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Objective

To seek a challenging and learning experience in the field of network/security infrastructure through innovative thinking and grow along with company by the way of continuous learning and enhancement of personal potential.

Key Skills and Certifications

- Cisco Certified Network Associate (CCNA- R&S, Security and Voice)
- Cisco Certified Network Professional (CCNP- Route/Switch)
- VMware Certified Professional 6 – (VCP6-DCV)
- VMware Certified Professional 6 – (VCP6-NV)
- Network device build/management Cisco Nexus and Catalyst, Arista, Juniper, Palo Alto and Checkpoint
- Datacentre and enterprise solution, builds and manage using industry best practices.
- Remote access VPN, Checkpoint, Palo Alto and OpenVPN
- Network security principles from access layer to boundary protection.
- Implementation of Cisco Identity Services Engine (ISE), RADIUS, 802.1X and TACACS+.
- Internal and external routing configuration, OSPF, EIGRP, BGP, VRF, VPN methods
- Software defined networking through VMware NSX V and T.
- Build and manage 2FA RSA authentication manager 8.x
- Over 5 years of experience of Agile working, including Kanban, 5S, feedback, retrospectives, VFQ.

Recent Projects

Arista Network automation

Architecture, Solution development, and Delivery manage of a Network transformation programme.

Replacing an entire Cisco Enterprise - Multi Data Centre & Offices with Arista Leaf & Spine Layer 3 VxLAN multi VRF, EVPN MP-BGP based solution, Cognitive Campus and Wi-Fi, also integrated with Cloud Vision Portal.

Arista Validated Design AVD based automation with custom NetBox API integration for single source of truth, written in python3, Container based pipelines integrated with GIT. Ansible playbook development eAPI integration, CVP API integration. Test Pipeline & Assurance checks

Integration with AWS Direct connect, Palo Firewall clustering. Migration of over 100 Networks.

Registers of Scotland,

Edinburgh,

Mar 19 to Present

Senior Network Engineer

At RoS worked closely with RoS site resilience team responsible for maintaining 1 on-prem datacentre, 3 co-locations and 2 campus offices in Scotland.

- Worked on project hydra for replacing compute and storage platform
- Worked on Firewall migration project (Checkpoint to PaloAlto)
- Worked on procurement and delivery of multiple WAN links including direct connect to AWS
- Provided network consultancy to Dev enablement team for OpenShift deployment
- Working with third party suppliers to resolve support issues.
- Design and implemented DNS migration project from DYN to AWS route53
- Mentoring junior member of teams within RoS

Employment History

FNZ UK LTD,

Edinburgh,

Sep 18 to Mar 19

I was part of 5-member team, Global Network Team looking after 11 Datacentres and 16 Office campus across the world. Majority of my work at FNZ is project based with some BAU tasks, escalations by internal teams and external clients.

Datacentre Consolidation Project

- Working with internal teams to scope the initial design requirements.
- Producing detailed design document, network diagrams, outlining rack diagrams and migration strategy.
- Audit of all network devices and upgraded as per vendor recommendations and application requirements.
- Translate/Modify configurations from Catalyst to Nexus Switches.
- Training and mentoring for junior team members.
- Show & tell the progress of project to wider infrastructure team.

Firewall Upgrade Project

- Design and built two Checkpoint MDM (Multi domain managers) one in EU (Edinburgh DC) and second in New Zealand (Wellington DC) for resilience and effectively manage the Global firewall deployment.
- Created two domains, 1 for EU and second APAC/AUS
- Migrated the existing R77.30 SmartCenter to R80.10 domain server.
- Consolidate and improve firewall rule base as part of migration to R80.10

Registers of Scotland,

Edinburgh,

Jan 17 to Sep 18

Principal Network Engineer

At RoS I was part of Infrastructure team responsible for maintaining 2 DataCenters and 2 campus offices in Scotland.

- Lead the Checkpoint firewall refresh project
- Designed and implemented BGP multi-homing project
- Provided network consultancy to internal cloud team for OpenShift deployment
- Working with third party suppliers to resolve support issues.
- Designed, procured and implemented external DNS project.

