

# Sai Ch

## Network Engineer

Jersey City, NJ - Email me on Indeed: [indeed.com/r/Sai-Ch/dfa020d0c5a1f1f5](https://www.indeed.com/r/Sai-Ch/dfa020d0c5a1f1f5)

- Around 5 years hands on experience in designing, performing network analysis, troubleshooting, maintaining and supporting complex network systems.
- Worked on Cisco Routers 3800, 2800, 2900, [...] and Nexus 5K series, Cisco switches 4500, 2960, 3550 series and Cisco catalyst 6500.
- Extensive knowledge of Developing, Implementing Network test plans, protocols, and strategies
- In-depth knowledge of switching and routing protocols and telecom transmission mediums.
- Checkpoint Firewalls, Firemon, Appneta, VPN, Datacenter, PRTG, Syslogs, Cisco, Nexus, ACS, WAN Optimization, Riverbed Cascade, Riverbed Profiler, Net flow, Planning, Budgeting, Supervising, Setting Standards, Documenting MOP, Managing Multiple Projects.
- Hands on experience on Checkpoint smart dashboard and smart log with R77 Gaia
- Configured Security policies including NAT, PAT, Route-maps and Access Control Lists.
- Experience with Unicast and Multicast protocols like PIM, MSDP, Auto-RP, BSR, IGMP, IGMP Snooping, MLD, MLD snooping etc. is required
- Experience deploying BIG-IP F5LTM Load Balancers for load balancing and traffic management of business application
- Implemented Site-to-Site VPNs between ASA Firewall and Router
- Had knowledge in Router memory & IOS upgrade with SCP
- Familiar with network security, networking communication systems, application layer, and network services
- Comprehensive Knowledge about TCP/IP and OSI models.
- IPv4/6, Subnetting, VLSM, CIDR, troubleshoot TCP/IP problems; troubleshoot connectivity issues in multi-protocol Ethernet, Environment. Have in depth understanding of IPv6 Address
- Excellent in designing and configuring network infrastructure with multiple IP routing Protocols
- Experience with designing, deploying and troubleshooting LAN, WAN, Frame-Relay, Ether-channel,
- IP Routing Protocols (RIPV2, OSPF, EIGRP & BGP), ACL's, NAT, VLAN, STP, VTP, HSRP & GLBP
- Experienced in upgrading the network by translating protocol like EIGRP to OSPF.
- Extensive hands-on experience with complex routed LAN and WAN networks.
- Experience in troubleshooting NAT configurations, DNS/DHCP related issues.
- Working knowledge of Cisco ACE load balancers and F5 LTM load balancers
- Excellent knowledge with network packet capture tools like Wire Shark and monitoring tools like Solar Winds

### WORK EXPERIENCE

#### **Sr. Network Engineer**

Atos - Santa Ana, CA - August 2016 to June 2017

Analyzed and resolved network hardware and software problems in a timely and accurate fashion. Performed installation, configuration, maintenance, and troubleshooting of network and telecommunications equipment and software. Participated in daily error/event detection with performance monitoring and other maintenance activities involved in the data center.

#### Responsibilities:

- Responsible for designing and implementation of customer's network and Security infrastructure.

- Involved in complete LAN, WAN, Extranet redesign (including IP address planning, designing, installation, pre configuration of network equipment, testing, and maintenance) in both Campus and Branch networks. Experience working with MPLS Layer 3 VPN on ASR 9006 with IOS-XR
- Experience with converting Cisco 6500 IOS to Cisco Nexus NX-OS in the data center environment.
- Experience working with Nexus 7010, 5020, 2148, 2248 devices
- Experience with configuring Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000.
- Experience configuring VPC, VDC and ISSU Software upgrades on Cisco Nexus 7010
- Experience in Configuring, upgrading and verifying the NX-OS operation system
- Responsible for Cisco ASA firewall administration across our global networks
- Support customer with the configuration and maintenance of PIX and ASA firewall systems
- Configuring IPSEC VPN on SRX series firewalls
- Experience with configuring OTV between the data centers as a layer 2 extension.
- Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls as per the design.
- Provided Load Balancing towards access layer from core layer using F5 Network Load Balancers.
- Upgraded load balancers from Radware to F5 BigIP v9 which improved functionality and scalability in the enterprise.
- Managed the F5 BigIP GTM/LTM appliances to include writing iRules, SSL offload and everyday task of creating WIP and VIPs
- Other responsibilities included documentation and supporting other teams
- Experience working with BGP attributes such as Weight, Local-Preference, MED and AS-PATH to influence inbound and out bound traffic
- Involved in Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, InterVlan routing and LAN security.
- Use and maintain routing protocols EIGRP, OSPF and BGP on the Routers in the network & also worked on BGP Route Reflectors, Confederations
- Deployed a large-scale HSRP solution to improve the uptime of collocation customers, in the event a core router became unreachable.
- Configured and designed LAN networks with Access layer switches such as Cisco 4510, 4948, 4507 switches. Experience with convert PIX rules over to the Cisco ASA solution.
- Ability to plan independently and execute product testing with quality (White box, Black box testing, Scalability, performance, solution and system testing)
- Applies test expertise and experience to craft & execute test plans, conduct negative/exception tests, verification, performance and regression testing of RIA, HTML, AJAX, Mobile Web client, integration services, enablers & platforms.
- Performing Drive tests & analyzing RF drive test data to evaluate network performance - track out the TCH blockade & NIST other call related problems.
- Implemented HSRP on the Cisco 2948G Layer 3 switches and EIGRP, OSPF on 2 Cisco 2610routers, the Layer 3 switch, 3 Cisco 350XL Switches, Cisco 3524XL switches for load balancing and fail over. Configuring ASA Firewall and accept/reject rules for network traffic.
- Extensive knowledge and troubleshooting in data communication protocols and standards including TCP/IP, UDP, IEEE 802.3, NIST, Token Ring, Cable Modem, PPPOE, ADSL, Multilayer Switching, DoD standards.

