**Sr. System Administrator**

**Professional Summary**

* Over 7 years of experience specialized in System Administration working on **Redhat Linux, Oracle Enterprise Linux, Solaris, SUSE Linux, AIX, Cent OS, HP-UX 10.2x, 11.3x** and **Windows** environments.
* Experience in administering, **Installation, Configuration, Backup, Recovery, Maintenance, Support of Linux**.
* Experience in Installing, upgrading and configuring **RedHat Linux 4.x, 5.x, 6.x** using **Kickstart** Servers and Interactive Installation.
* Performed migration from **RHEL 6.2** to **SLES and CentOS 6.2**
* Worked with Database administrators to **tune KERNEL** for **Oracle** installations.
* Experience with **Veritas Volume Manager (VxVM), Veritas File System (VxFS), HP MC Service Guard, Veritas Net Backup, Veritas Clustering** with SAN, NAS environment.
* Experience in installing, configuring and implementing the **RAID** technologies using various tools like **LVM**, **VxVM.**
* Experienced in Creating and managing user accounts, security, rights, disk space and process monitoring in AIX and Redhat Linux.
* Installing and upgrading **RHEL Packages** and **Patches** configuring version control, service pack & reviewing connectivity issue regarding problems regarding networking protocols.
* Experience in configuration of **NIS, NIS+, DNS, DHCP, NFS, LDAP, SAMBA, , postfix, sendmail, FTP, remote access, security management and Security** trouble shooting skills.
* Experience on Webservers such as **Samba Web Server 4.1, 4.12, Tomcat 3.x, 4.x, 5.x & Apache Server 1.x, 2.x** and integrating them with **Weblogic 10.x servers**.
* Experience in administering **VMware Infrastructure Client 3.5** and **Vsphere 4.0.**
* Experience in Installing**OracleDB** and **MYSQL**.
* Wrote **Shell Scripts** to help with automation of basic mundane tasks**.**
* Experience in use of **Cron** as a schedulingtool
* Hands on experience in monitoring using **Shell, Python & Perl scripts.**
* Team player with good management, analytical, communication and interpersonal skills.
* Experience in Installing Firmware Upgrades, kernel patches, systems configuration, performance tuning on Unix/Linux systems.
* Experience in**AIX** using **Kerberos V5** and **Dynamic Secure Authentication Tunnel.**
* Experience working in SAN environment like EMC Symmetrix **DMX3, DMX4** and Clariion **CX3** series arrays.
* Handled creation of Linux Virtual Machines using VMware Virtual Center and AIX LPARs on P550 and P570.
* Installation and configuration of **Jboss/Wildfly**, Web Sphere 5.1/6.0 Application Server on AIX and Linux servers.

**Technical Skills**

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| Networking | HTTP, TCP/IP, NFS, Telnet, FTP, DNS, DHCP,TFTP, NAT, ifconfig, route, netstat, |
| Admin Tools | smite, linuxconf, vmstat, iostat, top, Traceroute, ping, sar, ntop, Webmin, VMware ESX/vSphere |
| Backup | tar, cpio, dump (ufsdump)Security - SSH, SSL, IPchains, IPtables, TCP Wrappers, Tripwire, port scanners, password crackers |
| Language | Perl scripting and shell script. |

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| Operating System | HP-UX 11.0,11.11,11.23,11.31, AIX (4.3/5.x), Linux(RedHat, CentOS & SuSE), Windows NT /2000/2003. |

