**HARISH**

**SUMMARY:**

* 7+ Years of experience in **RedHat Linux** / **Solaris**, **Windows**, **Unix Administration** on Sun, HP Servers for Mission Critical and Enterprise applications.
* Installation, administration, implementation, testing and maintenance of complex and heterogeneous networks consisting of **Linux (Red Hat), Sun Solaris 8/9/10, SuSE, Windows.**
* Installation, Configuration and Maintenance of **Samba, Apache Tomcat, Web Sphere and Jboss servers in Sun Solaris and Linux environment.**
* Hardware configuration, installation and management on **Sun, HP servers and Workstations.**
* Configured ILOs and Console connections for **HP and SUN servers**.
* Experienced in system administration, System planning, co-ordination and group and user level management.
* Configuration, implementation and administration of **NFS, NIS, DNS, and Sun Cluster and LDAP on Solaris and Linux environment.**
* Understanding and troubleshooting skills with networking communications and protocols such as **TCP/IP, NFS, DNS, SMTP.**
* Ability to perform firmware and operating system **patching.**
* Expertise in creating and managing **Logical Volume Manager** in **RedHat Linux.**
* Expertise in **Installation**, Configuration of **Package and Patch Management**.
* Experience with **Blade Logic** project implementation for 2000+ servers including OS patching, provisioning custom reporting Development, BL packaging, Compliance reporting
* Experienced with installation, configuration of **RAID volume management**using Veritas Volume Manager and Solstice disk suit on Solaris Disk across & Quotas.
* Experience in **Disaster Recovery and Planning**.
* Good understanding of error logging subsystem and Performance Monitoring tools like **vmstat, iostat, netstat.**
* Extensively worked on Automatic Scripting using **shell scripts (bash, awk, sed)**.
* Experience with development tools and version control tools such as **CVS, Clear Quest, and Perforce.**
* Tasked with both **virtual and bare metal server** builds
* Experience on backup and recovery software like **Veritas Net backup 5.1 and 7.5** on **Linux environment**.
* Expertise in **TSM, Data domain and Falconstor** in large scale enterprise backup environment.
* Handling and generating tickets via the **Remedy ticketing tool**.
* Strong understanding of **LAMP stack** and support of web applications and supporting components such as apache/tomcat/varnish/memcache.
* Knowledge of **Routers, Switches, Hubs, Firewalls, LAN, WAN Intranet, Internet.**
* Experienced in Monitoring system Access and Monitoring servers by using tools like Tivoli, HP open view and **Nagios**.
* Experience with configuration management and automation software such as **Puppet** and **Chef**.
* Hands on experience in Puppet deployment, dashboards configurations and Puppet DB
* Experience in passing parameters to **Control M** job and creating job dependencies and Alerts.
* Maintained high availability of data **using MC/Serviceguard, VERITAS cluster Server** and **Sun Cluster.**
* Excellent **Project Management** experience.
* Experienced in **Source Control System** knowledge - Git/Jenkins.
* Experience in various file system management using **VxVM, SVM, LVM and ZFS**; and RAID configuration.
* Systems and network Planning and Administration.
* Backup and Restore Management like **Veritas backup**, **Tape library** and **Disk library and EMC.**
* Understanding of security best practices and forensic techniques, eg, **tcpdump, Wireshark, iptables, ipset**.
* Good Working knowledge on the **Snapshot** technology in taking the backup snapshot copies of the different volumes. Scheduled backup and retention policies.
* Excellent verbal communication skills and strong documentation skills.
* Capability to learn and adapt quickly.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Operating System** | Solaris 10/9/8, HP-UX (10.20, 11.00, 11.11, 11.23), IBM AIX (4.3, 5.1L, 5.3L), RedHat Linux (AS/ES 3/4/5), VMware ESX 4.X, Windows NT 4.0/2000/2003/XP/vista |
| **Hardware** | Sun Fire 280R/V480/4800/3800/12K/15K, TSeries, MSeries Server, Sun Enterprise 6500/5000/450/420R, , HP 9000 K,L,N class server, IBM RS/6000, pSeries, Xserve’s, HP/IBM/Blade Servers. |
| **VMware** | VMware Infrastructure Client and VMware ESX Server 4.x/3.x/2.x. |
| **Network Protocols/Services** | DNS/Bind, Samba, TCP/IP, NFS, Telnet, DNS, LDAP, SSH, DHCP, NAT, LAN, WAN, ARP/RARP, FTP/TFTP, ifconfig, route, netstat, xinetd, HTTP. |
| **Storage** | SAN EMC Symmetrix 800/ DMX1000, 2000 & 3000, EMC CLARiiON 500, 600, 700, NetApp NAS 2000/ 3000 series |
| **Databases** | MySQL, PostgreSQL, SQLite, DB2, Oracle |
| **Web /Application Server** | Apache Tomcat, WebSphere, Weblogic |
| **Automation Tools** | Puppet, Chef, Kickstart |
| **Mail Servers** | SMTP, POP, IMAP, qmail, Sendmail, Postfix |
| **Cluster** | Veritas Cluster Server, MC/Service Guard, Sun Cluster |
| **Languages** | C, C++, Java, Shell, awk, Perl, Python |
| **Security** | SSH, SSL, IPchains, IPtables, Tcpdump, Wireshark, Tripwire, port scanners |