## **Network Engineer**

Equinix - Sunnyvale, CA - September 2015 to June 2016

Responsibilities:

- Worked on Cisco Layer 2 switches (spanning tree, VLAN). Configured HSRP and VLAN Trunk 802.1Q, VLAN Routing on Catalyst 6500 switches.

- WAN Infrastructure running OSPF & BGP as core routing protocol.
- Configuration and troubleshooting of Cisco 2500, 2600, 3000, 6500, 7500, 7200 Series routers.
- Optimized performance of the WAN network consisting of Cisco 3550/4500/6500 switches by configuring VLANs.
- Troubleshooting IOS related bugs based on past history and appropriate release notes.
- Planning and configuring the routing protocols such as OSPF, EIGRP, RIP, and Static Routing on the routers.
- Planning and configuring the entire IP addressing plan for the client's network.
- Assisted the certification team and perform configuration of LAN\WAN technologies such as Ethernet, Fast Ethernet, and Gigabit Ethernet. Supported networks, which are comprised of 2000+ Cisco devices.
- Configured port-fast, uplink fast and other spanning tree features.
- Supported various Series of Cisco Routers like 7200/7600 series.
- Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500
- Implemented Security Policies using ACL, Firewall, IPSEC, SSL, and VPN.
- Experience with hardware load balancer administration and support, preferably with F5 and Cisco ACE load balancers.
- Experience in configuring Load balancers and Riverbed WAN optimizers.
- Configured MPLS L3 and L2 VPNs for customers
- Configuring and troubleshooting Riverbed, and Cisco PIX and ASA 5500-Series firewalls
- Rack and Stack, Installed and configured new routers and switches
- Used DHCP to automatically assign reusable IP addresses to DHCP clients
- Upgrade IOS, Flash memory and DRAM on core routers and field routers
- Also involved in Cisco ACE configuration and deployment
- Build network documentation which includes accurate site inventory, site network diagrams, logical LAN/WAN diagram, network device list (routers/switches), server information sheets, network administration information document
- Participated in various client projects to continually improve/upgrade network infrastructures
- OS upgrades in Nexus 7010 through ISSU (In service software upgrade).
- configured VPC, VDC and ISSU software upgrade in Nexus 7010
- Support for enterprise environment with distributed call processing
- Created an enterprise dial plan in Cisco Call Manager and Cisco Gateways
- Created and executed the test plans to meet the requirement of the project
- Maintained day to day Operations and configuring FIREWALLS.
- Review monitoring and security risks for our network infrastructure, update security policies using Juniper NSM and Palo Alto firewalls.

## **Network engineer**

Atria Convergence Technologies - Hyderabad, ANDHRA PRADESH, IN - June 2013 to April 2015

### **Responsibilities:**

- Design, Installation, configuring and support of new vSphere 5/5.1 ESXi servers with HP C7000 blade system and Cisco UCS.
- Install/Configure and troubleshoot VMware vCloud Director and administrating multiple labs and test environment.
- Created service profiles, vNIC and vHBA templates on UCS manager
- Configured Ethernet Interfaces, port channels, vPC on Nexus 5548 switches.
- Configured and Installed server ports and FC uplinks for UCS 6100 Fabric Interconnects.
- Implementation, support and monitoring of the Cisco UCS environment.
- Upgrade the whole HP Blade Chassis environment to latest versions including upgrading the HP Flexfabrics (VCM) to 4.0 firmware.
- Upgrade and stabilize the VI from ESXi 5.0/ 5.1 to ESXi 5.5 U1 using VUM and host profiles.