**Professional Summary:**

**Client: 3M, Austin, TX Duration: Nov 13 – Current**

**Designation: Linux/Unix system administrator**

**Responsibilities:**

* Installation, configuration and OS upgrades on **Red Hat Enterprise Linux 5/6/6.5, AIX 5.3/6.1, Oracle Enterprise Linux 5.5** and **Oracle Virtual Machine 2.2.1.**
* Configuring **Kickstart**Servers and booting the images using **PXE** in Redhat Enterprise Linux.
* Installation of OS using **Kickstart** and **NIM (AIX).**
* Deployed **Puppet**, **Puppet Dashboard**, and **PuppetDB** for configuration management to existing infrastructure
* Expert knowledge ofInstallation of patches and other software packages on OEL 5.5 Servers.
* Hands on Experience in Servers consolidation and virtualization using **VMware's virtual infrastructure, VMware ESX, VMware Vcenter**.
* Used LVM and Veritas Volume Manager for managing disk space on RHEL servers.
* Responsible for the VM configuration file changes and creation of block devices on “**Netapp**” which are mounted on physical server by **NFS** file system. Monitored the memory and VCPU’s allocation to each virtual machine as per the requirements of Oracle DBA team and Application team.
* Configuration of network-interfaces on both physical machines and virtual machines and verification of network service with fail-over concept.
* Experienced in importing the both physical and virtual machines into **Oracle Virtual Machine Manager.** Live Migrated VM’s from one physical to another physical server using OVM Manager.
* Created **RAID 0+1** and **RAID 1** Storage Systems on physicals using **Oracle Virtual Machine 2.2.1** Operating System.
* Configured High Availability of the Cluster using Veritas Cluster Server 5.0/5.1 on RHEL servers.
* Configure **IBM PowerHA** for a clustering environment on **AIX servers** and administered the virtualization environments consisting **VIO servers**.
* Created **LPAR’s** on IBM Power series servers using **VIOS**.
* Managed **VIOS** using **HMC/IVM** for both blade and enterprise **IBM** servers.
* Use ILO/IVM/HMC for remote access of servers on Linux/AIX respectively.
* Implemented and configured **Backup policies** and Storage Units using **VeritasNetbackup 6.5.5.** Monitored system resources, logs, disk usage, scheduling backups and restore activities on netbackup from both CLI and GUI. Responsible for starting and stopping netbackup service whenever there is a scheduled maintenance window.
* Worked with **SAN** administrator in assigning **Netapp** storage to a new Oracle instance request.
* Configuration and maintenance of **DNS**, **NIS+**, **LDAP** on **AIX**servers.
* Registered machines with “**RHN**” to get the latest patches.
* Created partitioning for Hard Disk’s and made “**ext2**/**ext3**/**ext4**/**nfs**” file systems on both physical and virtual machines.
* Writing general administrative scripts using (**bash/Perl)**.
* Monitored servers, switches, ports etc with **Nagios** monitoring tool. Made changes to the configuration files on client servers and host server.
* Worked closely with **Oracle DBA** team and **Weblogic** Application team to ensure optimal performance of databases, and maintain development applications and databases.
* Created **VSFTP** accounts on Linux servers for application team based on the instances.
* **Tuning** the **kernel parameters** based on the application/database requirement.
* Configuring **SUDO** and granting root permission to users for performing specific activities.
* Performed team maintenance duties by creating and closing tickets in “**HP OVSC**”.
* Set-up and Maintained Domain Name Server (**DNS**) by adding and deleting the host name and **IP** address as per the user request.
* Installing and configuring Linux services to a network attached printer.
* Created “**P**rocess **C**hange **C**ontrol **T**racking” tickets to get approval in Change Management from the infrastructure director and all teams to implement the **C**hange **R**equest and notifying the break fix issues in the environment to everyone.
* Worked with network team to assign the IP address for new physicals and virtual servers.
* Performed general administration tasks like adding users, **FTP** accounts creation, file ownership changes, symbolic links creation and labeling the disks.

**Environment:** Red Hat Enterprise Linux 5/6/6.5, IBM AIX 5.3/6.1, HP Proliant DL785-G6 & G7, DELL Poweredge 2850,2950 Servers, IBM Power 755/770, OVM 2.2.1, OEL 5.5, Sun Fire V280,V480R, Oracle Virtual Machine Manager, HP Open View Service Center (OVSC), Mailman, Weblogic 8.1, Oracle 11i, R12, VeritasNetbackup 6.5.5, Nagios 3.2.3, Cacti, ILO 2&3, IVM, HMC, Windows 2003/2008 Server, LAN, SAN, NAS, NFS, DNS, Tomcat, Apache Server, Shell Scripting.