PROJECT EXPERIENCE:

**TIAA-CREF, Raleigh NC Dec 2014 – Till Date**

**Unix/LINUX Administrator**

Responsibilities:

* System administrator responsible for maintaining Linux/Unix operating systems such as **RHEL**, **UNIX**, and **Solaris**servers.
* Providing production support for multiples applications residing on **Linux and UNIX environments**. Making sure **Zero-Down time** for enterprise critical applications by raising **outages**, **escalations** whenever necessary.
* **Asset Tracker plugin as the Systems of record .DNS, DHCP, Kickstart and puppet tied into the system.**
* **Data Center Migration** support for **CX, DMX attached hosts.**
* Raised, handled and closed multiple **Change Management** and **Trouble Management** tickets accordingly with Standards.
* Performed and reported **daily health checks** for multiple application servers.
* Conducted Annual **Disaster Recovery** exercises for applications on different platforms.
* Add, remove and resizing Logical volumes using **LVM** in Linux and implementing softwareRAID at installation time.
* Regular disk management, partitioning according to the requirements, creating new file systems or increasing existing ones, managing file systems and adding virtual swap space.
* Define/setup network protocols, Network File Services **(NFS)**,and Network Information Services **(NIS)** in Linux Environments.
* Installed and configured **VxVM, VxFS** and **VCS** on Linux Servers.
* Experience in installation, configuration and administration of **RHEL** 6 and **Suse**10/11 on both private and public clouds
* Creating VM instances using **VMware/ESX** on Linux and Sun Servers and migrating applications from others servers.
* Configure and Implementation of **Samba v3.0** to help printing and file sharing in the mixed environment.
* Maintenance level upgrades and software administration **RPM installation** on Linux**.**
* Acquiring & Initializing **LUNs** in clustered environments on **Unix Servers**.
* Scripting and task automation by **Crontab** using **Bash, and Korn shell scripting**.
* Created **Bash Shell** scripts to monitor system resources and system maintenance and Performed administrative tasks such as System start-up/shutdown, and Backup strategy and scheduled cron jobs for job automation.
* Performing **O/S and kernel upgrades** on Linux servers.
* Application supporting ftp ids creation on regular basis.
* Installing, configuring and troubleshooting VMware **View**.
* Providing Knowledge Transfer to new recruited Team Member.
* Performed host based SAN migration on Standalone and Cluster Linux servers
* Accessing and controlling **LPARS** using **HMC**
* Troubleshoot backup issues, Perform manual backups & restore using **VERITAS Net Backup.**
* Document and maintain the inventory using asset management techniques.
* Supporting servers on **24x7**bases on different platforms.

