Pawan Bajpai

Sr. Security Engineer/ Architect
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PROFESSIONAL SUMMARY

- A seasoned Network Security Professional with over 13 years of experience in maintenance, troubleshooting LAN environments, and network design implementations.
- Experience in configuring IPSEC Site-to-Site VPN and Client based VPN based on the requirement.
- Configuring IPSEC of Policy-based Tunnel and Route-based Tunnel with multiple business partner.
- Firewall Management, Deploy, Design and Install (Palo Alto, Cisco ASA)
- Strong experience in configuration and troubleshooting of routing protocols PPP, RIP, EIGRP, BGP, OSPF, HSRP, IPX, IP, IGMP, QoS, 802.1q and SNMP with excellent documentation skills
- Expertise on Cisco Datacenter Switches such as Nexus 6500, 7000.
- Experience in implementing site-to-site and remote access VPN Technologies using GRE, IPSEC & MPLS.
- Hands on experience in configuring Checkpoint R77.10 R77.30, Cisco Catalyst 2960, 3750, 4500, 6500 and Nexus 3000, 5000, 6000, 7000 series switches and Cisco 2600, 2800, 3600, 3800, 7200, 7600 series routers, Load Balancers & Cisco Firewalls.
- Experience in implementation, support and troubleshooting of VLAN's including operational knowledge of spanning tree protocol (STP), VLAN trunking, inter VLAN routing and ISL/802.1q.
- Extensively exposed to troubleshooting, maintaining devices and migration of technology.
- Experience on Monitoring and Management tools such as HP Open view, Splunk, TCP dump, Solar Winds and Wireshark/Ethereal, Cisco Prime, Net Flow, Net scot, Sniffer, Riverbed.
- Experience with convert Checkpoint VPN rules over to the Cisco ASA solution. Migration with both Checkpoint and Cisco ASA VPN.
- Understanding of Python scripts for system automation, monitoring and security reporting. Maintain existing Perl scripts and migration existing Perl scripts to Python.
- Extensive working experience and knowledge of routing protocols like RIP, OSPF, IGRP, EIGRP and BGP.
- Worked on Cisco ASDM for configuring VPN on Cisco ASA Firewall.
- Working experience with Natting techniques on firewalls such as Cisco PIX, Cisco ASA Appliance..

Certifications:

      Palo Alto Networks Certified Network Security Engineer (PCNSE)

Cisco certified Network Professional (CCNP)
Cisco Certified network Associate (CCNA)
Juniper Certified Network Associate

Technical Skills:

Routers:	Juniper MX80, MX240, MX 480, MX960, ACX 1000, M120
	Cisco 2620, 2901, 3925, 3945E, 7201, 7613
Switches:	Juniper EX2200, EX2500
	Cisco Catalyst 2232, 2960, 3560, 4507R+E, 5596, 6509-E, 7009
	Nexus 2232, 5596, 7009
Routing:	ISIS, OSPF, EIGRP, BGP, RIP, PBR, Route Filtering, Redistribution, Summarization, Static Routing , GSR and CRS1
Switching:	LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels, MPLS, Transparent Bridging
Network Security:	Cisco ASA 5540, Juniper SRX, ACL, IPSEC, Palo Alto 5000s and 3000s
Load Balancer:	F5 Networks (Big-IP) LTM 6400, 1600
LAN:	Ethernet, Fast Ethernet, Gigabit Ethernet
WAN:	PPP, HDLC, Channelized links (E1/T1/E3/T3), Fiber Optic Circuits, Frame Relay.

