**Bidur Shrestha**

[bidurstha044@gmail.com](mailto:bidurstha044@gmail.com)

**(214)-702-6857**

**Linux/Unix System Admin**

**Professional Experience**

* **8** years of experience specialized in **System Administration,DevOps Engineer**Network Administration and Application Support working on **RedHat Linux**, **SUSE,IBM, Ubuntu, HP-UX** and **Windows** environment.
* Experience in **installation, configuration, backup, recovery, and maintenance, Support** of **Redat** Linux, HP,IBM AIX.
* I**nstallation**, **Upgradation** and **Configuration** of**Redhat , SuSe , Ubuntu** Linux and IBM AIX OS IBM Blade servers and build multiple server from **Kickstart** using **ISO image.**Hands-on experience with **Storage Snapshot** and **Cloning**.
* Experience in applying plug-ins for **WebSphere Application Server** with **Apache HTTP Server** and **IBM HTTP Server.**Worked on OS migrations, upgrade and **BIOS** and **NIC** firmware upgrades.
* Worked with Database administrators to **tune kernel** for **Oracle** installations.
* Experience with **SAN and NAS configuration and LVMs**.
* Experienced in **Data Center Migration** including **Storage Arrays Migration (EMC VMAX, NETAPP,HP 3PAR Storage and Network security** and **physical segmentation.**
* Good Knowledge of Data Center operations and how Hardware and Networks are deployed and also understanding of Networking, routers and switches.
* Experience on **IBM IXV SAN storage** and **N-Series NFS** such as managing and allocation LUNS. Hands-on experience with HP(ILO) **IBM AIX**, and **DELLPowerEdge** servers with **DRAC**.
* Configuration and administration of Fiber channel and Host based Adapter’s and handling of **SAN** (**SAN arrays; HITACHI, EMC**).
* Installation and upgradation of **Packages** and **Patches** configuration mgmt, version control, service pack. & reviewing connectivity issue regarding security problem.
* Implemented day-to-day tasks in RedHat Linux include upgrading **rpms**, **kernel**, **HBA driver**, configure **SAN Disks**, **Multipathing** and **LVM file system**.
* Experience in configuration of **NIS, NIS+, LDAP, DNS, DHCP, NFS, LDAP, Auto Mount, SAMBA, Sendmail, FTP, remote access, Active Directory, Security management** and **Security** trouble shooting skills.
* Experience in writing **shell scripts** for repetitive work to automate the administrative tasks and management using **cron**.
* **Worked with HA and Clustering environment such as ESX Clusters, Veritas Clusters.**
* Experience in developing suitable **AWS-based and Hybrid** solutions based on customer requirements. Experience using and creating custom scripts using the **AWS SDK**.
* Worked on the migration from physical servers to **cloud (AWS),** and used **Chef** to automate the infrastructure in AWS by creating **EC2, S3, RDS, VPC** and Route 53.
* Undertaken course on **Amazon Web Services** (**AWS**) and also building automationusing **Puppet** and **Chef** and also created various modules and manifests using **Puppet.**
* Experience in installation **RHN satellite server and** experience on Webservers such as **Tomcat. Ant and Maven**
* Knowledge in container management tool like Docker and Vagrant**.**
* Experience in **VMWARE** ESX Server to build guest OS using **cloning, VM template deployment.**
* Administrated and implemented server consolidation program through use of**VMware**ESX Server , **KVM** and**VMware** Virtual Center Servers.
* Experience in implementation and administration with virtualization with **KVM** and **VMware** vSphere ESXi 5.x/4.x, vCenter 5.x/4.x. and
* Configured and deployed Cisco computing clusters with **VMware** ESXi 5.5 and vCenter 5.5
* Worked on **VCS, HA Linux cluster** and **native SLES clustering** on servers to provide redundancy in the environment.
* Worked in administering **SQL technologies**, such as **Oracle Exadata** plus working experience with Hadoop.
* Experienced in **RedHat Clustering, Open Text** including **LVM Clustering**, and **Load balancing** techniques to ensure **High Availability** and **Disaster Recovery**.
* Proven ability to write clear, concise documentation on setting up back-up mechanisms for **production environments** and test **disaster recovery mechanisms**.
* Analyze, troubleshooting, and resolve Red Hat Linux and Server HW Network problems in a DEV, UAT and Production Server environment.
* Wrote system design, implementation plans, and updated documentation in share driveTeam player with good management, analytical, communication and interpersonal skills.