Environment:RHEL4.x/5.x/6.x,AIX 6.1 Solaris 11, Suse 10/11HP BL460, DL 380 Dell and IBM X Series,IBM p5, p6, and p7 hardware p670, p520, p550, p570, p750 - P5 P6 P7 -Power8 SAN, LVM, RPM, , BMC patrol, , VERITAS Net Backup, Shell and Perl Scripting, BMC Remedy 8.1, 8.1.0x

**Liberty Mutual, Dover NH Apr 2012 – Nov 2014**

**Unix/Linux Systems Administrator**

Responsibilities:

* Building, administering, monitoring and troubleshooting **Windows, RHEL4.x/5.x/6.x,AIX 6.1, HP BL460, DL 380 Dell** and **IBM X Series.**
* Responsible for building and configuring **LAMP**&**LEMP** (L: Redhat, CentOs, Ubuntu; A: Apache, Nginx ; P:PERL and PHP M: MySQL, Oracle) and Java (Jboss) Web servers using for internally developed applications using established build standards
* Linux system backup administration/monitoring using **EMC Networker 7.5.6**. and **Backup Exec 2012.**
* Worked with Storage Area Networks **(SAN)** which consisted of **Hitachi** and **EMC storage.**
* **Install and configure new servers using kickstart.**
* **Worked on Integration of Foreman with Puppet.**
* **Used advanced puppet techniques to puppetize.**
* **Experience managing systems and application using tools like puppet.**
* **Automated the environment using puppet from scratch level.**
* Involved in maintenance of systems including patching, setting up Print servers, Configuring File systems, using **LVM/Veritas** on **HPUX/Linux/Sun Solaris OS**, involving **SAN** environment
* Add, remove and resizing Logical volumes using **LVM** in Linux and implementing softwareRAID at installation time.
* **Data Center Migration** support for **CX, DMX attached hosts.**
* Experience with SAML, HTP fed, web application proxy.
* Regular disk management like **adding/replacing** hot swappable drives on existing servers, partitioning according to the requirements, creating new file systems or growing existing one over the hard drives and managing file systems and adding virtual swap space.
* Define/setup network protocols, Network File Services **(NFS)**,and Network Information Services **(NIS)** in Linux.
* Write and publish **Bash** and **Perl** scripts to facilitate the automation process and provisioning of a variety of Virtual Machines and Virtual Appliances, such as **RHEL**, **CentOS** and **Debian**.
* Responsible for automating build and monitoring tasks across **AWS** and **Rackspace** using a variety of tools such as **MongoDB**, **NginX**, **Jenkins**, and **JIRA**.
* Deployment and implementation of **Tivoli, SRM, BMC Patrol.**
* Utilized Remedy for **change management**, **incident tracking**, and process documentation
* Installed and configured **VxVM, VxFS** and **VCS** on Linux Servers.
* Installation and configuration of Web Application servers like **Apache**, **Tomcat** and **Web logic**.
* Experience in installing, configuring and troubleshooting **VMware** View Composer and View Connection Manager to make Virtual Desktop Infrastructure efficient and to simplify desktop administrative management tasks. Responsible for successfully upgrading all hosts and **vCenter** servers to vSphere 4.1
* Configure and maintain virtual servers environment using **VMware ESX host, VCenter, VSphere**.
* Configure and Implementation of **Samba v3.0** to help printing and file sharing in the mixed environment.
* Maintenance level upgrades and software administration **RPM installation** on Linux using **yum.**
* Joined Linux server to Centrify zone, Adding users to Centrify and Mapped **AD** user to **Linux** server using **Centrify**.
* Worked on **Solaris 11** container technology, configured separate zones for various applications.
* Upgraded Solaris 8 to Solaris 9 and 10. Configuring **SAN Sun Storage**. Through Brocade Silkworm Switches. Fiber Optics Switch for redundancy with multi-path.
* Evaluate, install, test, configure, maintain, tune, and troubleshoot **Solaris** 9/10/11, **Red Hat Linux** 5, AIX 6.1/5.3 operating system software and third party commercial off-the-shelf (**COTS**) products with primary responsibility being for the UNIX operating systems.
* Acquiring & Initializing **LUNs** in clustered & standalone environments.
* Managing/Administrating **ESXi** 4.1, 5.1 Hosts and Clusters on **vCenter** Server 5.1. Using **vSphere** Client 5.1, **VMware** Site Recovery Manager.
* Installation and configuration of Webserver (**Apache** 2.2.17), **MySQL** 5.5 and **PHP** in a **LAMP** stack.
* Management of **Veritas Volume Manager (VxVM), Zettabyte File System (ZFS) and Logical Volume Manager.**
* Provide drill down reporting for application teams to use in monitoring their application resource usage/performance using **Nagios**.
* Wrote **Shell** and **Python** scripting to automate the regular tasks like removing core files, taking backups of important files, file transfers among servers.
* Install Cluster software and configured the system for **failover** of databases and applications.
* Wrote scripts in **K**-**Shell** and **AWK** programming language to automate jobs.
* Modify and write **NetBackup** scripts to automate process.
* Worked on configuring **Puppet** master servers and installing **Puppet** client on Linux servers.
* Involved in automation by using **Puppet** and **Chef**master running on RHEL with around 100 Clients.
* Monitor and ensure that backup server maintenance tasks are successful on a daily basis, correcting any errors when necessary.
* Configured **Web Sphere** Deployment Manager and Application Server profiles in clustered environment to utilize the advantages of **failover** and **loadbalancing** in multi-node environment.
* Experience in applying Fix Packs, Refresh packs and Cumulative fixes to upgrade the existing **WebSphere** versions.
* Installation, Configuration and Maintenance of **Weblogic**. Installed and Configured apache, iPlanet and Plug-ins for **Web Logic**.
* Experience working with PowerVM / Advanced Power Virtualization technologies.
* Experience working in **Cloud** infrastructure using **Hitachi**/**EMC SAN**
* Implemented **VDI** (Virtual desktop infrastructure (VDI) technology using **VMware VIEW**
* Managed **Control M** Scheduling in Oracle to provide administrative level 2 support.
* Addition and configuration of **SAN disks** for LVM on Linux, and Veritas Volume Manager and ZFS on Solaris **LDOM**s.
* Experience in implementation Intrusion Detection System: Tripwire, Snort, Lids.
* Performed host based **SAN** migration on Standalone and Cluster Linux servers
* AIX 6.1 patching and OS disk migration
* **Oracle RAC, NDM, WebSphere**installation and support on **AIX and Linux Servers**