Operating Systems: Cisco Firewall IOS 9.x, 8.x, 7.x including 8.0, 8.2, 8.4 and 9.0, 9.1 on ASA Platform, 8.6 on ASA 5585x series hardware
Checkpoint Firewall Appliance based 12000 series and 4000 series.
AAA Architecture: TACACS+, RADIUS, Cisco ACS
Network Management: Wireshark, SNMP, Ethereal, EMC Smarts
Operating Systems: Windows (98, ME, 2000, XP, Server 2003/2008, Vista, Windows 7)
Tools used: Python scripting, Shell Scripting

Work Experience:

Client: Ally Financial - Detroit, MI   Sr. Security Network Engineer |||,   September 2018 - Present

• Implementation of MPLS VPN Networks.
• Created node, Pool, Virtual Server (VIP), ssl certificate, on F5 LB.
• Checkpoint firewalls R76,R77smartdashboard/CMA buildout for 30 firewalls.
• Configure rules/nat via smartdashboard.
• Checkpoint traffic tracker and isolate issues.
• Performing change management (CM) role on all network devices. Implement network change requests based on CM processes
• Worked on commissioning and decommissioning of the MPLS circuits for various field offices.
• Managed VPN Sites (Checkpoint).Site to Site VPNs
• Upgradation, restore and backup of devices like Cisco ASA, Paloalto Firewall and F5 Load Balancer(LTM) Configuring Virtual Chassis for Firewalls SRX-240.
• Strong knowledge on networking concepts like TCP/IP, Routing and Switching
• Design, Implement & troubleshooting of Juniper Firewalls, Checkpoint Firewalls and Checkpoint Firewalls.
• Implementation and troubleshooting on Cisco 5500 Series ASA, Paloalto Firewalls and F5 Load Balancer.

- Using Splunk and other tools for monitoring.

Client: E-Plus – Security Engineer/Remote   **March 2018 - August 2018**

- Policy Reviewing, Audit and cleanup of the un-used rule on the firewall using Tufin and Splunk.
- Configure Sensor Firepower IPS 8300 v5.4, Integrate all IPS to Firepower Defense Center 4300 to
- manage all Sensors centrally
- Also managed and worked on Palo Alto , checkpoint, and Juniper SRX devices.
- Designed security policies on Palo Alto network firewall for controlling what traffic needs to be allowed or blocked based on customer requirements.
- Worked on Symantec Bluecoat Proxy SG S400 and S200 - Creating policies and managing through Management center
- Did the migration from Cisco ACE load balancer to F5 Load Balancer.
- Established VPN tunnels between Cisco routers and Cisco Firewalls and Palo Alto Firewalls.
- Worked with the installation of Palo Alto firewall, migrated with a team from predominantly checkpoint environment to Palo Alto global solution.

Client: TEKsystems/ATOS – Walt Disney   Celebration. FL   **December 2015 – February 2018**

Role: Sr. Security Engineer/Lead.

- SME for Walt Disney Security and responsible for their Network Security/Firewalls.
- Primary Role includes maintaining and monitoring the security of the Walt Disney through various security tools such as Checkpoint and Cisco ASA Firewalls and IPS/IDS instruments.
- Managing configuration and troubleshooting one or more Adaptive Security Appliance (ASA) with FirePOWER Services.
- Managed, operated and analyzed results from Sourcefire detection systems
- Deploying and decommission of VLANs on core ASR 9K, Nexus 9K, 7K, 5K and its downstream devices and also configure 2k, 3k,7k series Routers
- Worked on Bluecoat SG600 Proxy to allow the URL/domain and troubleshooting for Walt Disney Network.
- Transformed traditional environment to virtualized environments with AWS-EC2.
- Installed and maintained Cisco and F5 Load Balancer and documentation
- Worked with Cisco ASA 5500-X with Firepower services, Firepower 4100
- Primary responsibility is also to maintain, monitor and make production changes on R77.30 Checkpoint Firewall.
- Perform testing of all SourceFire IPS/NGFW appliances and open source snort.
- Worked on maintaining carrier grade features to SDN control plane with ONOS Distributed Core, thus providing scalability, high availability and sharp performance
- Experience with network based F5 Load balancers with software module GTM & Checkpoint
- Experience with connectivity of Cisco Networking Equipment with F5 Load Balancer
- Experience with GTM F5 component to provide high availability with providing services across data centers.
- Configuring Cisco Firepower ASA 5512-x IPS with Firesight Management