**Technical Skills**

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| --- | --- |
| Applications: | Samba, VERITAS, Net Backup, TIBCO, SAP |
| Hardware: | IBM RS/6000, AS/400, P-Series, 630,670, aM80, HP ProLiant Gen 9 EMC symmetric, Hitachi arrays, Backup Devices, Ethernet Hubs, Routers, Printers DELL Power edge 1650, 2950, R600, R730 |
| ­­­­­­­­Networking: | TCP/IP, NIS, NFS, DNS, DHCP, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP |
| Operating Systems: | Red Hat( 4.x,5.x,6.x, 7.x), SUSE (9,10,11 12), VMware ESXI 4.x,5x, Ubuntu (10.04 -14.4) |
| Programming Languages: | Ruby, Shell, Bash and Python. |
| RDBMS: | IBM UDB2, Oracle MS-SQL Server |
| Source control & Ticketing tool | Git , SVN ,CVS , Jira , HPSM |
| Text Editor: | Vim, Gedit, Notepad++ |
| Web/Application Servers: | Web sphere Application Server (WAS)3.5,4.0, MQ Series, Web Logic, JBoss, Server, IBM HTTP Server, LDAP server, HTML |

**Project Summary**

**PepsiCo,**

**Plano TX Aug2016– Current**

**Linux/Unix System Admin**

**Responsibilities:**

* Worked in PepsiCo ACP (**Asset Currency Program**) for Storage refresh and also as UNIX ops for solving P1 issue ticket with **1200 +** servers.
* Installed and configured **SUSE Enterprise Linux Server** and **RHEL** on new physical hardware and virtual environment servers.
* Installed **SLES 10.x 11.x** and **12.x**, **RHEL 6.x** and **7.x** on **HP ProLiant BL460, DL580 Gen 8/9, DELL PowerEdge,** and **VMWare ESXi** servers.
* I**nstallation**, **Upgradating** and **Configuration** of **RedHat** Linux and IBM AIX, OS IBM Blade servers and P-Series Servers using **Kickstart, NIM** and **CD** media.
* Experience and good understanding of VMware ESXI, Venter high availability, DR & BCP solutions.
* Experience in **RED HAT satellite version** 6 server for patching and installation of rpm.
* Performed hardware configuration, network connection, and test of platform to make sure compatibility with **SUSE Linux** and **RHEL** on physical **HP DL380/580 G8/G9, DELL PowerEdge** and **VMWare** virtual servers.
* Experience in **HP Virtual Connect DOMAIN** network rename and set uplinks. **Virtual Connect Enterprise Manager** configuration including server profile setup and **Network** and **SAN** configurations
* Migration of OS from G1 to G7/G8 **HP blades** in HP C7000 enclosures and Invista to Vplex array.Configure Multipath and power path in the servers.
* Wrote Class Build scripts to streamline process of creation, ownership, and permission of directories and handling of **LVM** and **NAS** mounts for entire class application servers which eases up the process during capacity expansion
* Handled SAN LUN Migration project from EMC, NETAPP to HP 3PAR. Flushed the LUNS and **decommissioned** the EMC storage.
* Installed Kibana and Nagios for system and data monitoring on dev environment.
* Upgraded ILO firmware on **HP** physicals using **HP Service Pack for ProLiant (SPP)**. Upgraded kernel on **SLES** and **RHEL** servers after vulnerabilities scan to ensure the server is in good/up-to-date health.
* Installed and configured **IBM MQSeries 7.x** andon **SLES 10.x** and **SLES 11.x** servers. Installed and configured **Oracle 11g** database packages on **SLES** servers.
* Work with Network, SAN and backup teams effectively in building and maintaining **VMware**and **KVM** environment.
* Utilized **VMware**Converter for Physical to Virtual/Virtual to Virtual conversion/Physical to Physical conversion. Involved in **P2V, V2P** Migration using **Stand Alone VMware**  Converter Server and Plate Spin.
* Conversion of physical servers to virtual machines, upgrade of already existing virtual machines to higher versions with aid of**VMware technologies.**
* Configured **multipath, Network (DHCP**, **DNS**) **Apache**, **Sendmail/Postix**, **NFS, autofs,** and **printers** on **SUSE Linux Enterprise Servers** and **RHEL** servers as per the OS and client’s requirements.
* Handled ILO (HP) DARC (Dell) and Vantage for console access to the servers.
* Wrote scripts in **Perl** and **Bash** to start applications/databases on boot and automate it.
* Practice test disaster recovery mechanisms every 3 month and provided the solid documentation on it.
* Configured file systems using native **LVM** and **NFS** shares.Provide privileged access to users on servers by setting up sudo.Migrated servers from different regions in PepsiCo environment like Latin America, Europe Russia.
* Used **HP Service Manager** to handle service tickets on a day-to-day basis.Provided **L3 support** level to customers on production servers.

