementation stages.

**Barclays PLC (on behalf of Dimension Data - March 2015 –January 2016)**

***Job Title: Technical Consultant (Security Team)***

As a Technical Consultant, duties include both hands-on and hands-off tasks e.g. writing the detailed Technical processes in line with procedures and standards set by Barclays Bank, making sure those have been met. Raising changes, assigning tasks and implementing changes as well as supporting others to implement theirs.

**Firewalls EOL Project**

Worked on Firewall End of Life project throughout Barclays worldwide migration. Project includes various streams within itself. My duties include:

* Creating IDBs (Design Docs) for the required migrations and representing them in the CABs
* Leading the OS upgrade on Nokia devices from Check Point R70 to R77 and delivering that hands on
* Raising changes in Service Now and following Barclays processes for Checkpoint hardware upgrade in US
* Raising changes for EMEA changes and raising requests in various Bank owned systems for smooth migrations
* Checkpoint to FortiGate Migration, partly using conversion tool
* Configured Palo Alto Firewalls to facilitate the migrations.
* Attending CABs and projects all over the world e.g. EMEA, AMER, APAC
* Working outside the hours to deliver the project
* Preparing LABs to implement the processes and help the team to understand what’s required in the Production
* Working as Point of escalation while others are implementing the changes

**Capita Secure Information Solutions (CSIS March 2014 – Feb 2015)**

***Job Title: Network Consultant (Project Delivery)***

Role included visiting costumer sites with very limited local information and delivers a solution to the customers as per their requirements. Part of my role is to prepare Design and implement if required. Steps include documenting the existing network, preparing the High Level Design (HLD) where required and then preparing the Low Level Design (LLD). Then according to the requirements implement the critical changes myself or handover the Implementation Plan to another resource.

Most of the customers are part of the Public Sector and top governments departments.

**DC Move & PSN Compliance**

**Customers: Watford Council & Three Rivers Council**

Worked as a TA (Technical Architect) on the project I was given the task to Make the network PSN Complaint and also facilitate the customer for Data Centre Migration as the Local Authorities wanted to merge their IT infrastructure.

Prepared the HLD for DC move, after the customer’s acceptance prepared the LLD and Migration Plans.

Stages Included

* DMZ re-layout to create air between DMZ and Corporate network
* 2 Pier Firewall structure
* New VLAN structure & Subnets
* OSPF layout between the sites
* Remote access Solution
* IPS
* Migration

**Secure Remote Access Solutions & PSN Compliance**

**Customer: Lewisham Borough of London**

As a TA the role included creating Design for the Secure Remote Access in compliance with current guidelines of CESG. The LA has got around 75 sites interlinked and around 500 remote users. Preparing a plan of action by keeping every aspect in mind to achieve the PSN compliance causing minimal downtime which included.

* Created Layered infrastructure design as required by CESG
* Figuring out DMZ services and creating separate groups as per security requirements
* External & Internal DMZ designed
* New Checkpoint HA (Cluster XL) pair introduced in the design to create 2 Pier structure
* Introduced Palo Alto Firewall (HA) for 2 Pier Firewall structure.
* Migration plan from cisco VPN client to 5.0.7 to AnyConnect
* AnyConnect with Posture Check and Remediation
* 2 Factor security
* CA used for managed devices for remote authentication
* 802.1x authentication for managed devices on site
* Core and Access HP Procurve switches to be configured to allow the network changes.

**GCSX to PSN (Public Sector Network)**

**Customers: Watford Council, Three Rivers Council & FSA (food Standards Agency)**

Discovered all the services which can be effected by the move, prepared a document and prepared Plan for the migration, got customer’s approval found out all the requirements by contacting Cabinet Office and documents supplied by them, where required raised some changes and prepared workplans in advance for smooth cutover on the day. Once tested finished the hand over document for future reference.

**Capita IT Services (Sep 2012 – March 2014)**

***Job Title: Lead Deployment Engineer (Networks) – Data Centre***

Being part of the projects engineer’s team, my role was quite senior. I had toimplement the projects from well reputed costumers on to our Data centre which has got multi-vendor environment. That includes **Cisco 6500s, 3750s stacks, ASA FWSM, Nokia Checkpoint, F5 Load Balancers (LTMs GTMs), Juniper Netscreen-ISG 2000, PA-3000 etc.** I was assigned with the projects with some information on the service orders. If a TDA has assigned to that project then we get the design from them or else a lot of the time we have to think of the solution ourselves, Then we would talk with the TDAs and Solution architects Project managers and in some case customers to gather the information needed for the successful completion of the projects. The whole network is secured by firewalls protecting the networks. Using 6500 to install ASA FWSM and using multi-context mode.

As Lead Engineer, many times have work on the Design side of the projects, and suggest the ways to implement the requirement.

Deployed the new tools set across the whole network state consisted of 6000 network devices. It included SNMPv2c, sylogs etc.

We control the traffic to talk with hundreds of customer’s site using Netscreens Firewalls then on FWSM for each internal network and the internet facing Checkpoint while a lot of the servers sit behind the F5s. When needed we also LAN configure devices for customer’s site also help testing the customer’s request using logs and captures on ASAs or FWSM, tcpdump and fw-e monitor on Checkpoint & TCMPDUMP ON F5s.

