

Mohan Balasundaram

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Senior Linux Administrator / DevOps Engineer

Profile

Ambitious Linux administrator with over 8+ years of experience and integrated computer skills to meet the client needs. Professionally certified by Redhat (RHCE), Cisco (CCNA) and other qualifications that include:

- Knowledge and experience in working with a wide variety of technologies and has the passion to work with latest technologies.
- Highly motivated, Quick learner, Analytical, Precise and productive with the demonstrated ability to contribute to the success of the company.

Technical Skills

- Operating Systems
Redhat / Centos , Suse , Fedora, Ubuntu, Debian, Open Solaris (x86), Windows XP / Vista / 7 / 2003 Server / 2008 Server
- Virtualization / Configuration Management / Automation
Vmware Esx / Vsphere, Virtualbox, KVM, Xen, Amazon AWS, Linux Kickstart / Auto Yast with PXE ,Cobbler, Koan, Puppet, Ansible Mcollective, Hiera, Git, Svn, Jenkins
- Databases
MySQL, MySQL Clustering (Master/Master, Master / Slave setup), Postgres with slony replication, SQL Lite, MongoDB, Basic Oracle.
- Storage
LVM, RAID (hardware / software – mdadm) , SAN (HP MSA's) & Basic NetApp Filers
- Web/Application Servers / Load Balancers / Mail
Apache, Lighttpd, Nginx, Tomcat, Jboss, ActiveMQ, Liferay, LVS, Ha Proxy, Hardware Load Balancers (CSS 11501/ BIGIP), Sendmail, Postfix, Dovecot (POP3 / IMAP)
- Network Services
SSH, SFTP, Vsftpd, Proftpd, BIND/PDNS, NFS, Samba, DHCP, TFTP, Squid, DRBD
- Programming
Strong Bash / Perl / Ruby Scripting skills, solid knowledge in sed and awk, Basic PHP
- Firewall / Security
Good knowledge in Iptables, Pfsense, Smoothwall, tcpdump, tcpwrappers, DenyHosts, Fail2Ban, nmap, Nessus, Wireshark and working knowledge of SELinux
- Monitoring / Utilities
Excellent knowledge in Nagios/Icinga, SNMP, Cacti, Graphite, Munin, MRTG, Webalizer, Awstats, Java Monitoring via JMX, Sendmail Analyzer, rsnapshot, clonezilla
- Networking
Familiar with Cisco Routing Protocols (RIPv2, EIGRP, OSPF), Cisco Routers, Pix Firewall, VPN's, Catalyst Switches (2500, 3500), vlans.

Professional Experience

Worldline e-payment Services – Devops Analyst (Aug 2013 - present)

Devops Analyst at worldline e-payment services (ATOS UK), part of the DevOps / infrastructure support team where job responsibilities include:

- Manage the existing Linux Infrastructure & Provisioning new vm's in vmware vcenter, build/configure the linux host according to the bespoke client requirements standards with PXE/ Redhat Kickstart / post_install scripts / puppet.
- Build/Manage linux based Application Servers (Tomcat/Jboss with mod_jk and mod_proxy) in the three tier architecture Model with bespoke setup running proprietary applications.

- Managed / Configured Complex Multi Instance / Shared environment setup used by various well known UK Merchant Services and have a very good understanding of the following enterprise application deployments (Jboss, Jboss Fuse, Maven, ActiveMQ, Tomcat, Liferay)
- Manage Multi Instance MySQL Server with GTID replication configured in HA Environment
- Deployed various monitoring solutions for Monitoring (Icinga - nagios fork with graphs / JON Server for Jboss Monitoring / Mysql Enterprise Monitor for Mysql / Replication)
- Deployed / configured pfsense firewall with HA Proxy VIP's for the various services
- Worked alongside with Developers to understand the system requirements, Provided Infrastructure support in a very busy environment prioritizing tasks, responding to incidents & troubleshooting complex issues end to end
- Worked with Luna SA HSM for a PCI - Compliant Solution
- Configured 2811 ISR Cisco routers in secure remote Data Centers

Research In Motion – Service Engineering Specialist (Nov 2010 – Aug 2013)

Senior Linux System Admin in Blackberry UK, responsible for maintaining Blackberry Email Infrastructure services where other job responsibilities include:

- Manage the current Multi region Linux Server farm setup & Respond to Incidents
- Worked on various Data center Deployments (IBM HS22V Blades) from ground up using PXE / Kickstart and bootstrapped with puppet for automated provisioning of machines
- Written puppet content with multiple environments setup to suit the DC's changing needs and deployed various applications (ex: Suse linux / Apache / Cacti / Mysql / Tomcat / proprietary c++ and Java apps) and maintained it using git.
- Worked with encrypted data setup using encfs for proprietary content in unsecured DC's
- Worked on multiple large scale Code upgrade releases / migrations across DC's and managed to find improved methods in reducing the downtime.
- Worked on deployment of barebone kvms / opennebula based cloud services and configured / supported various production services in the cloud setup
- Automated several tasks using scripts written in bash / expect / perl / ruby
- Adding new carriers to the blackberry network and troubleshooting system issues in the network and issues related to mail delivery in handhelds.
- Executed multiple critical / small changes in the network successfully

