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Network Architect CCIE# 53464

OBJECTIVE

I am currently looking for opportunities in network architecture, design and implementation. I have 9 years of extensive experiences in Wireless, Data Center, Security fields, and I specialize in Routing and Switching (CCIERS# 53464).

EDUCATION

2006 - 2010 **Telecommunication Engineer** Diploma from Engineering school ENSEIRB-MATMECA in **Bordeaux, France**.

2010 Master's degree in **Network, Technology and Health**, speciality **Network and Systems**, at University of Bordeaux

SKILLS

Internet Protocol	Network Devices	Certifications	Programming	Operating Systems
DMVPN, IPSec, MPLS, EIGRP, OSPF, BGP, RPVST+, NAT, QoS, Multicast, IPV4/V6 …	Cisco, ISR, ASR, IOS-XR, Switch L2 / L3, Nexus 7K 5K 2K 1KV, AP, WLC, ASA, FTD, WAAS, Meraki, F5 …	CCIE RS # 53464 CCNP RS, CCNA RS	Ruby, Python, Perl, Bash, Batch, PHP, MySQL, Html, CSS, Javascript…	Debian, Ubuntu Windows XP / Vista / 7 / 10 Fedora, CentOS, Mandriva, Mac OS

EXPERIENCES

02/2019 – 06/2019 (4 months) | **Network Consultant** at **Accenture** | ***Reading***

- Design and implementation of network refresh of WAN, LAN, WLAN and Firewall solution on multiple large sites and campuses.
  - Cisco ISR4431 for WAN. IWAN Solution with APIC-EM. Dual-router with multi-hubs DMVPN networks. Local breakout for Internet and Express-Routes on MPLS. Routing protocols BGP for MPLS, EIGRP on the DMVPN networks and OSPF on the LAN. Cisco Prime Infrastructure for monitoring.
  - LAN Core Meraki switches with MS410 and MS425. Layer 3 routing for the LAN with OSPF.
  - LAN Access switches with MS210 and MS225. Replacement of the entire legacy switching environment.
  - WLAN with Meraki Access Points MR42. Multiple SSIDs (Corporate, Partners. Guest) with different levels of security. AAA done on Cisco ISE.
  - Meraki API scripting as well as Meraki Templates for rapid deployment, monitoring and reporting.
  - Check Point Firewalls used for NAT and filtering

09/2017 – 09/2018 (13 months) | **Project Engineer** at **Natilik** | ***London***

- Design, build and implement projects related to Enterprise Network, Wireless, Data Centre, and Security:
  - Design and implement from the ground up, a highly secure network environment for a major bank in London
  - Design and implement a worldwide Meraki network for high-end retail companies, with LAN, WLAN, Firewall
  - Design and implement multiple wireless environment for Corporate, Staff, Guest and others, with various types of security and authentication protocols
  - Design and migrate multiple Data Centres to high performance technologies such as Nexus, C9400, C6880, etc…
  - And multiple other projects…
- Design and implement from the ground up, a highly secure network environment for a major bank in London
  - 802.1x EAP-TLS with authentication via user certificates on Wireless as well as Cable. Both enforced by ISE.
  - Collapse Distribution and Core switch C3850. Multiple stacked C3850 switches on the Access layer and C2960 switches for the management
  - UCS running VMWare ESXi 6.0 for various administration virtual machines (SolarWinds, Bomgar,…)
  - FTDs for filtering and inspecting traffic amongst different security zones, and enforcing IPS
  - F5 LTM and ATM for Authentication of users via Users certificates, transparent proxy via life SSL decryption
  - Data Loss Prevention (DLP CI 3000) working in tandem with F5 to apply policies on decrypted traffic
  - CNS-SOC providing SIEM, Intrusion Detection, Behavioral Monitoring (RSPAN,Netflow), Vulnerability Scanning
  - Asset list includes Catalyst 3850, and C2960, DLP 3000, F5 i4800, Firepower FPR2140, Virtual FMC, ISE SNS-3515, UCS 220, WLC 5520, AP 3802
- Wireless upgrade WLC CT7510 on multiple DCs, and multiple SSO clusters of WLCs, with 800+ access points
- Design the order of shutdown and power up of a large campus composed of ISE, ASA, WLC, APs, Switches
- Design and implement the migration of LAN campus from Catalyst 3750 into catalyst 3850
- Design and build VTI on ISR4431, leverage it for routing via OSPF. Provide local Internet breakout, and protect via ZBF
- Design and implement GETVPN
- Design and implement the migration from one ISP to another ISP on ASA firewalls,
  - The ISPs are providing different public IP addresses
  - Inventory, plan and migrate services from one ISP to the new one.
  - Prepare and implement new configuration during maintenance window: Routing, NAT, Access Lists, DNS entries, Remote Access VPN, Site-to-Site VPN