**Client: Forest Labs, Commack, NY Duration: Jan 2012 – Oct 2013**

**Designation: Unix/Linux Administrator**

**Responsibilities**

* Administration of RHEL and AS 4, 5, 6 which includes installation, testing, tuning, upgrading and loading patches, troubleshooting both physical and virtual server issues.
* **DeployedPuppet** for configuration management to existing infrastructure.
* Creating, cloning Linux Virtual Machines, templates using **VMware Vsphere 4.0/4.1** and migrating servers between ESX hosts.
* Installing **RHEL** using **Kickstart** and enforcing security polices for hardening the server based on the company policies.
* Hands on experience Setting **Quotas** for different users as per ticket requirements.
* Installing and upgrading HPUX on HP PA-RISC and Itanium Servers 5 on HP DL 380 G3, 4 and 5 & Dell Power Edge servers.
* **RPM** and **YUM** package installations, patch and other server management.
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Worked and performed data-center operations including rack mounting, cabling.
* Worked on HP-UX servers in an MC Service Guard high availability cluster.
* Experience working with HP LVM, creating physical, volume groups, logical volumes both physical and SAN disks.
* Installation and deployment of a **Red Hat Network Satellite Server 5.4.1**.
* Installed and configured GNUPG to encrypt file and ftp to remote ftp server.
* Decommissioning of the old servers and keeping track or decommissioned and new servers using inventory list.
* Troubleshoot various systems problems such as application related issues, network related issues, hardware related issues etc.
* Provision operation system in Logical Domain Manager (LDOM) v 1.2 and provisioning resources to the logical domains.
* Creating policies, jobs in **HP Opsware**, deploying them on linux, windows, AIX servers.
* Working on Volume management, Disk Management, software RAID solutions using **VERITAS Volume manager**. File system Tuning and growing using **VERITAS File System (VxFS**), coordinated with SAN Team for storage allocation and**Disk Dynamic Multi path**.
* Set up user and group login ID's, printing parameters, network configuration, password, resolving permissions issues, user and group quota.
* Configuring multipath, adding **SAN** and creating physical volumes, volume groups, logical volumes.
* Gathering requirements from customers and business partners and design, implement and provide solutions in building the environment.
* Installing and configuring **Apache** and supporting them on Linux production servers.
* Worked on E-commerce based application products related to Internet marketing, credit card transactions, inventory management.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as **IPtables**, firewall, TCP wrappers, NMAP.
* Preparing servers for **Oracle RAC** installation which includes tuning the kernel, agent installation, adding NAS storage on 2, 3, 4 node clusters.
* Designing Firewall rules for new servers to enable communication with application, Oracle 10g servers.
* Monitored server and application performance & tuning via various stat commands (vmstat, nfsstat, iostat etc) and tuned I/O, memory, etc.
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Installation and configuration of **VxVM 5.0** and creating disk groups, volumes, increasing volumes.
* Coordinated with the Storage, Network and Hardware teams on server provisions (**HP Proliant** DL385/585 **G5, G6** servers, **and HP BL 465CG5** blade centers).
* Installing, configuring **Web logic** 10.3, Apache and integrating them.
* Experienced in Troubleshooting critical hardware and software issues and other day-to-day user trouble tickets.
* Adding servers to the domain and monitoring them using **Nagios**.
* Developed automated processes that run daily to check disk usage and perform clean up of file systems on UNIX environments using shell scripting and CRON.
* Administered SMTP and DNS infrastructure ( Sendmail 8.14 and BIND SPLIT DNS version 9.6.1)
* Excellent documentation skills and instrumental in creating runbooks, presentations and infrastructure documentation

**Environment:** Red-Hat Linux Enterprise servers (HP Proliant DL 585, BL 465/485,ML Series, SAN(Netapp), BladeLogic, Veritas Cluster Server 5.0, Windows 2003 server, Shell programming, Jboss 4.2, JDK 1.5,1.6, ,VMware Virtual Client 3.5, VMware Insfrastructure 3.5.

**Client: JP Morgan Chase, Jersey City, NJ Oct 2010- Dec 2011**

**Unix/Linux Administrator**

**Responsibilities:**

* Installed/configured/managed/Administrated of all UNIX/LINUX servers, includes the design and selection of relevant hardware to Support the installation/upgrades of **Red Hat (4/5), CenOS 4/5, Fedora core** operating systems
* Performed Building up of servers, deployment activities, and environment support including installation, configuration diagnostics, planning and upgrades.
* Responsible for design and implementation of IT infrastructure such as data center, servers, storage, backup, and virtualization.
* Support for Linux/Unix systems administration, operational support and problem resolution for server systems.
* Created shared **NFS files system**, mount and unmount**NFS servers**, **NFS client** on remote machine, sharing remote file folder, starting &Stopping the **NFS services**.
* Responsible for Installation, configuration, Maintenance, Deployments, Update,, Monitoring, performance tuning on Linux.
* Experienced in monitoring and debug performance issues on different **OS Linux (RHEL & Centos),**
* Systems log management, Data backup and restoration with UNIX native tools (tar/dd).
* Managed DNS server. Updated forward and reverse lookup files for all the new machines added in the domain. Created reverse lookup files for the new subnets added into the network.
* Created Storage Group, Zones, volume groups, and different RAID’s using EMC Utility and responsible for backup and recovery using NetApps Snapshot.
* Repaired bad spots on the disk using repair and analyze. Used format and fdisk/Parted for disk configuration and disk crash recovery.
* Installed and maintain puppet-based configuration management system
* Put together and managed LVM on Linux using tools like **lvextend, lvcreate, resize2fs** etc
* Performed basic functions, such as establishing new accounts, creating and resetting passwords, developing, scripts, performing system backups and recovery, and installing software patches and updates.
* Developed basic Shell Scripts for automating administration tasks like file system management, process management, backup and restore.
* Wrote Shell scripts to monitor installed enterprise applications and to get information from the logs and database in the required format and other daily activities and jobs.
* Setup of full networking services and protocols on UNIX, including **NIS/NFS, DNS, SSH, DHCP, NIDS, FTP, TCP/IP, ARP,** Applications and print servers to insure optimal networking and printing functionality.
* Worked on FTP servers for sending and receiving files between local and remote servers.
* Configured Open source tools like **Nagios, Cacti, Zabbix, Centreon** for Monitoring
* Providing 24/7 on-call support on rotation basis and Handling High priority incidents through bridge calls.