- Managed successful delivery of massive security response portfolio including Splunk and Cisco ISE.
- Firewall deployment, rules migrations, firewall administration and converting existing rule based onto new Checkpoint and Palo Alto Next-Generation Firewall platforms.
- Deployed/implemented SRX 5800 and SRX3600
- Implementing and configuring F5 LTM's for VIP's and Virtual servers as per application and business requirements.
- Migrated ASA firewalls to Palo Alto Network firewalls
- Implemented Zone Based Firewalling and Security Rules on the Palo Alto Firewall.
- Build Site to Site IPsec based VPN Tunnels between various client and business partner sites
- Manage over 40 checkpoint Firewalls split through multiple CMA's and administer using provider-1.
- Administer and support Juniper Firewalls Using NSM (Net screen and ISG firewalls).
- Actively use, smart view tracker, and Checkpoint CLI (to security gateways) for troubleshooting.

Client: TEKsystems/WWT - Symantec   **August 2015 – November 2015**

Role: Sr. Security Engineer/Lead.

- Hired for short term project with Symantec as SME to complete client assignments on tight schedule.
- Design, Implement & troubleshooting of ASA, Palo Alto Firewalls and Checkpoint Firewalls.
- Manage F5 Load balancer to configure Virtual servers, SSL Encryption/Decryption, compression Profile, Pools, Nodes, NAT.
- Worked on Cisco ASDM for configuring VPN on Cisco ASA Firewall.
- Automated the cloud deployment using AWS, AWS CLI, Python (pip, boto, boto3) and AWS cloud formation templates.
- Create packet captures and snort rules to test SourceFire sensor operation and verification of traffic.
- Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks
- Experience with convert Checkpoint VPN rules over to the Juniper SRX solution. Migration with both Checkpoint and SRX VPN experience.
- Managing configuration and troubleshooting on Blue Coat proxy, Failover between proxies.
- Cisco Firewall IOS 9.x, 8.x, 7.x including 8.0, 8.2, 8.4 and 9.0, 9.1 on ASA Platform, 8.6 on ASA 5585x series hardware.
- Exposure to wild fire feature of Palo Alto.

Client: Gemalto – Data Center   **Jan 2011 – June 2015**

Role: Sr. Network Engineer.
- Design, implement and administer IPv4/IPv6 enterprise network infrastructure utilizing Juniper routers.

- Responsible for supporting Palo Alto, ASA firewalls and Cisco Anyconnect VPN firewalls, utilizing Panorama centralized management and Cisco ASDM.
- Built several Software Defined Networking (SDN) systems with Pica8 SDN switches and Controllers including ONOS.
- Co-ordinated with global Security Management teams and support teams as required and completed Palo Alto and Checkpoint Firewall rule add, modification, and delete.
- Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMware Vm's as required in the environment.
- Installed Juniper Firewalls, ISS /IPS, Snort intrusion detection with configurations.
- Staging of CRS-8/16, ASR9K/1K, Juniper/Cisco Firewalls, CMTS, Cisco 10K etc.
- Actively involved in Switching technology Administration including creating and managing VLANS, Port security- 802.1x, Trunking 802.1Q, RPVST+, Inter-VLAN routing, and LAN security on Cisco Catalyst Switches 4507R+E, 6509-E and Cisco Nexus Switches 2232, 5596, 7009.
- Providing daily network support for national wide area network consisting of MPLS, VPN and point-to point site.
- Implemented Site-to Site IPSecVPN between two branch offices and also SSL VPN for user's connecting from various locations.
- Performed Network Security Assessment and implemented security improvements such as network filtering, SSH, AAA, SNMP access lists, VTY access lists, EIGRP MD5 authentication, and HSRP authentication
- Established test environment for prototype PRL Project comprises of Solaris 2.5
- Implemented antivirus and web filtering on Juniper SRX 240 at the web server
- Implementation and Configuration (Profiles, iRules) of F5 Big-IP LTM-6400 load balancers

