

# Mohteshim Khan

## Network Engineer - Hospira/Pfizer Inc

Chicago, IL - Email me on Indeed: [indeed.com/r/Mohteshim-Khan/8f4d10ffe27e3873](https://www.indeed.com/r/Mohteshim-Khan/8f4d10ffe27e3873)

- Cisco Certified Network Engineer with around 11 years of IT experience in design, development, implementation, trouble shooting and maintenance of complex network systems.

- A results driven, enthusiastic IT professional with experience in design, installation, configuration, administration and troubleshooting of LAN/WAN infrastructure and security using a variety of Hardware/ Software.

- Proven ability to lead and motivate project teams to ensure success.
- Analytical and detail oriented problem solver with a strong work ethic.
- Hands on Experience in Cisco works NCM
- In-depth knowledge of RIP, EIGRP, BGP and OSPF.
- Experience working with 5505, 5510, 5520 and 5550 model ASA's.
- Extensive experience in Installation, Configuration and Administration of FIREWALLS i.e. CISCO, Cisco ASA 5510, 5520, 5540, 5550, 5580, Juniper SRX, Junos, Fortinet, Checkpoint [...]
- Migrated Checkpoint from R71 to R75.
- Experience of VMware ESXi and VMWare Infrastructure.
- Implement F5 VMware View iApp
- Experience working with the latest ASA IOS (8.3, 8.4, 9.1)
- Managed over 500 networks devices for AAA using Cisco ACS 4.x
- Upgraded IOS on over 40 Cisco ASA 5500 firewalls and FWSM modules
- Working on PCI devices which include hardware/software upgrade and make the device compliant.
- Document and maintain network documentation using Microsoft Visio.
- In-depth knowledge of and Hands-on Experience on managing IP core network.
- Working various shifts and providing various levels of 24x7, on-call coverage.
- Experience in managing and Maintaining Nexus 5000 and 7000 series.
- Experience with wide variety of Cisco hardware, including Catalyst 3550, 3560, 3750, 4900, 6500 Series switches and Cisco 2800, 3800, 7200, 12416 Series routers.
- Expert level understanding and experience with IP multicast.
- Experience with F5 LTM, GTM, APM load balancers.
- Experience in Citrix Netscaler MPX, VPX load balancer.
- Experience with monitoring tools: Solarwinds Orion NPM, NCM, APM, Nagios, PRTG, MRTG, CiscoWorks and eHealth.
- Experience with AAA server like RADIUS and TACACS+.
- Track record for diagnosing complex problems and consistently delivering effective solutions.
- Supported other team members and facilitated in creating a stress reduced atmosphere.
- Deep understanding to ITIL framework and its use in day to day operation.
- Excellent troubleshooting and logical problem solving skills.
- High level of written and oral communication skills.
- Creative ability to solve unusual or difficult problems when logical methods have failed.
- Demonstrated ability to meet deadlines, and set priorities.