Had to work under pressure as we got a lot of responsibility and complete the projects within the allocated time. Work overtime to make our projects successful as the customers are very high profile such as **the Pensions Regulators, BBC, TV License, NHS, different Insurance companies, Banks and other Government bodies.**

Duties included

* Implementing & supporting Data Centre projects and infrastructure.
* Implementing the tasks according to security procedures defined by the company
* Making sure that procedures are been followed during the implantation stages.
* Troubleshooting the issues, and taking ownership of any network and security problems.

**Capita Group Plc (Apr 2011 – to July 2012)**

***Job Title: Implementation Engineer***

I have to implement the technology onto different sites. In my role I have to follow the pLAN set by the company to facilitate the customer. Keep reporting to my Manager for further instructions and as well as to update him with the progress of the work and if there is any issues I am facing which require to either make the appropriate changes to plan or any other way of dealing with it.

**Projects History:**

**Westminster Wireless Expansion BYOD & IPAD Integration:**

Configured **CiscoWLC4400** and **Meru WLC 4200** on different sites within Westminster Council to allow 2000 users to connect on each site to connect to Public (Guest) network.

Other part of the job was to configure the Wireless LAN Controllers to allow Staff member to use their IPADs and connect them to the network. As security was a critical requirement the devices should be filtered through their MAC Addresses. So I used **MAC Filtering and created an Access List. So only Allowed Mac Addresses were allowed to connect using the SSID.**

**WAN Migration for WSCC:**

For 6 months worked with a team and independently, there were around 700 sites to be migrated to Synetrix network, the sites were both schools and cooperates. They were moving to **MPLS** and were previously using Cisco Layer 3 switches as their **router i.e. 3750, 3560, 3550**. All of the routers were replaced with **Juniper’s 210s and 240s.**  My part of the job was to liaise with the Synetrix P.E engineers’ and go through the cisco’s configs and match them up with the Juiper’s config with the help of the guys on the other end, troubleshoot any issues. I have completed the migration within designated time as the sites had to be live. So it includes working under pressure.

**Various BSF (Building the School for Future) Projects:**

Installing and configuring BSF network. It mostly includes **HP Procurve switches** i.e. **5406zl, 2910al, 2920al, 2610 and 2620**. Configured 5406s as core switches providing all the **routing** on them. I configured them to use **VRRP with load balancing** between the two cores. Configured them to support **VOICE** VLANs and **Native VLAN for VOICE capabilities.**

A few times to had to perform the similar actions on the **CISCO** based network as well using **3750s** and stacking them, **3560s.** Configured **HSRP** on the Core Switches.

I also configured and managed the **Meru WirelessLAN Controller** and **Cisco WirelessLAN Controller.** I configured the whole network to support Wireless. Configured **PAN** network for Westminster County.

**Other Random Projects:**

Configured **SITE-TO-SITE VPNs** for different business using Cisco Equipment mostly, configured **Cisco ASA 5510 and 5520.**

Configured **Blackberry Enterprise Server** on the Microsoft Exchange Server to receive emails on the Blackberry Handheld devices.

**Cnetso Ltd– London, (Jun 2007 – Mar 2011)**

***Job Title: Network Engineer***

**Responsibilities:**

Working in schools for them as well as small businesses,

Responsible for installation and configuration of networking equipment in a LAN/WAN environment. Maintaining and configuring

Microsoft Server 2003 environment Working on technologies like Routing, IP addressing, VLANS, and other network topologies. Working as a engineer on Cisco LAN/WAN networking protocols, Cisco switching architecture. Implementation of local area networks for various clients of the company.

**Projects History:**

**Support at Olympic Park for Ramesys**

Worked for Ramesys for at different sites like Olympic Park where I was Help desk support Engineer (managing AD, remote administrations using DAMWARE, used ticket system, mimesweeper for email management).

**ProfiMinds**

Teaching Cisco concepts i.e. switching, VLAN, VTP, STP, VLSM, routing, Rip V2, OSPF, EIGRP, ACL, NAT/PAT, PPP, Frame Relay and etc. to CCNA candidates and helping them implementing these in lab.

**Educational Sector Experience**

Working for Cnetso Ltd providing services to educational department, especially in Haringey Council whereI manage the services onthe behalf of **Cnetso Ltd**. i.e The Green School, Alexandra Primary School, Downhills Primary School and Belmont School.

Worked as lead engineer in many schools for Ramesys in Walthamstow, Uxbridge and Chessington.

**Haringey 6th Form Centre forRamesys**

Been working on a long contract with Ramesys supporting the Haringey 6th Form Centre. Supporting students and teachers, did imaging, profiles, backups and things like that which are involved in everyday support duties. Using the ticketing system logged the calls, process them and closing them.

**Shoosmith Solicitors**

Installed and configured the layer 2 and Layer 3 technologies: VLANs, VLAN trunking, Spanning Tree protocols using 3550 switches. Implemented ACL, OSPF, PPP with CHAP authentication on the 3600 and 1800 series routers according to the client requirement.

##### GLOBAL PROFILE:

**Interests:** Voluntary work for Charity organisations, learning new skills, playing cricket, table tennis and badminton.