**HARI POKHREL**

**Linux System Administrator/Engineer haripokhrel38@gmail.com**

**Visa: Green Card #6822313820**

**Professional Summary:**

* 7+ years of IT industry experience as **Linux System Administrator/Engineer** and **Production Support** of various applications on Red **Hat Enterprise Linux, Ubuntu, AIX, CentOS, Fedora**, Windows environments, and VMware VSphere.
* Worked on **Linux server virtualization** by creating Linux VMs for server consolidations.
* Experience in Linux LVM (Logical Volume Manager) for **extending Linux partitions** on demand.
* Experience in **Installing, upgrading and configuring Red Hat Linux 5.x, 6.x and 7.x** using Kickstart Servers.
* Experience in configuration of **NIS, NIS+, DNS, DHCP, NFS, LDAP, SAMBA, FTP**, remote access, security management and Security trouble shooting skills.
* Worked on **Data-Center operation and maintenance** across UNIX and LINUX platforms.
* Experience in **creating and managing user accounts, security, disk space and process monitoring** in Red Hat Linux.
* Experience in **writing shell scripts** to automate the administrative tasks and management using cron and daemons.
* **Configured Linux servers** to use Linux cloud for databases.
* **Developed customer required applications** using shell scripts for easy monitoring of Linux servers.

**Operating Systems:**

* Experience in **Red hat Linux 6.0 and 7, AIX, SUSE 10 and 11, HPUX, CentOS, Ubuntu**.

**Administration:**

* Good knowledge on different types of installations using **CD/HDD/NFS** as well as **Kickstart methods**.
* Work experience in patching **Linux systems** by RPM packages.
* Installed, Upgraded, Configured Linux systems for production development and test environments.
* Worked with Users, Groups, Special Permissions, different file systems, Cron jobs, Yum repos and RAID level configuration.
* Provided on call support for applications by troubleshooting Linux based environment.

**Network & Security:**

* Good understanding of **OSI Model, TCP/IP** protocol suite (**IP, ARP, TCP, UDP, SMTP, FTP and TFTP**).

**Application Servers:**

* Installation and configuration of **JBoss, Web Sphere Application** Server on Linux boxes.
* Admin console management, checking logs, application deployments, **JDBC** configurations, cert configurations, cluster management, Bus & User management, messaging services & troubleshooting.

**AWS:**

* Working knowledge with **AWS – Amazon Web Services** for application migration from hard structure to **Amazon Cloud.**
* Managing application in **AWS cloud.**
* Knowledge on code commit and code deploy.
* Experience developing and deploying analytics within a heterogeneous schema environment.

**DevOps:**

* Excellent command over chef and puppet to deploy code on multiple servers at a time.
* Experience writing **puppet manifest, modules** to perform various task from automation of application to installation of OS.
* Experience working with various **DevOps** tools like **SVN, GIT, Jenkins, Docker.**
* Experience in different scripts like **python, ruby** to write required code and implementing through **puppet**.

**Project Management:**

* Good understanding over **Software Development Life-Cycle (SDLC) and Agile development methodology**.
* Providing support to applications in production by tracking production problems and troubleshooting them to sustain application in production.

**Education:**

* MS in Software Engineering, Stratford University, USA
* BE in Computer Engineering, Nepal