- Linked different vCenter servers using linked mode to have a single instance of vSphere client to manage the whole Virtual environment.
- Network refresh for LAN & WAN, migration for access layer switches from 3750-G to 3850-X Stacks & replacing routers 3825 & 3845 with 3925 & 3945 for small and medium sized Branches.
- Built LAN/WAN, TCP/IP network consisting Cisco switches and routers.
- Maintained and managed networks running OSPF, EIGRP and BGP routing protocols.
- Deployed VoIP phones and replacing analog phones with polycom IP phones providing access to voice and data traffic with QoS policies and configured ports to support VOIP, IP Helpers & Voice VLAN.
- Configuring High Availability (HA), Distributed Resource Scheduler (DRS), Host profiles, Storage profiles and Standard Switch
- Configured VMware HA, VMware DRS in acquiring higher efficiency for VMware Infrastructure.
- Install, troubleshoot and administer Windows 2003 and 2008 R2 Servers.
- Creating and managing Virtual Machines and Templates, worked with clones and snapshots of Virtual Machines.
- Manage Desktop pools, user's entitlement and Windows 7 image on VMware View environment
- Deployment of Windows 7 and Windows XP pools for different internal and external clients.
- Deployed automated/manual linked clone and persistent desktops with floating and dedicated assignments.
- Implemented the creation of templates for Windows XP / W7 taking snapshots and implementation of linked clone pools.
- Setup and manage Active Directory, DNS, DHCP and Folders redirect.
- Manage user application virtualization with VMware ThinApp
- Identify and push patches and software packages to the persistent desktops using SCCM.

## **Jr. Network Engineer**

Javi Systems India Pvt. Ltd - Bangalore, Karnataka - September 2012 to March 2013

### **Responsibilities:**

- Technologies handled by the team include but not limited to routers, switches, firewall and server for local area network (LAN) technologies and enterprise applications and desktop technologies.
  - Specific responsibilities included handling the Microsoft operations systems for Windows 7.
  - Responsibilities included management, documentation, following corporate policies and procedures, and scheduling as needed reports to management.
  - Responsible for configuring Cisco router 3800, 2800 series. Configurations involved routing protocols like OSPF, BGP, STATIC routes etc.
  - Worked on Cisco switches 4500, 2960, 3750 series. Configurations involved trunking, VLAN, Layer 3 Switching. Involved in configuration of Cisco catalyst 4500 Switches.
  - Created and design network layout and documented the network system design with detail information.
  - Responsible for creating, modifying, removing VLAN configurations as per the need.
- Configuring standard and extended access-lists for security purpose.
- Provide timely and accurate progress status on all ongoing support issues, with an emphasis on problems, issues, and concerns.
  - Responsible for Network Security architecture, analyzing current network security, implementing new systems, and procedures when necessary.
  - Oversees IPS Management, firewall configurations, and VPNs based on project and operational requirements.
  - Utilizes Network Access Control role configurations based on use and filtering requirements while checking server and firewall logs, scrutinizing network traffic for credit union violations, and evaluating inconsistent adherence to security policies.
  - Analyzes and resolves security breaches and vulnerability issues in a timely and accurate fashion.

- Prepares documentation of network configuration, asset management, applications, design, and assumes responsibility for performing timely and effective user support services.
- Assists users in accessing network resources. Provides phone, e-mail, and in-person support to end users.
- Provides training for end users on installed user and network software.
- Assumes responsibility for establishing and maintaining effective communication and coordination with Company personnel and with management.
- Maintains regular contact with all departments to obtain information and to correct errors in network operations.
- Distributes materials on updated projects. Keeps users informed of the status of their requests.
- Configures software for network installation and company-wide implementation.
- Completes hardware and software licensing functions and inventory management duties. Ensures company compliance with software licensing agreements.
- Maintain professionalism, integrity, and ethics in all actions and conversations with internal customers and outside vendors.

## SKILLS

BGP (3 years), Cisco (3 years), LAN (3 years), OSPF (3 years), routing protocols (3 years)

## ADDITIONAL INFORMATION

### TECHNICAL SKILLS

Routing Protocols: RIP, OSPF, EIGRP, IS-IS, BGP

Routers: CISCO 1800, 2600, 2800, 3600, 3800, 7200

Switches: CISCO 2900, 3500, 4500, 5000, 6500, Nexus 2000, 5000 & 7000, 7700VPC

LAN Technologies: Ethernet, TCP/IP, CDP, STP, RSTP, VTP, IGMP, 802.1x, VLAN, Inter-V-LAN

WAN Technologies: Frame-relay, PPP, HDLC, ISDN, ATM, MPLS, SES, Channel & Leased lines

Application Protocols: DHCP, DNS, SMTP, POP3, FTP, TFTP

Network Managements: SNMP, SSH, TELNET, ICMP

N/W Protocol: Sniffer Wire Shark

Wireless: WLAN Controllers, Cisco, Aruba access points

Security: CHECKPOINT, APPLICATION R77.20 and R77.30

Application Layer: FTP, HTTP, DNS, DHCP, SMTP, SNMP

Tunneling Protocols: L2TP, IPsec, PPPoE, GRE, MPLS, IEEE 802.1Q

Load Balancers: F5 GTM, F5 Series, F5 Networks (Big-IP), IKEV2