Environment:RHEL4.x/5.x/6.x, Solaris 9/10/11, HP BL460, DL 380 Dell and IBM X Series, IBM Filenet P8, IBM p5, p6, and p7 hardware p670, p520, p550, p570, p750 - P5 P6 P7, SAN, LVM, Samba, RPM, Tivoli End Point, ESM, BMC patrol, Oracle RAC, NDM, WebSphere, EMC Networker, ESX host, Shell and Perl Scripting

## EMC---Boston MA Jan 2010 – Mar 2012

## Unix/LINUX System Administrator

Responsibilities:

* Installation, Configuration and upgrade of **RedHatLinux (2, 3, 4, 5), SUSE, Solaris 10/11, HP-UX and Windows** Operating Systems.
* **User Administration**, management and archiving.
* Configuring **NFS, NIS, NIS+, DNS, Auto Mount & Disk Space Management** on Linux **SUN Servers**.
* Installed and Configured **LAMP** Server (Linux Redhat, CentOS, Apache, Jboss, MySQL Oracle, and PHP Perl).
* Monthly security **patches** deployment on 200+ Linux test and production servers.
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using **Logical Volume Manager (LVM)** commands.
* **Install and configure new servers using kickstart.**
* **Worked on Integration of Foreman with Puppet.**
* **Used advanced puppet techniques to puppetize.**
* **Redesigned and redeployed the Nagios implementation. Nodes automatically added/removed themselves via Puppet.**
* **Asset Tracker plugin as the Systems of record .DNS, DHCP, Kickstart and puppet tied into the system.**
* Raised, handled and closed multiple **Change Management** and **Trouble Management** tickets accordingly with Standards.
* Expertise in performing firmware and operating system **patching.**
* Monitoring of network services (**SMTP, POP3, HTTP, NNTP, PING**) etc.
* Responsible for **building / maintaining** a production environment
* Checked and done the patch **upgrade** and Firmware upgrade for each **migration server** as and when required.
* Experience in Configuring and Managing **Virtual Disks, Disk Mirrors**&**RAID** Levels.
* Worked with **NAS** Storage with HBA card configuration.
* Created and managed file systems with **SVM** and **ZFS.**
* **SuSe** Linux support on an "as needed" basis.
* UNIX based servers and services to authenticate against **NovelleDirectoryLDAP** based naming service.
* **Data Center Migration** support for **CX, DMX attached hosts.**
* **Cloud computing**: Worked with **OVF "Open Virtual Machine Format"** supported tools **Virtual Box, RedHat Virtualization (XEN), and VMware Workstation.**
* Excellent Knowledge in **Capacity** Planning and Performance **tuning**.
* Activities include user administration, startup and shutdown scripts, **crontabs**, file system maintenance and **backup scripting** and automation using **shell scripting** (BASH, KSH) and **Perl** for RedHat Linux systems
* Experience in **CFEngine** automation software.
* Used **CVS, VTFS, Perforce** on UNIX and Windows environment.
* Installed and Maintained **MYSQL**, **Mongo DB** database servers in a Linux Box with SSL.
* Experience with **VMware Virtualization** using ESX hypervisor of **Vsphere 4.0**.
* Installation, Configuration and Maintenance of **Samba, Apache Tomcat, Web Sphere and Jboss servers in AIX, Sun Solaris and Linux environment.**
* Management of all SAN storage systems, **Hitachi**, **EMC** and performance tuning.
* Deployed **Puppet**, Puppet Dashboard, and PuppetDB for configuration management to existing infrastructure.