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Network Engineer

Hospira/Pfizer Inc - Lake Forest, IL - May 2014 to Present

- Installed multiple routers & circuits using HSRP & BGP protocols for redundancy, circuit load balancing & routing between multiple Internet Service Providers for high availability of production internet facing web servers.
- Upgraded Cisco IOS and Cat OS code on over 500 network devices including routers, Catalyst switches.
- Maintain IOS patches and security patches (regular maintenance responsibilities)
- Planned & executed a Layer 3 move from a Catalyst 6506 chassis to a pair of Catalyst 6509 switches and decommission of the 6506.
- Setup and Manage Nexus 5000 and 7000 series.
- Implemented and administered Websense Web Security Gateway for web content filtering and DLP.
- Orchestrated the implementation of VMware vSphere 4.1 cluster, converting over 200 physical servers to virtual servers, leading to significant savings.
- Experience working on Cloud Computing Virtualization using VMWare ESXi 4.0 and Windows Hyper-V.
- Built, configured and maintained PRTG Network monitoring probes. Deployed probes with VMWARE-ESXi OS and communications established with main PRTG servers at Datacenters. Uploaded sensors for various applications like OTM, Salesforce, EDX, Hyperion, O365 etc. to monitor traffic utilization, latencies.
- Implemented datacenter wide server consolidation project based on VMware ESXi/VC. Conducted datacenter wide server, data and applications migration (Platespin, P2V, VisionCore), within datacenter. Troubleshooted and fine-tuned the environment.
- Analyzed Dragon and Cisco NIDS sensor packet data along with information from other security appliances
- PIX and Raptor firewalls, Dragon HIDS to report network intrusions. Performed in depth byte-level analysis to develop Snort/SourceFire rules and Dragon Signatures.
- Configured SourceFire sensors for deployment in critical/high volume network segments. Managed multiple VLANs using Cisco 3550 and 6509 switches to monitor different network segments and traffic.
- Created detailed trouble tickets on actual network intrusions and future prevention configurations. Reported Dragon NIDS signatures that needed to be tuned or filtered and aided in the IDS sensor tuning process.
- Correlated network events with ARCSight and investigated reports of network intrusions to determine their validity.
- Designed applications to further enhance the packet analysis process. Wrote procedures for the SOC Security Operations Center on ticket escalation and IDS analysis process
- Planned & executed Layer 2 migration from an older pair of Catalyst 6509 switches running Sup2 Hybrid to a new pair of Catalyst 6509e switches running Sup720 Native.
- Monitor, maintain, and install all connectivity routes including T1's and VPN.
- Expert knowledge of RIP, EIGRP, BGP and OSPF.
- Configured/ administered/ deployed several Cisco 6500 series switches.
- Configured/ administered/ deployed Cisco 12000 and 10000 series internet routers.
- Configured channelized DS3 card on the Cisco 12000 series router for managing T1 lines.
- Performed dynamic routing protocols redistribution between OSPF, EIGRP and BGP.
- Performed Log Data Retrieval and Log Source Integration from/with SIEM.
- Monitored security events and acted as 1st level response to events from SIEM and ArcSight.
- Experience turning up WAN circuits.
- Configure F5 Big IP to provide Load Balancing for server farm
- Worked on F5 Big IP LTM, GTM 1600 and 3600 series load balancer
- Configured with F5 Load balancers in Failover for Load balancing and SSL
- Configure SSL certificate install and configure on loadbalancer.
- Create self signed certificate and deployed on Loadbalancer
- Hardware migration from Citrix Netscaler NS 7000 to MPX 9500
- Implemented Cisco load balancers cluster for firm's proprietary analytics web application.
- Implemented and administered Websense Web Security Gateway for web content filtering and DLP.

- Experience working with multiple carriers for transport line turns ups (Level 3, Cogent, AboveNet, GlobalCrossing, Verizon, XO).
- Troubleshoot various LAN and WAN connectivity Issues.
- Extensive experience in Installation, Configuration and Administration of FIREWALLS i.e. CISCO, Cisco ASA 5510, 5520, 5540, 5550, 5580, Juniper SRX, Junos, Fortinet, Checkpoint NGX-1/VPN-1 Firewall.
- Performed Any Connect VPN client upgrades for over 4000+ VPN users.
- Very Good Experience with Check Point Provider - Version R70 and R75.
- Strong TCP/IP understanding. Knowledge of debugging Check Point Firewall.
- Extensive experience with Check Point and CISCO Security Firewall Configurations and network configurations.
- Experience migrating from checkpoint R70 to R75 from splat to Gaia version
- Experienced with Firewall administration such as Juniper, Check Point or Cisco
- Experience with migrating checkpoint firewall from R71 to R75 series.
- Experience with configuring, supporting, and troubleshooting security products including Check Point, Juniper, Cisco, IDS solutions, and others.
- Implemented and configured ACS on all the network equipment
- Hands on experience with Cisco ACS 4.x servers.
- Managed over 500 networks devices for AAA using Cisco ACS 4.x
- Maintained 3500, 4500 catalyst switches, ASA Firewall and Remote Access Servers, and multiple VPN's.
- Implemented and maintained various WAN equipment such as Cisco 2800, 3800 and 7200 routers, ASR 9001 and 1006.
- Experience working with Cisco 3750, 4948, 2811, 2600, 7200, 6500, 12000, 10000 series switches and routers.
- Configured multi-homed BGP with HSRP, to provide full fault tolerance and automatic failover capabilities.
- Capable of developing and implementing new ITIL framework and procedures as well as improvements to existing policies and procedure.
- Manage and Maintain Network Compliance Manager.
- Implemented and managed network monitoring tools like Nagios and Orion.
- Maintained backups for the configuration files of all network devices.
- Design, implement and manage LAN and WAN development leading to a scalable and flexible infrastructure.
- Created support procedures, written documentation and update all the network diagrams using Visio.
- Maintained and supported daily, weekly and monthly backups for servers & network configurations using Kiwi Syslog server.
- Experience with common network management protocols/tools (TACACS, NTP, SNMP, SYSLOG, etc)