BBC

Location independent

Aug 16 to Jan 17

Lead Network Engineer

BBC have initiated Aurora programme which involves building next generation digital infrastructure and have chosen BT to provide WAN connection to interconnect all the remote sites in UK. I am part of 8 member team responsible for migrating 76 sites from Vodafone to BT circuit.

- Liaise with Technical Design Authority (TDA) and Solution Architect to understand overview of the project and produce detail technical design document for each site capturing migrating plan, rollback plan and the configuration details
- Work with field engineers to install 2x Cisco 9006 series ASR routers to act as new core and establish remote connectivity. Installed relevant software packages. Configured ssh, snmp, aaa, ntp, ipsla, netflow, vrf and ospf features on the new core.
- Create Change Request (CR) on ITSM and attend Change Authority Board (CAB) meeting and get the CR approved.
- Work with all the stakeholders (BBC,BT, Vodafone, ATOS) and ensure remote site is migrated to new BT circuits smoothly and transparent to the end users.
- Update the documents and model the new WAN connections on Spectrum (Network Monitoring Application).

**Registers of Scotland,
Cloud Platform Network Specialist**

Edinburgh,

Nov 12 to Aug 16

- Complete redesign and delivery of the underlying network infrastructure to enable the business to move towards Virtualisation of the production environment.
- Implemented Network Core layer to be fully redundant using HSRP, VRRP, VSS and VPC
- Integrated VCE VxBlock private cloud solution into Corporate Network.
- Design and configuration of Nexus 5k and 2k fabric extenders for data centre networking.
- Virtualisation of Identity Management (RSA) and Monitoring solution (Solarwinds).
- Provisioning and maintenance of WAN connections across multiple sites.
- Configuration and maintenance of remote access VPN and site to site VPNs.
- Implemented new OSPF and BGP routing domains to include route filtering and route redistribution for greater efficiency.
- Implementation and Integration of Cisco wireless network into Cisco PRIME monitoring solution.
- Implemented and managed IPsec VPN site to site VPN tunnels/Remote Access VPN/SSL.
- Admin and implementation of HA on Cisco ASA, PIX Checkpoint appliance and NSX firewalls.
- Implemented and maintained RSA Authentication Manager for secure access and 2 factor authentication for remote access VPN.
- 3rd party tender review board member for all network related procurement activities.
- Troubleshoot Network issues using NetFlow, syslog, Wireshark, Loginsight (VM).
- Working with Dev-Ops in Agile environment to further the business Digital journey
- Working with KanBan and SCRUM for greater project visibility and workflow.

**Coventry University,
Network Engineer**

Coventry,

Apr '12 to Nov '12

- BAU and Project engineer as required.
- Call Manager (v8) administration.
- Installation and configuration of Cisco Security Appliances.
- Installation/maintenance of 200 Wireless AP's, with detailed heat maps for each floor.
- Solarwinds integration of all networking devices.
- Documented the whole network with detailed topology diagrams.
- Populated 5760 ports onto Caplum database for ease of trouble shooting.
- Upgraded existing links between sites from 1G to 10G.
- Upgrade of data cabinets and related patching.

Computing Prowess

- Cisco Hardware: Router-7000/4000/3600/3800/2800 series, Catalyst-6800/6500/3750/3850/2900 series, Nexus 9k, 5k, 2k. Cisco UCS Platform.
- Firewall-Cisco PIX, ASA, 5500 series
- CheckPoint: Checkpoint NGX Firewall-1 with VPN-1 on Nokia IPSO, IP appliances, 2012 appliances, 4600 4800, 12000 security gateways and Smart 1-5 management appliance
- Network Management: SNMP, Syslog, Radius, Tacacs+ Cisco Prime infrastructure, Solarwinds and spectrum-OneClick.
- Operating System: Cisco IOS, NXOS, Checkpoint Secure platform and Gaia, R77.x, R80.x Windows 2003/2008/2012/2016, Linux
- Virtualization: VMWare vSphere 5.1, 5.5, 6.0 and 6.5. Network Virtualization VMware NSX.

Education

- Postgraduate Diploma in Advanced Networking (Edinburgh Napier University)
- M. A. Business Management (Leeds Trinity)