Client: Fiserv , Irving TX   **Jan 2010 – Nov 2010**
Role: Sr. Network Engineer

Responsibilities:

- Replaced aging Cisco VPN concentrator 3060 with Cisco ASA 5540 firewalls
- Has done the Configuration on BIG IP (F5) Load balancers and also monitored the Packet Flow in the Load balancers.
- Has a good experience working with the Trouble Tickets on F5 Load balancers.
- Switch experience includes Cisco Catalyst switches: CISCO 3750, 4500, 6500 series switches.
- Managing enterprise BGP setup by configuring and troubleshooting BGP related issues. My responsibility was also to add new BGP peers for remote branch offices and business partners.
- Scaling of IGP and BGP in the core.
- Administration of ASA firewalls in the DMZ and FWSM in the Server Farm to provide security and controlled/restricted access.
- Troubleshoot issues related to VLAN, VLAN Trunking, HSRP failovers, related issues.
- Configuration of NAT.
- Maintain effective communications with vendors, peers and clients in resolution of trouble-tickets, equipment RMAs, and support requests.
- Planning for upgrade of IOS on devices and performing the upgrade.
- Assisted in the architecture, evaluation and recommendations related to purchasing and installing hardware, software related to IP Networking.

Amazon, Seattle March 09-Jan'10.
Network Engineer

Responsibilities:

- Project lead to migrate/re-design 700+ customer connections (MPLS & Frame) out of retired data center to new Juniper M120.
- Configured network using routing protocols such as ISIS, RIP, OSPF, BGP and troubleshooting L2/L3 issues.
- Time to time upgrade network connectivity between branch office and regional office with multiple link paths and routers running HSRP, EIGRP in unequal cost load balancing to build resilient network.
- Design and implement Catalyst/ASA Firewall Service Module for various LAN's.
- Key contributions include troubleshooting of complex LAN/WAN infrastructure that include routing protocols EIGRP, OSPF & BGP.
- Configured Client VPN technologies including Cisco's VPN client via IPSEC.
- Configuring ACL to allow only authorized users to access the servers.
- Installation, Maintenance, Troubleshooting Local and Wide Areas Network (ISDN, Frame relay, DDR, NAT, DHCP, TCP/IP).
- Providing technical security proposals, detailed RFP responses, security presentation, installing and configuring ASA firewalls, VPN networks and redesigning customer security architectures.
- Used Enterasys Dragon, Snort/Sourcefire, ISS Site Protector and Symantec Manhunt to detect, assess and report network intrusions

Client: Kintetsu World Express, Ahmedabad India Oct 2008 –Feb 2009
Role: Network Engineer

Responsibilities:

- Maintenance and Troubleshooting of network connectivity problems using PING, Trace Route
- Implementing Routing and Switching using the following protocols; IS-ISOSPG, BGP on Juniper M series routers.
- Design, installation and troubleshooting networks with hand-on experience with OSPF, ISIS, BGP, VPLS, Multicast, VPN, MPLS, & Traffic engineering.
- Provided technical support for expansion of the existing network architecture to incorporate new users

- Network Securities with Juniper SRX firewalls.

