

Denzel Nguyen

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OBJECTIVE: Seeking for a regular fulltime Senior Network Engineer position in Greater San Diego.

SUMMARY:

- Over 16 year experience of designing and implementing of medium to large scale networks and IT infrastructure.
- Hands on routing, switching, VoIP, security and wireless.
- Hands on various routing protocols including EIGRP, OSPF and BGP.
- Hands on various VPN solutions including IPsec VPN, DMVPN, SSL VPN and MPLS VPN.
- Hands on various firewall solutions including routed mode and transparent mode.
- Hands on various VoIP solutions including Call Manager, Call Manager express, H.323, MGCP and SIP gateways, Cisco Unified Border Element (CUBE).
- Hands on Policy base-routing, QoS, Multicast, Host Standby router protocol (HSRP), Virtual Router Redundancy Protocol (VRRP), Gateway Load Balancing Protocol (GLBP), Virtual Switch System (VSS), Cluster Switch System (CSS), virtual routing and forwarding (VRF), Link Aggregation Control Protocol (LACP), Port aggregation protocol (PAgP), NBAR, Virtual context, Virtual domains (VDOMs) SNMP, NTP, DHCP, VTP, NAT, TACAC+, RADIUS, VMWARE, Microsoft Visio.
- Experience AWS, Azure, Pivotal and Skytap clouds portals.
- Knowledge of Linux.
- Industry certifications - CCNP Service Provider (Jan 2013) Cisco ASA Specialist (December 2010) CCNP Voice (October 2009) Cisco PIX Firewall Specialist (June 2004) CCNP Routing and Switching (March 2004) Cisco VPN Specialist (January 2004) Microsoft Certified System Engineer (February 2002)
- Experience working in multiple technologies and multi-vendor environments
 - Cisco routers, switches, wireless controllers, ASA, CUCM, Cisco ACS
 - Juniper SRX. HP and Huawei Switches. Fortinet and Palo Alto firewall, Dell Chassis.
 - F5 and Citrix Load Balancers. Basic irule.
 - VMware, Silverpeak WAN optimizer
 - Solarwinds, Cacti, Tivoli, Arbor network and others for monitoring tools

CAREER EXPERIENCE:

Senior Network Engineer - October 2018 to Present

Petco, San Diego, CA 92127

Current project: Migrate network equipment from old nexus 7K to new nexus 9K

- Connected new Nexus 9504 Core switches to existing Nexus 7K.
- Connected Nexus 93108TC-EX and 93180YC-EX to Nexus 9504 Core switches as layer 2 switches for both copper and fiber connections.
- Migrated MPLS routers, Cisco ASA, Palo Alto firewall, checkpoint firewall to new 9K core switches.
- Migrated IPsec tunnels that were terminated on Cisco routers to Checkpoint firewall.
- Replaced old Dell switches with new Dell Force 10 Switches on Dell 1000E chassis
- Upgrade 3900 F5 LTM images from 10.2.3 to 11.5 then to 12.1.3 and copy config file to new BIG-IP i7800
- Worked with IANA and Finance department for a new public IP address block.
- Worked with Centurylink and AT&T for new Internet circuits
- Installed a pair of cisco ASR for border routers.
- Updated network diagrams using Microsoft Visio.

IT Consultant - June 2017 - October 2018

NetPolarity@GAP, Pleasanton, CA

Responsibilities: Assist GAP System Engineers & developers to build private clouds.

- Established and manage IPsec tunnels between GAP network and vendors, clouds.
- Established and manage MPLS between GAP network and Azure cloud.
- Created and manage Firewall policies (Palo Alto & Juniper SRX)

- Manage F5 LTM & GTL including Wide IP, VIPs, pools, members and Irules
- Migrated F5 VIPs

Lead Network & Security Engineer - October 2015 – May 2017

Friend Finder Network INC, Campbell, CA

Responsibilities: Manage 1 datacenter, 1 corporate office and 2 remote offices.