**Environment:** Red-Hat Linux Enterprise servers (HP Proliant DL 585, BL 465/485,ML Series, SAN(Netapp), BladeLogic, Veritas Cluster Server 5.0, Windows 2003 server, Shell programming, Jboss 4.2, JDK 1.5,1.6, ,VMware Virtual Client 3.5, VMware Insfrastructure 3.5.

**Client: Nepal Investment Bank, Kathmandu, Nepal Duration: Sept 2009-Aug 2010**

**Designation: UNIX/LINUX Systems Administrator**

**Responsibilities**

* Administered **UNIX** Systems for clustered **UnixServers** running Dynamic **LPARs** with fiber attached **SAN** storage.
* Solid implementation of **Red Hat EnterpriseLinux** installation over the network using **Kickstart** on **Dell** servers.
* Involved in preparation of technical design specifications, installation and configuration of **RedHatLinux**, and **IBM AIX** Servers.
* Maintained **SUSE Enterprise Linux 9** and **Red Hat EnterpriseLinux5.x** servers in development, test and Production environment and proactively monitored and administered production and development servers.
* Involved in applying new **patches** and **packages** for **UNIX (AIX, HP-UX)** and **Linux** Servers **(Red Hat, SUSE)** and handled issues arising out of them.
* Implemented Virtualization using **VMwareESX Server** in **Linux** on **HP-460C Blade, Dell-2950**.
* Performed Server consolidation and virtualization using **VMware** virtual infrastructure that includes **VMwareESX**, **VMWare, VirtualCenter** and **Virtual SMP**.
* Implemented high-availability applications based on the **Unix/Java** stack, mainly the **JBoss/ Application server** on top of **Red HatLinux** OS.
* Provided support for Red Hat **JBoss 4.x, 5.x**and **Apache 2.0**, ATG applications for operations related to installation and configuration.
* Performed Disk Mirrors and **RAID 0, 1** and **5** levels on several **UNIX** and **Linux** servers.
* Worked with Database administrators to tune the kernel for **Oracle** installations on **Linux**.
* Actively involved in solving **EMC/HP XP/EVA** storage, **Brocade** switches, **Veritas NetBackup** escalated ticket.
* Coordinated with various hardware and software vendors to troubleshoot the hardware and software problems related to **Red Hat, HP-UX** and **AIX**.
* Performed network monitoring and managed devices via the **Nagios** Network Monitoring Software.
* Performed network analysis using **SNMP** protocol and **RMON**.
* Generated reports to show the trends of resource utilization **User/CPU/Network load**.
* Drafted shell scripts for automated installations and to extract logs.
* Worked with System engineering team to resolve tickets related to engineering issues like firewall **(SELinux)** change requests. Provided Round the clock support to solve Production issues.
* Worked with **Red Hat Linux** support personnel to troubleshoot issues related to **Red Hat Linux** satellite server regarding updates.

**Environment:** Red Hat Enterprise Linux 4.x/5.x, IBM AIX 5L 5.x, Sun Solaris 8/9, SUSE 9/10, Dell Power edge 1650/1750/2950, System p Series 570/590/630/670/P690, HP 460C

**Client: Verisk, Kathmandu Nepal Duration: Sept 2007-Aug 2009**

**Designation: Jr. Linux Administrator**

**Responsibilities:**

* Patching, troubleshooting and **KERNEL**tuning.
* Worked as Unix/**Linux** Administrator.
* Maintaining **Red HatEnterprise Linux**4.x/5, **CentOS** on Intel based servers.
* Installation and configuration of **RedHat Linux** and Windows NT servers.
* In-chargeof user account Administration.
* Installed and configured **Patches** and Packages.
* User account management and support.
* **Performance Monitoring**& System **tuning (Kernel Tuning).**
* Involved in managing local disk devices.
* Responsible for configuring real time backup of web servers.
* Log file was managed for **troubleshooting** and resolving errors.
* Responsible for reviewing all open tickets, resolve and close any existing tickets.
* Trouble shooting the system and end user issues.
* Involved in documenting of Linux and Windows environment and configuration details.

**Environment:** Red Hat Enterprise Linux 3, 4, 5 AS, 2.1 ES,CentOS 2/3.1, NT 4.0, Windows 2000, MS SQL Server 2000/6.0, Bash Shell, Microsoft VC++, Apache WebServer, Tomcat

**Education: Tribhuvan University, Bachelor's of Science , 2009**