## **Network Engineer**

Citi Group - Irving, TX - November 2011 to April 2014

- Provide support for various design and deployment systems to include: planning and managing the development of new features and the ongoing creation of new equipment models and templates.
- Configuration and deployment of PRTG network monitors using VMWare EsXi and vSphere.
- Experienced with Ethernet protocols, network design and switch configuration.
- Collected and analyzed multi-source packet data through the NetForensics console from multiple IDS vendors. Used Enterasys Dragon, Snort/Sourcefire, ISS Site Protector and Symantec Manhunt to detect, assess and report network intrusions.
- Suggested possible remediation and proper prevention practices. Performed byte-level analysis to develop Snort rules and Dragon signatures. Monitored network security devices' up/down status with 'HP OpenView' and 'What's up Gold'.
- Handled VPN user helpdesk calls and resolved all issues as needed.

- Designed Java based client/server software applications to interact with various database management systems and automate the reporting process. Assisted other application developers in software designs and implementations.
- Supported the project from scoping requirements through actual launch of the project.
- Upgrading and troubleshooting Cisco Cat OS to the Cisco Switches and routers.
- Configuring Site to Site to VPN connectivity
- Help negotiate hardware, software, and circuit contracts for customers
- Configure and implement Remote Access Solution: VPN, ISDN dial up, Fractional T1
- Implement Cisco IOS Firewall IDS using 2600 series router
- Network Assessment and Documentation (including technical, operational, and economic assessment)
- Case handling Configure F5 BIGIP to provide Load Balancing for server farm
- Implemented and managed SSL VPN using Radius server (Cisco Any connect) on ASA 5550.
- Skilled knowledge of RIP, EIGRP, BGP and OSPF.
- Implement CiscoSecure Access Control Server (ACS 3.0) for Tacacs+/ Radius
- Provide training to the team members and staff. Update them with the latest technologies.
- Experience of VMware ESXi and VMware Infrastructure
- Experience working with 5505, 5510, 5520 and 5550 model ASA's.
- Experience working with the latest ASA IOS (8.3, 8.4)
- Experienced with VLAN, OSPF, subnetting, EIGRP, BGP, VTP, PaGP, spanning-tree, IP subnetting, wireless access points, T1 circuits and PIM-SM using auto RP
- Experienced in working with Checkpoint, 3COM and Tippingpoint.
- Provided support and set-up in most of the areas like, Bridging/ Routing, TCP/IP, RAS, RTP, T1, PRI, VoIP (SIP and H.323) and WAN.
- Experienced in backing up, restoring and upgrading the Router and Switch IOS and Cat OS
- Experienced in VOIP network management and troubleshoot
- Managed and supported all Cisco switches, routers and firewalls.
- Experience in any Ethernet network diagnostics tools.
- Hands on experience in debugging of Ethernet network issues with Wireshark.
- Experienced in manage the implementation of both large and small operations support systems for software development, system roll-out, data migration, training, support, and additional areas as needed.

## **Network Engineer**

First Data - Omaha, NE - June 2009 to October 2011

- Involved in Configuring Cisco routers and switch administration, familiar with enterprise level Cisco Routers such as 7200 Series, 3800 Series, 3700 Series, 2800 Series, and Cisco Catalyst series switches like 6500, 3750, and 4500
- Managing and Configuring Cisco Switches and Firewalls independently.
- Configuring and install hardware and software required to conduct network penetration testing.
- Experience in infrastructure strategies, hardware/software, security and networking products.
- Good experience with Check Point Provider - Version R62 and R65.
- Experience with configuring, supporting and troubleshooting security products including Checkpoint, Juniper, Cisco, IDS solutions and others.
- Create self-signed certificate and deployed on load balancer.
- Worked on LWAPP and EAP protocol.
- Designed highly redundant and fault tolerance for the financial industry clients.
- Provide on call support and created documentation on the issues solved.
- IOS upgrade and router hardening for 2600, 3600, 7200 routers and 6500, 2900 and 3500 series of switches.
- Investigated and resolved network issue using troubleshooting skills and network sniffers.