**Technical Skills:**

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| Platforms : | Red Hat Enterprise Linux 4/5/6/7, CentOS 5/6/7, Ubuntu, X86/X64 platforms, Windows 2003, 2008, Server, Win 7, IBM AIX, Oracle Enterprise Linux. |
| Languages : | BASH, HTML, PYTHON, C, C++,C#,Java |
| Hardware : | HP ProLiant DL580 G6, DL380 G6, DL980 G7, Dell PowerEdge 2850, 2950, Intel X64 based servers.  R820, R520, R620, HP Blade Servers, IBM RS/6000, M80, S80, H70, H80 Pseries 570, 590, 595, 630, 650, Sun Fire 4500, V480, Backup Devices such as tape library and tape drives. |
| Databases : | Microsoft SQL server 2008/2012, MySQL server, Oracle 9i/10g/11g. |
| Web & Application Servers : | DNS, WebLogic, JBoss, WebSphere. |
| Virtualization : | VMware, Virtual Box, XEN, KVM, VSphere Client. |
| Protocols : | TCP/UDP, IPv4, IPv6, SSH, DHCP, DNS, NFS, CISCO Switches/Routers/Access Points. |
| Cluster : | Red hat Cluster, Veritas Cluster and IBM Xcat. |
| Storage Devices : | VVM 3.1/3.2, RAID Manager, NAS, SAN. |
| Other Tools : | OpenStack, AWS, Wireshark, Oracle Enterprise Manager, Jenkins, Nagios, Netcool, Splunk, Symantec NetBackup, TSM, NIS, LDAP, TOAD, Putty, MySQL work bench. |

**Professional Experience**

**Linux System Administrator October 2015 to Present**

**UPS- Atlanta, GA**

**Environment:**Centos 5.7/6, Red Hat Linux 5/6/7, Ubuntu 12.04/14.04, Fedora 20/22/23, SAN, NFS, VMWare, DELL PowerEdge 2850, 2950, Tivoli Storage Management, Win 2008/2012, MongoDB, SUSE Manager, Dell Pseries 630, 650, AZURE, Amazon Web Services (AWS), HP Quality center, Oracle 10g/11g, Oracle Enterprise Linux.

**Responsibilities:**

* Worked as **Linux administrator/Engineer for Linux** servers running different business applications.
* Worked on reliability, manage liability and performance improvements for **Linux enterprises**.
* Receive the **TADs (Technical architectural diagrams)** from web engineers.
* Building the **JVMs** as per the **TAD structure**.
* Configuration of all data sources, certificates as per the **TAD**.
* Used configuration management tools such as **Puppet and satellite**.
* Create **Opsware** implementation records to populate server specs **to kick start** file for **PXE boot process**.
* Worked on Installing and configuring **Puppet** and creating **manifests** for new servers and pushing them to servers using modules.
* Tested **Puppet Enterprise** in lab environment and successfully set up node communication.
* Used **Puppet** to deploy code on multiple servers at a time.
* Deploy and monitor scalable infrastructure on **Amazon web services (AWS)**& configuration management using **puppet.**
* Deployed **Puppet, Puppet Dashboard, and PuppetDB** for configuration management to existing infrastructure.
* Experience in version control using **SVN, GIT and GITHUB** and **continuous integration** management using **Jenkins.**
* Automated server provision to modify server parameters and enable bulk server provisioning.
* Experience in Installation, Configuration and Troubleshooting of **Tivoli Storage Manager (TSM).**
* Installation and configuration of database systems e.g**. Oracle10g in RHEL**, **Centos** environment.
* Create / Monitor for active tickets periodically in the **Global Service Desk** for any new tickets or existing ones.
* Installed and configured new hardware and memory and applied patches as needed.
* Used **Logical Volume Manager** to create disk groups, volumes, volume groups, and **RAID’s** and used tools for backup and recovery.
* Monitored system performance using **sar, prof, vmstat, iostat, netstat, Nagios**.
* Worked with open source system network firewall securities like **iptables**.
* Good knowledge in writing **Shell scripts** to automate the administrative tasks using cron.
* Configuring and implementing **DHCP, DNS, SAMBA** installation and configuration on different Platforms in heterogeneous Network environment.
* Proficient in Networking and configuring **TCP/IP, DNS, NFS, NIS, NIS+, SAMBA, LDAP, SSH, SSL, SFTP, SMTP, SNMP.**
* User, Group management for all the **UNIX** servers and also used on **Linux**.
* Configuring **SUDO** and granting root permission to **Backup Admins/DBAs** to perform root related activities.
* Create / Change passwords for users needing access to servers for specific uses.
* Creating and modifying Standing Operating procedures for the team.
* Modifying/ Writing scripts in **Bash and Korn shell** for optimizing day to day administration.
* Automated system management tasks like user account creation, file system size monitoring, monitor system resources and system maintenance using Shell scripts.
* Installed and configured **JBoss application server.**
* Configured **Linux Kickstart** on multiple servers for network installation.
* Modify kernel parameters and system settings prior handing it over to appropriate teams.
* Troubleshoot and work with appropriate teams for HP / DELL hardware for network/storage issues.
* Prepared technical documentation for all set up and configuration steps.