Project – Datacenter consolidated. FFN used to have 2 datacenters (Equinix-Sunnyvale & Centurylink-Santa Clara) but the lease for Equinix was expired. Tasks below were performed in Santa Clara datacenter.

- Moved Network equipment from Equinix colocation in Sunnyvale to Centurylink colocation in Santa Clara
- Redesign internet tier from single home to multihomed using BGP (Cisco 7609)
- Inserted Fortigate 5144C between IPS routers and Internet routers as transparent firewall.
- Installed and configured Cisco (C6509) Switches as additional Core switches.
- Installed and configured Cisco ASA as VPN termination for both Remote access and IPSec.
- Established IPSec tunnel to AWS and moved services servers to AWS.

Project – Datacenter redesigned.

- Replaced Internet routers from Cisco 7609 to Cisco ASR 1006-X.
- Install and configured Internap MIRO controller working with internet routers for outbound routes optimization.
- Moved Fortigate 5144C behind Internet routers and converted to layer 3 firewall (routed mode)
- Replaced Core switches from Cisco 6509 to Cisco Nexus 7010.
- Installed Juniper firewall SRX3400 for East-West traffic.
- Replaced VPN termination devices from Cisco ASA 5520 to ASA 5515-X.
- Replaced load balancer from Citrix Netscaler MPX15000 to SDX 14030.
- Replaced Servers from Dell chassis M1000E to Huawei 9000E.
- Installed and configured HP switches, Nexgen storage device to provide additional storage for database.
- Configure Linux server as TACACS server for authentication.

Project – Out of band network designed.

- Installed and configured Cisco ASA as Firewall.
- Installed Cisco routers as console server.
- Installed Cisco switch for as management switch.
- Installed Dell servers as management hosts.

Project – Offices Redesign:

- Replaced Cisco end of life ASA with Fortigate 500D.
- Replaced Cisco switches with Huawei switches.
- Worked with Meraki team and vendor to install access points.
- Add additional Internet circuit to separate internet access and IPSec VPN.

Project – Monitoring:

- Installed Solarwinds to monitor network performance
- Installed ExtraHop devices for network troubleshooting tool.

Senior Network Engineer - April 2014 to October 2015

Bare Escentuals, San Francisco, CA

Responsibilities: Manage 1 datacenter, 1 corporate office and 3 remote offices, 1 distribution center and over 200 plus retail stores.

Project – New offices:

- Installed and configured Cisco ASR 1002 router as internet router.
- Installed and configured Cisco ASA 5515-X as firewall.
- Ran heat map and worked with vendor to install access points.
- Installed and configured Cisco ASA AIR-CT2504 as Wireless controller.
- Installed Cisco 2600 stackable switches as user switches.
- Installed Silver Peak WAN optimizer.
- Installed and configured Cisco ASR 3900 router as MPLS router. Use MPLS circuit as backup Internet access.
- Ensure Data, voice, video and wireless working properly

Project – Distribution center redesigned.

- Replaced end of life switches.
- Removed wireless controllers and worked with Aerohive Engineers for wireless solution
- Worked with vendors to install robots, laser barcode scanners and ensure shipping area operate smoothly.

Project – Retail stores:

- Installed and configured Cisco 3900 routers as DMVPN termination in datacenter.
- Established IPsec tunnels from retail stores to DMVPN termination as primary path.
- Installed and configured Cisco 2900 routers with PRI circuit as dial backup termination in datacenter.
- Installed FXO and 3com modem into retail store routers and configure dial-up for backup path.
- Coordinated with Aerohive Engineers to rollout wireless solution for all retail stores.

Project – Payment Card Industry (PCI)

- Segmented billing servers behind Juniper SRX firewall.
- Coordinated with Chase bank Engineer to connect billing servers segment to Chase bank network through MPLS.
- Coordinated with Sungard Engineer to connect billing servers segment to Sungard network through IPsec VPN for vulnerability scanning.
- Secure PCI/billing servers segment zone from Vendors access by implement Cisco ACS downloadable ACLs.