- Assisted with establishing Network Operations center (NOC) to proactively monitor the network resulted in better SLA and network performance.
- Experienced in Web gateways, firewall, IPS/IDS, VPN, DMZ and proxies.
- Maintained and supported daily, weekly, and monthly backups for servers and network configurations.
- Hardware migration from Citrix Netscaler NS 7000 to MPX 9500.
- Involved in setting up new Citrix Netscaler SDX 15000.
- Experience in the PCI remediation project, which includes Switches, Routers and Firewalls.
- Managed network monitoring tools like Solarwinds and Splunk.
- Diagnose and solve Frame relay /T1 lines, CSU/DSU and routers connectivity problems.
- Configuring and managing network traffic using 3Com SNMP and access list.
- Configured/ administered/ deployed several Cisco 6500 series Switches.
- Good knowledge of standards and compliance such as ISO 27001, COBIT, SOX, SSAS16, ISAE 3420.
- Configured site-to-site & remote access VPNs on PIXs, VPN concentration, IOS routers and ASAs.
- Experience in managing and maintaining Nexus 5000 and 7000 series.
- Migrate Cisco 2800 to 2900 series voice gateways.
- Implemented and administered websense Web Security Gateway for web content filtering and DLP.
- Implementation of checkpoint Firewall 4.1 to protect and authenticate local-net and DMZ.
- Defined policies, NAT and anti-spoofing for internal, external networks as well as Internet gateways.
- Configured multi-homed BGP with HSRP, to provide full fault tolerance and automatic failover
- Capabilities for several clients.
- Provide Network Operations support using Peoplesoft CRM.
- Designed and configured HSRP for redundancy.
- Used Fabric Extenders like 2248TP GE series for the top of the rack solution and used 5548P for the end of the row solution.
- Worked on physical site to gather the information of all network devices for device onboard program.
- Configuring and troubleshooting different protocols such as Static routing, VLAN routing, EIGRP and Frame relay.

### **Network Administrator**

DA Solutions - Hyderabad, ANDHRA PRADESH, IN - June 2006 to April 2009

- Hands-on experience with design and implementation of network security infrastructure (firewalls, IPS)
- Hands-on experience in datacenter environment (LAN/WAN/security/application)
- Experience with security as a discipline, with focus on IPSec, Access Control, Firewalling, IDS/IDP
- Hands-on experience with Cisco equipment, CDN platforms; test platforms: Spirent.
- Develop and document infrastructure support policies and guidelines
- Educate and mentor IT support staff as needed, including requisite training on technology and governance
- Research and stay current on Infrastructure best practices and function as a subject matter expert in this area
- Engage in complex production impacting technical issues and work to troubleshoot and restore service
- Configure, design, evaluate, and integrate information security solutions into client sites
- Extensive experience with Check Point and CISCO Security Firewall Configurations and network configurations.
- Strong TCP/IP understanding. Knowledge of debugging Check Point Firewall.
- Designed and Configuring the WAN infrastructure, consisting of multiple T1 and T3 lines, Cisco routers, Cisco switches, Dell and Sun servers.
- Optimized performance of the WAN network consisting of Cisco 4500/5500 switches by configuring VLANs.
- Experience in full life cycle, including coding standards, code reviews, source control management, build processes, testing, and operations.
- Experience with common network management protocols/tools (TACACS, NTP, SNMP, SYSLOG, etc)

## SKILLS

CISCO (10+ years), T1 (10+ years), T-carrier (10+ years), CHECKPOINT (8 years), LAN (6 years)

## ADDITIONAL INFORMATION

Skills-

### HARDWARE:

Cisco AGS+, 806, 1600, 1700, 2500, 2600, 3600, 3700, 4000, 4500, 4700, 7000, 7200, 7500 Series Routers, Cisco 1900, 2900, 3500, 4500, 5000, 5500, 6000, 6500 (Native & Hybrid) Catalyst Series Switches, Nexus 7000, 3750, 2950, Cisco ASA 5500, Cisco Catalyst, Extreme Switches, HP-Switches, Checkpoint, Palo Alto, Cisco CSS, F5 Networks (Big-IP), Citrix Netscaler, Ethernet Switches, NET IDNX 10 & 70 Multiplexors, Ascom Timeplex Multiplexors, NetScout RMON probes (T1, HSSI), MPLS, Network Associates Sniffer (stand-alone and distributed), Hewlett Packard Internet Advisor (LAN & WAN)