**LINUX/Unix Administrator August 2014 to September 2015**

**IBM-Dallas, TX**

**Environment:** RHEL 5/6, HP servers, HMC, EMC VMAX, EMC VNX VG8, IBM DS8300, IBM DS8600, IBM TSM, , LINUX Virtual machines, VMware, Cassandra, Perl Scripting, LAN, LDAP, TCP IP, CITRIX and mobile applications, Oracle RAC, Oracle ASM and ETL applications, WebSphere, Kickstart, Kerberos, Active Directory, Jenkins.

**Responsibilities:**

* Installation, upgrade, and configuration of **Red Hat Enterprise Linux 6.x,** and **IBM AIX 6.X** operating systems on large distributed environment.
* Installation of **Red Hat Enterprise Linux 6.x** over the local network using **Kick-start** installation.
* Set up preconfigured **RHEL5.x** and **6.x** on local and in the cloud on **AWS EC2**.
* Provisioning of **RHEL5.x/6.x** servers via **AWS** cloud.
* Deployment of Linux configuration and its updates via **puppet**.
* Worked with Engineering team to evaluate the adaptability and compatibility of automation tools such as **puppet**.
* Storage and update of pre-configured **VM images**, applications, and tools in **Docker** to reduce the downtime and maintain high availability.
* Assisted the release management team on various software build updates and maintained continuous integrity/revisions of the build codes via **Jenkins** easy debugging and troubleshooting.
* Exposure to common DevOps tools like **GIT**, **Maven** and **Jenkins**.
* Automation of Centralized configuration management of essential services.
* Administration and support on **Red Hat Enterprise Linux 5.x/6.x.**
* Implemented Server consolidation and virtualization via **VMware** virtual infrastructure such as **VMwareESX**, **VMware Virtual Center** and **Virtual SMP**.
* Hardware and OS monitoring via **Nagios**.
* Performed System Backup using **Veritas Netbackup** for **Enterprise wide** backup and recovery and to centrally manage storage resources through a single console.
* Backup and restoration of **Database** servers using **SQL** scripts.
* Networking services configuration such as **DNS, SSH,** and **DHCP** in **Red Hat Linux** servers.
* Implemented and monitored clustering on **IBM p series** servers using **HACMP 5.2**.
* Applied new **patches** and **packages** for **AIX** and **Red Hat Linux** Servers and handled issues arising out of them.
* Maintained availability, increased capacity and performance of production machines by upgrading their hardware and firmware.
* Attached **LUNS** provided by the Storage team to the required Unix/Linux Servers.
* Created and managed physical volumes, volume groups, and logical volumes.
* Extended logical volumes based on the user and group requirements online using **Logical Volume Management** (**LVM**) commands.
* Implemented Web Application Servers like Oracle Web Logic in Red Hat Linux environment respectively.
* Monitored **failovers** in **HACMP** cluster environment.
* Created users; enabled user permissions and maintained User & Group quotas on **Solaris** and **Linux** servers.
* Implementation of **Shell scripting** to automate the administrative tasks using **cron**.
* Exposure to **KVM**s while running Linux images in multiple virtual machines.
* **Kernel parameters tuning** based on the application/database requirement.
* Performance issues troubleshooting in **IBM AIX** and **Red Hat Linux** servers.
* Created project report and wrote technical document for various projects.