Project – Remote access VPN

- SSLv3 has been vulnerable (POODLE attack) but Cisco ASA did not support TLSv2. Replaced Cisco ASA with Juniper MAG-2600 and rolled out remote access VPN.

Project – Backup:

- Installed additional internet circuit to internet router and established IPsec VPN tunnel to Asure and scheduled data backup.

Project – Guestnet.

- Installed additional wireless controllers and configured new wireless controllers working with existing ones for guestnet solution (WLCs Anchor/sandwich setup)

Projects- Networks infrastructure Consolidation (Shiseido acquired Bare Escentuals and Zotos)

Lead a network team to integrate Bare Escentuals, Shiseido and Zotos networks infrastructure together.

- Connected the 3 networks together through MPLS and reconfigured routing protocol (BGP & OSPF)
- Converted internet access to centralized model from distributed model to save monthly cost and enhance internet access and security.

Technical Consultant - June 2013 to January 2014

Insight Global@State Compensation Insurance Fund, Pleasanton, CA

Project: Home offices.

- Installed and configured Cisco routers as DMVPN termination.
- Coordinated with vendor to installed Cisco 800 series at agent's home.
- Established IPsec tunnels between DMVPN termination and agent's home.

Project: Clouds for developer Engineers.

- Established IPsec VPN to AWS.
- Used AWS portal to bring up virtual ASA firewall, F5 load balancer and servers.

Project: Load balancer evaluation.

- Installed, configured and tested A10, Citrix NetScaler and F5 load balancers for evaluation.
- Then provides feedback to SCIF management for selecting right devices.

Technical Consultant - February 2012 to June 2013

Maxonic@Walmart, San Bruno, CA

Project: Office Relocation (From Brisbane to San Bruno)

- Coordinated with Walmart Network Engineers to design and implement new network in San Bruno campus that including Internet routers, Firewalls, VPN, CUCM, Cisco CUBE, WCL, core switches and users switches.
- Moved network equipment from Brisbane campus to San Bruno campus and ensured they all are working properly.

Project: Office network integration:

- Replace existing vudu office network equipment with new equipment then connect vudu office network to Walmart network through MPLS and IPsec VPN.

Projects: remote offices:

- Redesigned several Walmart branch offices.

Technical Consultant - October 2011 to February 2012

Taos Mountain@Apple, Cupertino, CA

Resolved trouble tickets that were escalated that include network issues,

Technical Consultant - July 2011 to October 2011

Taos Mountain@Hi5network, San Francisco, CA

Project: Data Center consolidation: from Equinix Colocation in Sunnyvale to Digital Realty in Oakland.

- Redesign Internet tier from single home to multi-home.
- Moved network devices from Equinix Colocation and integrated them to Digital Realty Colocation
- Inserted FWSM into Cisco 7609 and configured it as Firewall.

Technical Consultant - March 2011 to July 2011

At-tech@Openwave, Redwood City, CA

Project: VoIP

- Migrated voice configurations from Cisco end of support VGs and IADs to new Cisco IOS routers.
- Implement Cisco CUBE and trunk to Sprint and routed off-net calls to the SIP trunk. Then terminate PRI circuits to save monthly cost.

Projects: IPsec VPN.

- Migrated Netscaler VPN configuration to Cisco ASA.
- Migrated Check Point firewall to Cisco ASA.
- Configured IPsec VPN between corporate network and Partners/Vendors
- Configure remote access VPN for vendors to access to corporate network
- Configure Downloadable ACLs on Cisco ACS to only allow Vendor remote VPN to access only particular subnet or host

Technical Consultant - September 2010 to February 2011

QANALYSTS@CISCO SYSTEMS San Jose, CA

Project: Cisco residential Telepresence:

Build Cisco's Telepresence network in lab environment that simulating an ISP network which connects to home users Internet for testing residential Telepresence products.

