



Mohan Kaliyannan

Systems Administrator

a : Edmonton, Alberta, Canada
 e : mk@logitech.ca
 w : <http://logitech.ca>
 i : <https://www.linkedin.com/in/mk>

Technical Skills

OS	FreeBSD; Linux: Debian/Ubuntu, Gentoo, RedHat/CentOS, Windows : Windows 2008 R2 - Windows 2012 R2 Family.
Networking	TCP/IP, IP Routing, BGP, RIP, Firewalls (ipfw, ipf, iptables, pf), NAT, CARP, Load balancing, Traffic shaping, Cisco, TP Link, VLANs, STP, HTTP, SSL, SSH, DNS, SMTP, POP3, IMAP, FTP, TFTP, DHCP, NFS, SMB, SNMP
Daemons	Apache (mod_perl, mod_ssl, mod_proxy, mod_security), Nginx, MySQL, proftpd, OpenSSH, Qmail, Zimbra, vpopmail, Courier IMAP, Dovecot, Exim, BIND, IceCast MP3 Streaming Server, Zabbix, Nagios, OpenVPN, Heartbeat, Keepalived
Programming	Python, C, C++, Perl/mod_perl, bash, Application debugging and troubleshooting on code and system level: strace, ltrace, truss, lsof, tcpdump, netstat and GIT.
Databases	MySQL (replication, optimization), MongoDB, MongoCluster, MSSQL
Storage	ZFS (FreeBSD and Linux/ZoL), NetApp, iSCSI (istgt), DRBD, LVM, AWS S3
Certifications	Red Hat Certified Engineer (RHCE) Cisco Certified Network Associate (CCNA) Citrix Certified Professional (Networking) ITIL Foundation v3 Citrix Certified Administrator (Xenapp Virtualization) Microsoft Certified Solutions Expert (MCSE) .
Web Servers	Apache, NGINX, IIS, Tomcat, NodeJS
Virtualization	Redhat KVM, OpenVZ, Xen, Xenserver, VMware

Work Experience

Systems Administrator

May 2014 - Present

[Intelliwave Technologies](#), Edmonton, AB
 Materials Management and Tracking Company

- Deploying, managing, and operating scalable, highly available, and fault tolerant systems on AWS
- Implemented redundant, instant-failover, VPN tunnels between five data centers running on top of Internet using IPSEC openswan.
- Migrated Atlassian tools from older version to newer version with different environment.
- Rebuilt and migrated freebsd based router to provide NAT and Firewall solutions : pf firewall, carp failover, etc.
- Removed router-related downtime due to improved stability and eliminated previous double kernel panics across the redundant pairs
- Designed, documented and supervised the addition of new Virtual Private cloud routing and redundancy
- Implemented a redundant FreeBSD-based pair of routers and Introduced source routing and traffic separation between the different subnets for better utilization of available bandwidth
- Developed custom image for CentOS, bash script. Host for binary packages, cvsup server providing fast updates of base OS sources
- Implemented NGINX reverse proxy with loadbalancing with various websites to offload SSL
- Implemented backup solutions over NFS and S3 providing cheap redundant storage of over TB
- Implemented Centralized logging servers using Splunk)
- Created tools based on developer requirements like password portal, Infrastructure dashboard
- Added zabbix based graphing and monitoring of Linux and Windows systems which helped us identify bottlenecks and improve reliability
- Providing IT support for Software Developers and Field Engineers and others to dealing IT issues
- Resolved technical issues such as DNS issues by organized the issue measures and implemented SSO (Single Sign ON)
- Deployed Citrix solutions to provide windows application access to the clients with secured environment
- Implemented MongoDB cluster, Failover and backup solutions

Technology Support specialist

May 2012 - May 2014

[A+ IT solutions](#), Edmonton, AB
 IT consulting firm (Worked with various clients)

- Adminstrated a mix of CentOS 5.x, Windows servers 2008 R2, FreeBSD 9.x and redhat systems as well as PVM, HVM instances
- Support Team for Citrix Projects and design including Citrix XenApp, Server Virtualization and hosting on Cloud.
- Worked with IT team to provide 2nd level IT support for entire school districts around 2000 computers
- Managed and administrated of Microsoft Windows servers such as Active Directory, Citrix XenDesktop/XenApp, VMware ESXi, vCentre and Xenserver
- Involved to hardened the security for existing environment for servers
- Day to day operations based on the Ticketing system.