**Linux System Administrator October 2012 to July 2014**

**Wal-Mart - Bentonville, AR**

**Environment:** RHEL, AIX, SLES, DNS, DHCP, Quos, Samba, SSH, IPSec, Cisco, NIS, Bash, Shell

**Responsibilities:**

* Configure all **Linux systems** to authenticate to **Windows Active Directory** using **Kerberos and LDAP**.
* Configured our Network to integrate Windows systems with Linux systems including **SAMBA sharing, Print servers, and Router configurations.**
* Experience designing and implementing load balancing solutions with **F5 load balancers** and Cisco load balancers (CSS and ACE)
* Worked on reliability, manage liability and performance improvements for Linux enterprises.
* Install/Configure **VMware ESX 3.5** environment with a **NetApp Backend**.
* Configure and manage implementation of **Samba, PHP projects, DNS, LDAP, Kickstart, IPTables Firewall, NFS, NIS, SSH, Open Source Apps, and User Administration.**
* Used configuration management tools such as **Puppet and satellite.**
* Implemented **Active Directory** for user and computer management and created group policies.
* Configured Windows DFS to manage all shares.
* Installed and configured **DNS.**
* Responsible for all **Linux and Windows** systems backups using Backup Exec.
* Configured network infrastructure using **VLAN and load balancers**.
* Administer and maintain all servers running Linux/Windows to maintain **a 24x7** uptime environment.
* Oversaw maintenance of file systems, created a schedule for periodic processes, monitored and reported on resource usage, maintained communication with users regarding Linux/Windows systems, and made management aware of training requirements.
* Measure, monitor and report systems capacity usage, create and adjust plans as required based on future demand and historical input.
* Implemented an instant messaging solution using **Openfire and Psi.**
* Responsible for securing all Linux servers using **IPTables, SSH, Syslog, and Log watch**.
* Configured **Kickstart** to streamline all **Linux** installations.
* Responsible for Process administration (i.e. monitoring processes using PS utility, signaling a running process using KILL and KILLALL command, monitoring processes and system load using TOPAS, VMSTAT, SVMON and UPTIME utilities, monitoring logs, scheduling processes using CRON utility and ZENA.

**Linux System Administrator January 2009 to August 2012**

**Capital One -Plano, TX**

**Environment:** Red Hat Linux (RHEL 4/5), Logical Volume Manager, Global File System, Red Hat Cluster Servers, Oracle, DNS, NIS, and NFS.

**Responsibilities:**

* Installation of patches and packages using **RPM and yum in Red hat Linux**.
* Created and modified application related objects, created Profiles, users, roles and maintained system security.
* Responsible for setting up cron jobs scripts on production servers.
* Installed and configured **SAMBA** server for Windows and **Linux** connectivity.
* Monitored System Activities like CPU, Memory, Disk and Swap space usage to avoid any performance issues.
* Worked on reliability, manage liability and performance improvements **for Linux enterprises**.
* Responsible for writing/modifying scripts using bash, ksh, and python for day-to-day administration.
* Modified Kernel parameters to improve the server performance **in Linux.**
* Creation of Logical volumes (LVM) for **Linux operating systems**.
* Involved in design, configuration, installation, implementation, management, maintain and support for the Corporate Linux servers **RHEL 4x, 5.x, CENTOS 5.x**.
* Coordinating with **24 x 7** on-call support personnel in debugging.
* Maintained proper documentation of all the activities carried out during the project.
* Worked with DBA team for database performance issues, network related issues on **Linux Servers**.
* Maintained proper documentation of all the activities carried out during the project.
* Created and modified users and groups with **SUDO permission.**
* Installed and configured **VNC server/client**.
* Coordinating users for any server activities that may involve major changes on software or any hardware related issues.
* Performing Backups and restores as required by the SLAs of the organization.