**Environment:** RedHat Linux 5.x, 6.x. 7.x, SLES 10.x, 11.x. 12.x, VMWare vSphere Apache, JVM, Oracle 11g, Perl, Bash, I HP UX, NETBACKUP, MYSQL

**Penn State University’s**

**State College, PA Feb 2016 – Aug2016**

**Dev0ps Admin**

**Responsibilities:**

* Worked in **monitoring and login System project code.** Executed routine tasks in Red Hat Linux that include upgrading rpms, kernel, configuring **SAN Disks**, **multipath** and **LVM** file system.
* Developed **Kick start** file to create the Template for server deployment, and build 500+ servers as per requirement given by application team.
* Installed, configured and maintained**Red Hat satellite version 5.5** server and custom repositories. And also worked on patching, satellite servers using custom repository.
* Installed and maintaining physical as well as virtual Red Hat Linux servers (RHEL 6.X, 5.X, 4.X) based on project requirements.
* Developed processes, tools, automation for **Jenkins** based software for build system and delivering **SW Builds.**
* Managed build results in **Jenkins** and deployed using workflows. Delivered specific versions of various components of an application into target environments.
* Managed over 200+ instances in **AWS cloud.** Worked on **Jboss,** Apache, **MailServer**, and Firewall in both development and Production. Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Extensive experience working on the monitoring of the servers using tools such as **Nagios** as well as worked with **Splunk** for Log Management.
* Worked on the migration from physical servers to **cloud (AWS),** and used **Chef** to automate the infrastructure in AWS by creating **EC2, S3, RDS, VPC** and Route 53.
* Familiar and experienced with **Agile SCRUM** development.Integrated **GIT** into Jenkins to automate the code check-out process. Worked with App team for **chef** client installation.
* Created, deployed, and managed complex, fine-grained access control policies to ensure only authorized privileged users are getting at your most sensitive data and applications.
* Worked on generating **RHN** channels for **PCIpatching** and patched around 600 PCI servers working with offshore team.Configured **LDAP** based authentication on the **Redhat** Physical and virtual servers.
* Performed Host Based **SAN Storage migration** to migrate IBM XIV storage array to VPLEX storage array on AIX and Linux servers.
* Experience with**VMware vSphere,** creating VM Sessions for installing multiple OS and applications.
* Created script to find out **WWF files**, sudo access and write access for developers and remediated as per **SOX SOD**compliance. Installed and configured **NetBackup** agent on the servers working with backup team.
* Registered the server on **CMDB** and created the change to implement the changes on production environment.
* Installed kernel patches and updating hardware firmware to bring the stability to the hardware.
* Performed **BIOS** and **FIRMWARE** Upgrade on HP hardware.
* Manage systems using remote consoles like **ILO** for HP Hardware and **HMC** for **IBM P-Series.**
* Modified system configuration files (such as network settings, kernel parameters, service configuration files, cron)

**Environment: Red** Hat Linux 5.9, 6.3 6.4 and 7.0,AWS, Jenkins, GIT, ANT, WebSphere, VMware ESX 2 Tomcat Apache Server, Bash.

