**HARI POKHREL**

**Linux System Administrator/Devops 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 5.x, 6.x 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.**
* Extensively worked on Version control using **SVN and GIT.**
* Used **Jenkins** as a integration tool.
* 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 : | Puppet,, GIT< SVN, OpenStack, AWS, Oracle Enterprise Manager, Jenkins, Nagios, Netcool, Splunk, Symantec NetBackup, TSM, NIS, LDAP, TOAD, Putty, MySQL work bench. |

**Professional Experience**

**DevOps Engineer/ Systems Engineer October 2015 to Present**

**UPS- Atlanta, GA**

**Environment:**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, Puppet, Git, Jenkins, SVN, GIT, Amazon Web Services (AWS), HP Quality center, Oracle 10g/11g, Oracle Enterprise Linux.

**Responsibilities:**

* Worked on reliability, manage liability and performance improvements for **Linux enterprises**.
* 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.
* Extensive experience in implementing **Continuous integration** systems for Java based projects using **Ant, Maven, Jenkins and Hudson**.
* 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.

**System Engineer/DevOps Consultant 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, Puppet, Git, Maven, Docker, 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 / Engineer 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.