- Design and implement upgrade software and hardware on Nexus7K with extensions Nexus 2K
  - Upgrade software (kickstart, system and EPLD) to 6.2(16) :
  - Upgrade hardware to 10G I/O Modules, Fabric 2, Supervisor 2,
  - Rebuild SSO between Supervisors, and rebuild VPCs between Nexus7K from the same Data Center
  - Operation on 4x Nexus7K switches located in 2x Data Centers
- Design and implement the replacement of large Meraki stacked Switches MS350 with minimum interruption.
- Design and implement the LAN migration of a large campus composed of Catalyst 6509 VSS and Catalyst 3560 access into a collapse distribution and core based on Catalyst 9407R in VSS and multiple stacks of Catalyst 9300 switches for access.
- Design and implement the migration of Wi-Fi based on WLC 4404 and APs LAP1262N into a Wi-Fi based on AP3802I
  - Using Mobility Express (ME) so that one AP becomes the controller of other APs.
  - If the current AP controller fails, another AP automatically takes the role of controller.
  - Leverage Multi-Gigabit Ethernet feature from Catalyst 9300 switch to have 5Gbit/s uplinks from each AP.
- Design and implement Wireless Refresh towards a pair of WLC5520 running in HA/SSO, 2x ISE VMs, 2x Prime VMs, and more than 400+ APs from different models 1815, 1852, 2802i, 2802eO, 2802eP, 2802eD.
- Design and implement Wi-Fi based on Office Extend AP (OEAP)
- Design and implement the WAN migration to Meraki for high-end world-wide retail companies
  - Meraki MX HUBs in multiple Data Centers and the MX Spokes in the stores, all connected via IPSec over Internet
  - Leveraging Meraki Templates to streamline configuration
  - Automating advanced configuration via Meraki Rest API
  - Supervising deployment in more than 400+ stores worldwide via 3rd party company (ISG) as smart hand
- Design, plan and implement the replacement of ASA cluster with minimum impact.
  - Prepare and migrate the configuration appropriately: NAT, VPN (Remote Access, Site-to-Site), ACLs, SSL Keys
- Design and implement world-wide highly resilient Wireless environment:
  - The asset list includes: multiple WLC 5520 in SSO, multiple ISE SNS-3515, multiple AP2802I
  - Guest SSID: PSK changed each 7 days and published in an portal internal to the company
    - This process is automatic by having scheduled task executing a python script interacting with ISE API.
  - Staff SSID: PSK+MAB
    - The PSK is automatically changed each 7 days via script and published on an internal portal
    - MAB is via ISE Device Registration Portal which is accessible by authorized administrators.
  - Corporate SSID: 802.1x EAP-TLS and computer authentication via AD
    - ISE certificates signed by company PKI
    - ISE linked to Corporate Active Directory
- Design and implement the LAN migration of 3x large campuses, each composed of Catalyst 6509 VSS and C3750 access switches. It is migrated into Catalyst 6807 core switches in VSS and Catalyst 9300 on access layer.

02/2017 – 08/2017 (6 months)	**Senior Network Engineer** at **GM Financial**	***High Wycombe***

- Build and engineer the LAN and WAN for the world-wide corporate network
- Design and deploy LAN and WAN devices refresh
- Design and deploy LAN and WAN In-sourcing from AT&T
- Design and implement WAN MPLS migration from AT&T to Verizon
- Design and roll out of Wifi Guest and Wifi Corporate based on Cisco AP, WLC, Prime and ISE

09/2012 – 01/2017 (4 years 5 months)	**Network Engineer** at **LACOSTE**	***Troyes***

- Build, implement and operations of Lacoste's world wide Network infrastructure, composed 95% of Cisco devices
- Design and architecture improvement. Project engineering roll out.
- Monitoring, script automation, troubleshooting, device deployment, technical documentation and coordinate remote IT team :
  - LAN, WLAN, WAN, DC, Security, VPN (Site-to-Site and Remote Access), Visio Conference
  - More than 400 sites: Stores, Offices, Warehouses, Factories, Datacenters
  - More than 1200 network devices (95% Cisco) : Routers, Switches, Access Points, Wifi Controllers…
  - More than 20 local IT collaborators at remote branches.
- Design and implementation of Wireless network with WLC in SSO, ISE for AAA,
  - Corporate Wi-Fi with WPA2-Enterprise AES PEAP. Authorization based on specific Active Directory groups.
  - Guest Wi-Fi encapsulated in CAPWAP until the DC, and dropped in a DMZ behind ASA firewalls dedicated context
  - Wi-Fi composed of 6x WLC 5508 in 3x SSO clusters. More than 600+ APs, mainly of models 2602I and 2702I
  - Wi-Fi covering world-wide network: Offices, Factories, Warehouses and Stores
- Design and implementation of various LAN environments for Offices, Factories, Warehouses and Stores
  - Large campus with Distribution and Access based on 2960, 3560, 3750
  - Medium and small LAN built of 2960
  - Spanning-Tree hardening via Root-Guard and BPDU-Guard with Errdisable
  - Security Hardening with Port-Security
- Migration from ACS to ISE for VPN Remote Access, Wireless, TACACS for network devices, Radius for Linux servers
- Design and implementation of ASA firewalls:
  - Active/Passive fail-over, Multi-context for Web, Wi-Fi Guest, various other DMZs
  - Remote-Access VPN via Anyconnect, Site-to-Site VPN IPSEC/IKEv1with partners.