**IGT**

**West Greenwich, RI Jan 2015 – Jan2016**

**Linux/ Unix Dev-Ops Engineer**

**Responsibilities:**

* Worked as **Ops Engineer**, supporting the Server farm in **24X7 Production** Environment. Creating **puppet module** to automate the **legacy system** being used in the company.The legacy system constitutes of its own in home built rpm’s and configuration files.
* Administered networks in Linux (RedHat 5/6) servers and also maintained **UNIX/LINUX** System running different Database and **Middleware** Applications.
* Working with **Puppet 3.8.7** to build an automated system and Supported**Red Hat Linux** (RHEL 6.5).
* Installation/Administration of Ubuntu 12.04 and RedHat 6.5 on Multiple Servers (configuration, testing on both physical and virtual machines).
* Installed **Puppet and deployed Puppet server** Servers. Configured several environments (**prod, stage, Dev, QA**). Puppet modules have to be created ground up with their own custom types, provider and facts. Developed a continuous deployment pipeline using **chef.**
* Created custom facts to constantly monitor the state of the machines and create restriction on its updates through the integration with puppet.
* Used **Jenkins** as the CI tool to continuously build and test the modules as they are being written and updated in the **GitHub.**
* Designed two new **VMware ESX Server 4.x/5.x** on HP HW running Red Hat Enterprise
* Linux &amp; Created different virtual machine like windows 2003&amp; 2008 server, SUSE Enterprise Linux using VMware Virtual Infrastructure Client tool.
* Installation and Configuration **of Sun Enterprise Servers**, **HP** and **IBM Blade Servers** (C6000 &amp; C7000), HP Itanium, Configured Enterprise UNIX/LINUX systems in different environment (Linux, HP-UX).
* Installation, Implementation, Configuration and documentation of Backup solutions for **Disaster Recovery** of clients using **OMNIBACK** on UNIX and LINUX platform.Performed **patching** of Linux, servers on regular given schedule.
* Extensive knowledge of **RAID** groups and setting up **NFS, CIFS and iSCSI** protocols in **SAN/NAS** environment on **Redhat** LINUX.
* Configured migration for **UNIX/Linux** server and **SAN storage** between data centers and also application migration and testing. This included **SAN/Application** migration and testing various functionalities of key applications.
* **RAC cluster**, configuring load-balancing on apache, on Red hat Linux 5.x Setting up **NIS/NFS** on Red Hat servers.
* Provided 24x7 support in shift and being On-call. Environment: **HP ProLiant** servers HP BL460, Cisco UCS, VMware ESX sever 5.0, Red Hat Enterprise Linux 4.3/5.7/5.8, Puppet, VERITAS netback up 6.5, SVN, GIT, Nagios,
* Structured the lab environment with **Tomcat**/**Apache**, configuring the setup with **F5** virtual load balancer for customer application.

**Environment:** Red Hat Linux 4.9, 5.7, 5.8, 5.9, 6.3 and 6.4 NetBackup, SAN Storage, 4.5.5, IBM-z/VM, Oracle Samba, NT/2000 Server, WebSphere, Java, Web Logic 8.1, VMware ESX 2.x Tomcat Apache Server Korn, Bash

**BELK**

**Charlotte, NC Nov 2013 – Dec 2014**

**Sr. System Administrator/Engineer**

**Responsibilities:**

* Administered, maintained **Red Hat** 5.0, 6.0, operating system, applications & network problems and performance issues.
* Deployed latest patches for, Linux and Application servers, performed Red Hat Linux **Kernel Tuning**.
* Implemented day-to-day tasks in **Red Hat Linux** that include upgrading rpms, kernel, configuring **SAN Disks,** multipathing and LVM file system.
* Created users, manage user permissions, maintain User & File System quota on Red Hat Linux and AIX.
* Migrated database applications from RHEL 3.X, 4.X, SUSE Linux to RHEL 6.3, 6.4 server.
* Engineered, Build and managed over 300 Linux Servers (RHEL 6.3 and 6.4) for migration of various applications.
* Successfully expanded and shrunk **ext3, ext4** and **GPFS** file systems.
* Utilized Linux **LVM** for flexibility with respect to file system and storage management.
* Remediated any vulnerabilities related to PCI compliance and worked on exceptions, if any.
* Provided production support of **Apache** and **JBoss**including installation, configuration, and management and troubleshooting.
* Implemented virtualization using **VMware** in Linux on **HP-DL585** and **IBM-z/VM** series.
* Patched Linux kernel, memory upgrades and swaps area. Worked with security team to make **Systems PCI** complaint.
* Apache/Tomcat server, mail server, MySQL database, and firewalls in both development and production
* Worked on **blade logic management** console to provision Red Hat enterprise Linux servers in physical and VMware environments.
* Installed and set up Blade logic software for server automation.Developed Korn and Bash shell-scripts to automate routine activities
* Data Warehousing and System Backup using tar, **cpio** for local systems and **VERITAS** TSM Backup for enterprise wide backup and recovery
* Managed systems using remote consoles like **ILO** for **HP Hardware** and **HMC** for **IBM P-Series**
* Setup Network File Services (NFS), and Network Information Services (NIS) in Linux and AIX systems
* Network trouble shooting using ‘ndd’, 'traceroute', 'netstat', 'ifconfig' and 'snoop' ‘nmon’ etc
* Monitored trouble ticket queue to attend user and system calls, attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment
* Worked with **DBAs** on installation of **RDBMS** database, restoration and log generation.
* Mentored and trained other offshore members of the team in various technologies

**Environment:** Red Hat Linux 5.0,6.0 AS ES, AIX HP-DL585, HACMP, VeritasNetBackup, SAN Storage, Oracle, Samba, NT/2000 Server, Web Logic 8.1, VMware ESX 2.x,Apache Server Korn, Bash.