Nixxie Ltd, London - Linux System Administrator (Feb 2008 – Nov 2010)

Linux System Administrator for Nixxie Ltd a small Contextual Advertising Company where job responsibilities include:

- Maintaining the High Availability of Delivery / Hosting Servers and related services.
- Building (RHEL/Centos) Servers for the Delivery / Hosting infrastructure according to the bespoke requirements (LAPP/ LAMP - Postgresql/MySQL).
- Building Mirrored Server setup / MySQL Cluster (Master / Master) Setup for the hosting Infrastructure.
- Building / Managing Application server (Tomcat) with Postgresql server.
- Monitoring the infrastructure with nagios / cacti 24x7 to provide maximum uptime.
- Managing Sendmail server with Message labs/ POP3 Mail server for proper mail delivery.
- Backing up delivery / hosting servers (DB / WWW / Logs) remotely using rsync / tar
- Automating the backups and other routine tasks / generating reports with Bash / Perl.

- Built / Managing the SVN based auto deployment system on Perl which pushes the updates to the corresponding web folder whenever a commit is made.
- Setup / Managing windows2003 server shares mirror between Mauritius and London.

Freelance / Contract Work

Symba Limited, London - Systems Support Engineer (Oct 2007 – Nov 2007)

Worked as Systems / Network Support Engineer in a **NHS** project at Enfield Town for building Oracle infrastructure, where job responsibilities include:

- Installing & configuring Redhat Linux in HP DL360 & DL380 Servers
- Configuring Fiber port HBA's to Work with HP Storage works SAN (MSA 1500) via HP Storage Works 4/8 SAN Switch
- Configuring VERITAS Net Backup with HP MSL 2024 Tape Library via HP Storage Router N1200-320, Configuring Sendmail As Smart Host, MRTG Monitoring.
- Configuring the CSS11501 switch for load balancing and Assisting the DBA in building Oracle Cluster & with other Linux administration skills.

Freelance Technician (Nov 2006 – Oct 2007)

Worked as a Freelance Network / Systems Support Technician in many different places (Ex: Symba, Advanced Telecom Networks Ltd, Glenmore Commercial Ltd, Kingsgrove Consultants Limited, Sanghamam)

- Building SOHO networks from the scratch Cabling, Assembling Computers , OS installation, troubleshooting, File & Printer sharing for the network.
- Configured wired /wireless routers to share the public IP, Port Forwarding for specific services, Remote Access using RDP, VNC or using VPN (Virtual Private Network) with Dynamic DNS, Web/Mail Hosting, network troubleshooting etc.

Symba Limited, London - Cisco Engineer, (Nov 2006)

Worked as Cisco Network Engineer for **NHS** project at Enfield Town in a small contract job (one week). Where job responsibilities include:

- Configure CSS 11501 Content Switch with virtual IP to work and to load balance across 2 node Oracle Application server Clusters to operate with 2 node Oracle Database Servers on a different subnet.
- Configuring Layer 3 & Layer 4 rules for specific services as requested
- Testing the Switch functionality for the cluster fail over and fail back and helping the DBA with the essential Linux administration skills.

Switchware Limited, London. Systems Engineer. (Nov 2005 – June 2006)

Worked as Systems Engineer in a fastest growing pan European prepaid Telecom Company (Lycatel). Where job responsibilities include:

- Monitoring various servers and switches, testing the existing carrier routes for proper stability and call clarity and blocking the nonpoor quality routes, which are found to give poor ACD and ASR values.
- Assembling of PC's, Installation of SQL server/ Windows NT/ windows XP/ windows2003 server/Configuring outlook, installing office XP, Antivirus, Surf control.
- Total LAN Maintenance in the patch panel, switches and PBX management and troubleshooting Desktop and server systems if there is any fault.
- Worked in Telecity / Telehouse (Europe) for the migration of the network.

McAfee Antivirus Tech Support, Chennai. Help Desk Engineer (2004 – 2005)

- Assisted US based Clients with the installation, configuration and management of Antivirus, firewall and all other McAfee products via telephone and e-mail.

- Collected FAQ and actively tracked and followed up on trouble tickets, reducing average response time from 3 days to 1 day.

Qualifications

2005 - 2007 Masters in Information Security and Computer Forensics,
University of East London, London, UK

2000 - 2004 Bachelor of Engineering, Electronics & Communication,
Madras University, Chennai, India.

Professional Certifications

2010 - ITIL V3 Foundation

2008 - RedHat Certified Engineer

2006 - Cisco Certified Network Associate

2006 - Microsoft Certified Systems Engineer (2003)

2005 - Microsoft Certified Professional

Trainings Attended

2011 - VMware Vsphere 4 (Installation / Troubleshooting)

2012 - Cloudera Hadoop Administration

References

References are available upon request.