* VMware **vSphere** administration and configuration in a large enterprise environment.
* Setting up **JBoss** cluster and configuring apache with JBoss on RedHat Linux. Proxy serving with Apache. Troubleshooting Apache with JBoss and Mod\_jk troubleshooting for the clients.
* Installed Oracle, **Dev framework**, Jboss and several other policies on several production servers Via **HPSA.**
* Experience with **Multipath** Technologies.
* Maintain & troubleshoot Storage Disks from **HITACHI**, and **EMC Disk arrays.**
* Experience in **Active directory configurations** and support.
* Administered **Veritas** cluster server that included adding, deleting and modifying resources for multiple environments.
* Experience with setting up **Linux servers** for **Oracle Real Application Clusters** and configuring SAN based devices for raw and File system mount points.
* **Troubleshooting** and analysis of hardware and software failures for Redhat Servers, Backup Servers and work with different vendors (HP, EMC, Oracle, Redhat) to resolve the issue.
* Experience in storage administration support with **EMC Symmetrix / DMX, Clariion, NetApp NAS filer and Brocade / Cisco Fiber Switches** for **zoning purposes.**
* Troubleshooting **host-based connectivity** issues related to **EMC** software like **PowerPath, Navisphere, ECC client software** and **third-party HBA's (Emulex and QLogic).**
* **Emulex and QLogic HBA cards** installation and configuration of the host servers.
* Worked on Performance Tuning and **Monitoring IBM FileNet P8** Components.
* Extensively worked on Installation of Single-Server and Distributed **IBM Filenet P8** Platform System.
* **Windows 2000/2003 and 2008 Server** Active Directory Administration
* Expertise in Performance Monitoring and Performance Tuning using **Top, prstat, sar, vmstat, ps, iostat etc.**
* Scheduled run jobs in **Autosys**, **at**, and **crontab**. Analyst productions and support over 100 users. Maintain disk space, delete core file and clean old files system every month end.
* Expertise in creating and managing **Logical Volume Manager** in **AIX, HP-UX** and **RedHat Linux.**
* Server Consolidation and **Migration** of Applications onOracle Enterprise and Java Applications.
* Monitoring UNIX batch processes and scheduling systems on **Autosys**.
* Experience in building **Production Servers** and validation for new build releases.
* User, Group creation; Monitoring and maintaining logs for system status/system health using **Nagios**, **Top**, system monitor.
* **Send mail** configurations and administrations, securing the mail servers.
* Expertise in Volume management, Disk Management, software **RAID** solutions using **Veritas Volume manager**.
* Creating **File System, managing & checking data consistency** of the **File System**.
* Setup and configure **Veritas NetBackup** 5.x, 6.x and 6.5x **Net Backup server / client & tape libraries.**
* **Monitor Modify** and **Optimize NetBackup activity,** backup schedules and reporting to proactively avoid issues.
* **Troubleshooting** hardware, software and operating system related errors on Linux including Hardware **Maintenance** and **Up gradation**.
* Installation of **Packages** and **Patches** for **AIX, Solaris 8/9/10, RedHat Linux 4/5, HP 11.X**.
* Disk and file system management through **Veritas Volume Manager / Veritas File System** and **Solstice Disk Suite**.