**DISH Network**

**Denver, CO Oct 2012 – Nov 2013**

**Sr. System Administrator**

**Responsibilities**

* Administered, maintained Red Hat 5.0, 6.0 AS, ES, troubleshooting hardware, operating system, applications &amp; network problems and performance issues. Deployed latest patches for, Linux and Application servers, performed Red Hat Linux Kernel Tuning.
* Installed and configured z Linux on IBM mainframes server sand configure DHCP, DNS (BIND, MS), web (**Apache, IIS**), mail (**SMTP,IMAP, POP3**), and file servers on AIX and Linux servers.
* Implementation of **Samba** to help printing and file sharing in the mixed Environment.
* Provided production support of Apache and JBoss including installation, configuration, and management and troubleshooting.
* Implemented virtualization using **VMware** in Linux on **HP-DL585** and IBM-z/VM series.
* Hardware Maintenance and System Administration of existing RS 6000 running AIX (40 systems in Network). Implemented day-to- day tasks in **RedHat** Linux that include upgrading rpms, kernel, HBA driver, configuring SAN Disks, multipathing and LVM file system. Created users, manage user permissions, maintain User &amp; File System quota on **RedHat** Linux and AIX.
* Developed Korn and Bash shell-scripts to automate routine activities Configured and administrated Lpar’s/DLpars’s.
* Manage systems using **remote consoles** like ILO for **HP Hardware** and HMC for **IBMP-Series.** Setup network printers and installed client/server applications. Defined/setup network protocols, Network File Services (NFS), and Network Information Services (NIS) in Linux and AIX systems.
* Monitored trouble ticket queue to attend user and system calls, attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.

**Environment:** Red Hat Linux 5.0,6.0 AIX HP-DL585, Veritas, NetBackup, SAN Storage, Samba, NT/2000 Server, WebSphere, Web Logic 8.1, VMware ESX 2.x, LPAR, DLPAR, Tomcat, Apache Server, Korn, Bash.

**Telecommunication Authority**

**Kamaladi, Kathmandu Aug2010 – Sep2012**

**Linux/Unix Administrator**

**Responsibilities:**

* Installed, Upgraded, **Mirrored** and configured RHEL 4.x, and Kick start, NIM and Jumpstart Installation respectively.
* Maintenance of the Web Sphere servers on different UNIX platforms and setting up the development and testing and staging environment for the ongoing application development
* Backup Schedules for Linux Servers using **DLT Tape drives.**
* Managed e-mail systems, including **POP, SMTP,** text, and web-based clients, as well as virus scanning/filtering software; Installed, configured and managed **DNS** service for several domains; Performed OS installations and configuration for testing and implementing server environment based on virtualization.
* Logging events and **forcing crash dumps**, securing servers and **troubleshootin**g issues.
* Created, deployed, and managed complex, fine-grained access control policies to ensure only authorized privileged users are getting at your most sensitive data and applications.
* To provide ongoing support in systems management and administration of **LINUX/UNIX** in global-scale environment. Provide Production Support:

**Environments**: RedHat Linux 4,5, Sun V44 VERITAS Operations Manager.

**Nepal Electricity Authority**

**Kathmandu, Nepal April 2009– July2010**

**System Administrator**

**Responsibilities:**

* I**nstallation**, **Up gradating** and**Configuration** of **RedHat**Linux and servers and P-Series Servers using Kickstart**, NIM** and **CD** media.
* Responsible for installation, configuration, support and performance monitoring of high profile applications running on IBM Web Sphere Application Servers, WebSphere Process Server and integrate with different Web Servers and configuration of web apps.
* Upgraded Web Sphere **ND 6.0** and **6.1** with refresh packs and fix packs. Migrated all the applications on Web Sphere 5.1.1.12 to 6.0.2.9 and to 6.1.0.9
* Implemented the **Clustering Topology** that meets High Availability and Failover requirement for performance and functionality.
* Worked on **HACM**P clusters in SAN environment (EMC).Installation and customization of Window 2003 servers.
* Configuration and Administration of **NFS, NIS, NIS+, LDAP, DNS,** Samba and Send mail Servers.Working knowledge of VMware (Virtualization).Upgrading VMware server 2.x to 3.x.
* Installed RPM packages and LPP on Linux Servers and IBM P-Series AIX Servers.
* Written **shell scripts** to automate the administrative tasks using cron and at in AIX and Linux.
* Validated monitored and Analyzed Batch Jobs.
* Provided **On Call** Support for RedHat Linux and IBM AIX server environments.

**Environment**: RedHat Linux, IBMAIX