- Management through ASDM for individual ASA and CSM for the world-wide estate of ASA devices
- Design and implementation of Branches WAN:
  - MPLS for IP Telephony and other critical applications,
  - DMVPN version 1 over Internet for less critical applications,
  - VTI for occasional inter-branches direct communication because DMVPN was version 1
  - Internet local breakout for bandwidth heavy Internet browsing
  - VRFs to isolate specific networks
  - WAN Infrastructure composed of ISR 2911 important sites and ISR 891 for smaller sites
- Design and implement the migration of remote branches from IPSec on PIX515 into DMVPN on ISR 2911.
- Design and implement of dynamic routing
  - BGP for connection with ISPs (MPLS and Internet),
  - EIGRP for all internal routing
  - OSPF occasionally with partners not supporting EIGRP
- Design and implement PBR to statically steer traffic on specific path for selected applications
- Design and implement PfR to dynamically reroute traffic between the different WAN egress point based on performances.
- Design and implement the Zone Based Firewall (ZBF) on branches and its configuration via CSM
- Design and implementation solution for direct connection to major CDNs such as Google, Amazon, Microsoft
  - Solution selected was FranceIX, the leading Internet Exchange in France
  - Registration of public network and AS number to RIPE
  - Routing of public network into FranceIX via BGP
- Design and implement the migration from private cloud into Microsoft Azure
- Design the adoption of IPv6 and the migration from IPv4.
- Design the adoption of IP Multicast for applications requiring it, such as music systems in the store, etc.
- Review, design and implement End-to-End QoS on world wide scale,
  - On 4 continents, 3 MPLS clouds from 3 ISPs,
  - Harmonized on 6 DMVPN networks,
  - Layer 2 QoS and marking from the LAN switches
- Design and implement Data Centre
  - Core switch Nexus 5K extended with Nexus 2K
  - Distribution and Core routing based on ASR1001X, ISR 3825, ISR 3925
- Design and Implement WAN optimization via Cisco WAAS
  - Module inside branches routers ISR 2911
  - Virtual Appliances in Datacenters
  - Management of the whole estate via WAAS Central Manager (WAE)
  - Redirection of traffic to WAAS via ACLs and WCCP
  - Decryption of SSL on the fly for major CDNs providers
- Study various IPAM solutions (Efficient IP, Infoblox, Gestio IP,) and deploy the most appropriate for the company.

01/2011 – 08/2012 (1,5 years)	**Network and System Engineer** at **INRIA**	***Paris***

- Network engineer at the INRIA Saclay IT team;
  - Configuration and deployment of Wireless network.
    - *Lightweight Cisco AP, NCS as Wireless Controller, UCOPIA for Authentication and captive portal*;
  - Migration of a core switch VSS made of a 2x Cisco 6509 from one campus to another without network service interruption, leveraging the MAN (Metropolitan Area Network)
- Network and system engineer in the INRIA project named ALADDIN-Grid'5000;
  - Design, deployment, management and monitoring of a 480 cores cluster
  - Managing the cluster made of 32 LAN switches and 8 SAN switches
  - Automation of networks maps/diagrams, automation of network configuration as well as network monitoring.
    - Puppet, Chef, Capistrano, TCL/TK, Rancid, Ruby, Python, Nagios, Munin, Cacti, Network Weathermap,

09/2008 – 08/2009 (12 months)	**Network and Systems Technician** at **MEDIATVCOM**	***Paris***

- Network administration at the daily basis : *Cisco Router, VLAN, VPN, Firewall, FTP, DYNDNS, asterisk (IPBX)*;
- Integration of the company product *VidIP* into customers network infrastructure:
  - *VidIP* is an equipment which transports professional quality live video over IP network, mostly over Internet;
  - Collaboration with customer's network engineers to design the best network architecture for *VidIP*;
- Remote support and maintenance of *VidIP* on customers sites : *SSH, tcpdump, telnet, NAT, port forwarding, VLC*;

LANGUAGES

French and English : Native.

Japanese : Conversational.

INTERESTS

Football, **Basketball**, **Tennis** and **Ski** with friends for fun and to keep in shape.

Cinema, especially Science-Fiction movies. I particularly enjoy movies made by Steven Spielberg.