- Configure Cisco ASR routers as Internet router.
- Configure Cisco ASA as firewall.
- Configure Cisco Nexus 7000 routers as Core switches.
- Configure Cisco routers with T1/E1, FXS and FXO WICs and AS 5400 as simulating PSTN network.
- Configure Cisco GRS as Cisco Unified Border Element.
- Configure Cisco CE 4700 as load balancer.
- Configure Cisco 800 routers as to simulate home DSL router.
- Configure Cisco 3900 router as H.323 voice gateway and gatekeeper and interconnect with CUCM.
- Connect Tandberg Video Communication Server, Tandberg Video Communication clients, Cisco Telepresence, Cisco IP phones to simulated network for test engineers and software developers to improve better products.
- Support test engineers and software developers on several tasks to improve Cisco Telepresence products.

Technical Consultant - June 2009 to August 2010

CLEAR-COM, Alameda CA

Projects: Voice over intercom, VoIP and VPN.

- Coordinated with Clear-com engineers to implement Voice over intercom.
- Support both Clear-com and vendor Engineers on various tasks to improve intercom products.
- Configure IPsec VPN between Clear-com office in America and vendor in Thailand.
- Implemented VoIP solution with Cisco CUCM Express for Corporate office.

Implementation Network Engineer - December 2006 to January 2009

IBM/INS now BT @ CISCO SYSTEMS San Jose, CA

Projects: New remote offices, relocation, upgrade and Network infrastructure integration.

- Audited Cisco existing data centers, campus and remote offices networks to evaluate network

infrastructures.

- Redesigned and implemented network infrastructure if it does not meet Cisco designed standard
- Designed and implemented network infrastructure for new datacenters and offices.
- Integrated acquired companies network to Cisco network.
- Moved network devices from old offices to new offices and ensured data, voice, video and wireless working properly
- Tasks includes:
 - o Audited existing networks using Microsoft Visio, CDP, ARP, Mac-address tables.
 - o Coordinated with ISP for new circuits.
 - o Generated wireless heat map base on floor map.
 - o Coordinated with vendor to install access points.
 - o Configured network devices.
 - o Ensured data, voice, video and wireless working properly after implementation.

Cisco IOS Security Engineer - February 2006 to December 2006

QANALYSTS @ CISCO SYSTEMS, San Jose, CA

Project: Built a Cisco security test topologies in Cisco lab for testing Cisco security features on Cisco integrated routers to improve Cisco products.

- Configure IPSec VPN, zone base firewall, NAT and load IPS signatures on Cisco integrated routers.
- Interconnect Cisco integrated routers with Cisco Security Monitoring, Analysis, and Response System, Cisco Secure ACS, Cisco Security Manager, Microsoft Certificate Server and Avalanche traffic generator.
- Generate traffic from Avalanche traffic generator to send through Cisco routers to test VPN, NAT, firewall and IPS signatures performance and functionalities.
- Collect information and document test results.
- Prepare documentations for management and developer Engineers for customer presentation.

Network Engineer - August 2005 to February 2006

Computer resource Solutions @ SBC Internet, San Ramon CA

- Resolve technical issues that involves between SBC edge routers and customers premise equipment.
- Provision new BGP session with new customer router.
- Coordinate with on field Technician to troubleshoot circuit's issues
- Assist enterprise customers in using BGP attributes to manipulate routes.
- Assist small business customers in using NAT/PAT for internet access.

Network support Engineer - July 2002 to August 2005

Solectron, Austin, Texas

Resolve trouble tickets that include network devices, lab devices, test systems.

- Install new switches and interconnect test systems for production testers.
- Replace failed hardware include switches modules.
- Monitor performance and functionality of the network equipment and troubleshoot network issues.