**Environment:**RedHat (2,3,4,5) , VMware ESX 4.x and SUSE Linux, Solaris 8 / 9 / 10, Sun Enterprise Server, HP 9000 K, L, N Class Server, IBM Filenet P8, IBM RS/6000, pSeries Server, Windows 2003/2008 Server, NetBackup 5.0, Veritas Volume Manager 4.x/5.0, SAN EMC Clariion CX 700/ CX 600/ CX 500, EMC DMC 2000/ 3000, NetApp NAS 3000.

# RELIANCE PVT LTD - Hyderabad, IND Jan 2008 – Dec 2009

# LINUX ADMINISTRATOR

Responsibilities:

##### Installation, Configuration & Upgrade of Linux, Solaris, AIX, HP-UX, Linux operating systems.

##### Experience in patching with live upgrade/standard install cluster and applying firmware.

* Experience with **VMware Virtualization** using ESX hypervisor of **Vsphere**.
* Configured Solaris **Jumpstart** Server. Maintained Server 6.0. Backup data of Servers using **VERITAS Net Backup.** Maintained Security of the Solaris Servers.
* Performance monitoring and Tuning using **top, prstat, SAR, vmstat, PS, iostat** etc.
* **Shell Scripting** to automate tasks on Solaris and Linux and automated jobs using **Crontab**.
* Configuration of **VERITAS Cluster Server**, Service Guard from the scratch and maintained service group/packages for failover and redundancy purpose.
* Worked on cronolog in Linux servers for managing the logs of the web servers and performed automation using shell and perl scripts.
* Extensively worked on Administering **FileNet P8**(Process Task Manager, Application Engine, Content Engine, Process Engine)
* Worked on **high performance** applications in a clustered environment.
* Involved in Implementing and Administrating enterprise level data backup and recovery.
* Implemented Backup solution for the Network
* Installed and configured file and Application servers running on Sun servers
* Configuring and maintaining network services such as **LDAP, DNS, NIS, NFS, Web, Mail, FTP**
* Implementation of **RAID 0/1/5** for creation of logical volumes using **VERITAS Volume Manager** in SAN Storage Area Environment
* Troubleshooting and analysis of hardware and software failures for various servers (**core dump and log file analysis**).
* Worked with storage team to configure **NAS**.
* Managed Network troubleshooting applications **TCP/IP** including **Ethernet, IP addressing & Sub netting, routing.**
* Provided 24x7 on call and remote support for UNIX Production Problems and responding to users' tickets from **Remedy**.
* Worked on creating user accounts, user administration, local and global groups on Solaris platform
* Created User Accounts and Network Shares. Configured SUN Workstations as Domain Clients.
* Administrated **NFS, NIS, DHCP** and **DNS Samba** services running on **AIX,** Sun Solaris and **Red Hat Linux.**
* Worked with Storage team to configure EMC SAN, NAS and iSCSI configuration.
* Managed Users for **AIX**, Solaris, **HP-UNIX and Linux Servers** and assigned rights to access network resources.

Environment:RedHat Linux, Solaris 9/8/10, HP-UX 11.0, VMware ESX 4.x, Sun Enterprise 450/420R/250 Servers, Ultra Enterprise 2/1 Servers, SPARC server 1000, SPARC server 20 Enterprise Servers, SPARC server 1000/20, HP 9000 K,L,N class server..