- Implemented automated task using PowerShell to manage application service status to send E-mail
- Migrated Exchange from 2007 to 2010 with team and managed nearly 900+ Users
- Used configuration management to deploy the applications packages
- Migrated Citrix Webinterface 5.4 to Storefront 3.x servers with custom webpages for Citrix Xenapp Servers
- Designed and deployed Xendesktop succsesfully for 100 users envorinemnt.
- Designed and implemented gateway with SPAM filter with integrated third party antivirus soltuions
- Implemented server backup solutions based on ZFS and opensource snapshot tools

Systems Engineer

July 2011 - Dec 2011

Solutions Middle-East, Dubai, UAE

Provides business solutions to its customers that compliment their current systems-based revenue investments.

- Provided onsite and remote support for daily breakdown calls by identifying the problem and reviewing related information to implement appropriate solutions
- Project implementation & support of Computer Telephony & Unified Messaging systems
- Provided Netscaler, WANScaler, Application Firewall, Riverbed Steelhead and also Installation & support
- Pre-sales consultation, post sales support and project management of Computer Telephony and other applications
- Deployed Citrix soltuions for 100+ deployments in Dubai, Abudhabi, sharjah locations
- Dealt various issues with IT vendors such as IBM, Microsoft, Citrix, VMware
- Maintenance, troubleshooting and optimization of applications running on Red Hat Enterprise Servers
- Provided systems administration, monitoring, maintenance, deployments, troubleshooting and continuous integration services to the web
- Resolved customer incidents and security issues
- Carry out Preventive Maintenance

Technical Support Analyst

Septemb - October 2009

Hewlett Packard, Bengaluru, INDIA

Leading PC Manufacturer and IT solutions vendor

- Provided systems administration and technical support for end users as well L2 server support,
- Worked based on incidents provided by ticketing system
- Maintenance, troubleshooting and optimization of applications running on Red Hat Enterprise Servers, Microsoft Windows Servers, Memcached, HAproxy
- Involved implementation of citrix presentation server and xenapp server at the time and as well publised various applications.
- Involved Citrix Netscaler deploying and implementation
- Updated hotfixes and patches for Microsoft and Citrix
- Dealing with access problems, diagnosing and troubleshooting all incidents related to Microsoft services
- Patch Management

Systems Administrator

July 2007 - May 2010

City computers, Coimbatore, INDIA

Web hosting and software development

- Started as a Desktop support and shortly after added system Administrator duties
- Administrated Linux, Unix, windows servers (RedHat, Debian, FreeBSD) and Cisco switches
- Hardware management, assembly, debugging, stress testing, server monitoring, troubleshooting and high level technical support
- Network administration: VLAN, Redhat based firewalling with iptables, NAT, etc.
- Created, administrated and maintained the server and office network including firewall, load balancing, etc.
- Worked with short deadlines and always met expectations. The job was a mixture of programming and systems/network administration with emphasis on programming
- Implemented the office open-source ticketing system
- Resolved customer incidents and security issues

Education

Degree	Bachelors	July 2007- May 2011
Major	Electronics and Telecommunications Engineering	
University	Rajasthan Vidhyapeeth .Udaipur	
Post Secondary	Diplomo	June 2003-June 2005
Major	Electronics and communitcation Engineering	
Institution	SMA polytechnic college. Dharmapuri.	

Personal Information

- Fluent in English, native in Tamil language
- Strong team player and fast learner
- Dedicated and responsible with attention to detail
- Class 5 AB driver's license
- References available upon request