- Involved in Local Area Network (LAN) design, troubleshooting, and maintenance as per company's requirements
- Network layer tasks included configuration of IP Addressing using FLSM, VLSM for all applications and servers throughout the company

- Involved in implementation of trunking using Dot1Q, and ISL on Cisco Catalyst Switches

- Configured STP for loop prevention on Cisco Catalyst Switches
- Configured VTP to manage VLAN database throughout the network for Inter-VLAN Routing
- Implemented various Switch Port Security features as per the company's policy
- Configured RIP, and EIGRP on 2901 and 3925 Cisco routers

Client: Gateway TechnoLabs., Ahmedabad, India   **Aug 2006 – Sep 2008**
Role: Jr. Juniper Network Engineer

Responsibilities:

- Juniper M20 and M10 configuration support for EBGP/IBGP and OSPF at backbone and core level.
- Juniper M20/Cisco 6509 rate-limiting/policing configuration and support in core/aggregator level provisioning for customers.
- Juniper M20 JUNOS and Cisco 6509 IOS upgrade maintenance and support.
- Resolved all computer related problems, monitored and maintained system functionality and reliability by identifying ways to prevent system failures
- Performed replacements of failed hardware and upgraded software
- Performed scheduled Virus Checks & Updates on all Servers & Desktops
- Configured VLANS to isolate different departments
- Upgraded IOS on Cisco Catalyst Switches 2960 and 3560 to fix problems related with IOS bugs
- Upgrades and backups of Cisco routers and switches configuration files to a TFTP server

Education:

    Bachelor of Engineering in Electronics and Communication.
    Master of Business Administration - 2006

Pawan Bajpai

- Irving, TX, US

Contact Information

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- 9737180193

Work History

Total Work Experience: 17 years

- **Lead Cyber Security Engineer Ally Financial**
  Sep 01, 2018

- **Security Engineer/Remote E-Plus**
  Mar 01, 2018

- **Sr. Security Engineer/Lead Teksystems/ATOS - Walt Disney**
  Dec 01, 2015

- **Sr. Security Engineer/Lead Teksystems/WWT - Symantec**
  Aug 01, 2015

- **Sr. Network Engineer Gemalto - Data Center**
  Jan 01, 2011

- **Sr. Network Engineer Fiserv**
  Jan 01, 2010

- **Network Engineer Amazon, Seattle**
  Mar 01, 2009

- **Network Engineer Kintetsu World Express, Ahmedabad India**
  Oct 01, 2008

- **Jr. Juniper Network Engineer Gateway Technolabs**
  Aug 01, 2006

Skills

- **cisco** - 17 years
- **configuration** - 17 years
- **juniper** - 15 years
- **asa** - 14 years
- **firewall** - 14 years
- **network** - 14 years
- **security** - 14 years
- **f5** - 13 years
- **network engineering** - 13 years
- **checkpoint** - 12 years
- **switches** - 12 years
- **monitoring** - 11 years
- **palo alto** - 11 years
- **troubleshooting** - 11 years
- **virtual machines** - 11 years
- **implementation** - 9 years
- **mpls vpn** - 9 years
- **routing** - 9 years
- **network security** - 7 years
- **access control** - 1 years
- **amazon web services** - 9 years
- **routers** - 12 years
- **vlan** - 10 years
- **sdn** - 7 years
- **mpls** - 9 years
- **sourcefire** - 9 years
- **snort** - 8 years
- **ipsec** - 2 years
- **nat** - 2 years
- **vpn** - 2 years
- **nsm** - 1 years
- **security analysis** - 1 years
- **tacacs+** - 1 years
- **tcpdump** - 1 years

Work Preferences

- Likely to Switch: False
- Willing to Relocate: True
- Travel Preference: 0%
- Preferred Location:
    - Baltimore, MD, US
    - Dallas, TX, US
- Work Authorization:
    - US
- Work Documents:
    - Have H1 Visa
- Security Clearance: False
- Third Party: True
- Employment Type:
    - Contract - Corp-to-Corp
    - Contract - Independent
    - Contract - W2
    - Contract to Hire - Corp-to-Corp
    - Contract to Hire - Independent
    - Contract to Hire - W2

Profile Sources

- linkedin: https://www.linkedin.com/in/pawan-bajpai-790176161
- Dice: https://www.dice.com/employer/talent/profile/895afd6737175942dc50eee4d90c9488