 **VENKATESH**

**Linux Admin**

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**Summary**

* 8 years of IT professional experience in **Linux**, **Unix System Support and Administration** and production support of various applications and database, Solaris and AIX.
* Extensive engineering and implementation knowledge in Solaris, Red hat Linux and AIX. Hands on experience architecting and implementing **EMC storage** solutions.
* Manage **VMware systems** in engineering and production – **deploy VM’s,track capacity, update templates and perform backups**
* Manage and document production system backup and **recovery procedures** for offsite disk and tape storage
* Document system configurations, server, OS, and VM build practices, backup procedures, **troubleshooting guides**, and keep infrastructure drawings current with changes
* Analyze and **resolve problems** involving interaction between applications, server hardware/firmware/OS and storage by working with software developers, QA, and equipment vendors.
* Installation and implementing of **puppet**.
* Provided technical expertise for automation systems in support of OS, patch deployments, configuration changes, compliance reports, and general scripting leveraging BladeLogic.
* Administering **of Splunk 6.x and Splunk Enterprise Security 3.x**, upgrading Splunk, installing and configuring Splunk apps and their upgrades, cyber analytics, forensics, incident response, malware analysis.
* Debug**Splunk** related and **integration issues**.
* **Splunk UI experience** and able to debug expensive search queries.
* Experience on Red hat satellite servers.
* Experience in Supporting, installation and configuration of various **Third Party Middleware** tools.
* Build Virtual and bare-metal systems on an as needed basis.
* Very well experience with **VxFS, VxVM, VCS, ODS and LVM**.
* Creating and maintaining user **accounts, profiles, security, rights, disk space,** and process monitoring.
* Installation and configuration of web hosting administration such as **FTP, SSH, RSH, Telnet,** and **HTTP.**
* Configuring and administering **NFS, NIS, NIS+,DNS,** and **SFTP**
* Strong knowledge of system **performance** and **monitoring** tools.
* **Veritas NetBackup** backup server installs, configuring and maintenance of server and clients.
* Working knowledge of VMWare vCenter. Working knowledge of **HP Blade Virtual Connect**.
* Networking communication skills and protocols such as **TCP/IP, NFS, DNS**, **LDAP, DHCP, NTP** and **SMTP**
* **24x7 On call** support and availability
* Excellent troubleshooting, problem management, documentation and training skills.

**Technical Skills**

**Operating System**: Sun Solaris 8, 9and 10, HP-UX 10 and 11, AIX 5.3 and 6.1, Red Hat Linux ES 4,5,6, 7 Windows 98, 2000, XP, Vista

**Hardware**  : RS6000 Sun Firev210,v440,v880,3800,4800,4810,6800,10K,15K, T5440, T5120, M2000/5000, HPdl580, dl380G6, IBM P5 series 570(machine type 5117), p6 series 520 P5 and P6 Servers and EMC Clariion Servers

**Software (Packages)**: VxVM 4.x, 5.x, 6.x, Veritas Cluster Server,Vertias file systems, Solstice Disk Suite, LVM

**EMC Storage Solutions** : EMC Unisphere, Navisphere Mgr. Storage based replication (MirrorView), LUN migration and snapshots.

**EMC Storage Systems**  : VMAX, VNX, SAN switches including configuration, zoning and troubleshooting

**Programming Languages** : Java EE 1.6, Java Script, SQL, PL/SQL

**Virtualization Solutions** : VMWare ESX (i), Solaris Virtualization.

**Infrastructure**  : HP ProLiant, Blade, IBM, Cisco, Fiber, SAN, HBA, NetApp, Fiber, KVM.

**Enterprise Management Tools:** Big Brother, Netprobe URL Monitoring tool, Splunk, Bluestripe

**Name Services** : DNS, NIS/NIS+ and LDAP for AIX

**Protocols**  : DHCP, NIS, DNS, TCP/IP, FTP, SMTP, IPV4, LDAP, and Apache Servers

**Education**

Bachelor’s Degree in Computer Science Engineering, Jawaharlal Nehru Technological University, and Kakinada, India

**Certifications:**

Red Hat Certified Engineer [RHCE]: 132-243-839

Red Hat Certified System Administrator [RHCSA]:: 130-206-055

**Work Experience:**

**National Education Association, Washington, DC**

**Nov 2014 – present**

**UNIX/ Linux Administrator**

**Responsibilities:**

* Work involves providing **Architectural and Technical Assistance in UNIX and Storage**, 24/7 customer support for external customers that includes nonstandard trouble shooting tasks.
* Working on different platforms including **Solaris, Red hat Linux and AIX**. Nature of work involves solving problems relating to Operating system, Web server related problems, Application server related problems, Managing Network Appliance Servers etc. Also involves managing HA + environment running **Veritas, HACMP/PowerHA for AIX.**
* Carrying on-call pager for providing 24x7 support and also doing shell scripting.
* **Installation/Upgrade** and configuration of Sun Solaris on SUN Enterprise and Sun Fire Mid-Range & High-End systems.
* Worked on **BMC BladeLogic Server Automation activities** - Adding Servers, Creation/Maintenance of BLCLI or NSH Scripts, **Creation of Packages, Jobs, Snapshots, Audits** etc.
* Installed and configured **Red Hat Satellite** server for package transfer across servers, to store client's system profile and to control other servers in the network.
* Have experience on patching Red hat **Satellite** server.
* Deployed **Puppet, Puppet Dashboard, and Puppet DB** for configuration management to existing infrastructure.
* Lead the migration of Linux based web servers to **AWS** cloud platform.
* Proactively monitor, enhance and resolve issues related to the daily operations of the **AWS** infrastructure.
* Implemented **AWS** solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.
* Develop and implement an automated **Linux** (**Centos, Amazon**) infrastructure using **Puppet**, **AWS** and move existing applications.
* Wrote **Puppet** models for installing and managing **java** versions.
* Providing **SAN** support including zoning and **LUN provisioning**, troubleshooting, capacity planning and reporting.
* Worked as Cyber Security Analyst and**Splunk engineer** which involved determining requirements, evaluating solutions and making a recommendation of product.
* Worked with vendors to determine whether products would meet current cyber requirements. Setup 90 day POC (parallel testing) with **Quadra, Trust wave and Splunk**. Used live production data for POC.
* Worked on Setting up Splunk to capture and **analyze data** from various layers **Load Balancers**, Web servers and application servers.
* Architect, engineer and operate the on premise cloud computing development environment that consists of**Cloud forms**
* Evaluated the capabilities of **McAfee Network Access Control** by constructing checks and benchmarks for **McAfee products, WSUS servers, Internet Explorer proxies**, and encryption status alerts.
* Administered all **McAfee end point security** via e-policy Orchestrator, including Data Loss Prevention and Application Control, to ensure confidentiality, integrity, and availability of data.
* Using Linux **Kickstart**, Sun Jumpstart to build and deploy **RHEL and Solaris servers**. Installing and configuring and **Linux VMs on ESX 4.x** for various applications.
* Backup support, install and configure **NetBackup master** and **media servers**, monitor and support the backup needs of all platforms.
* Setup, configure and maintain 2 and more node **Veritas Cluster (VCS**) High Availability to support Oracle Database and other application. Extensive experience with Volume manager software and Filesystems. OS native software such as **Solaris Disk Suite, ZFS, and Linux / AIX LVM.**
* 3rd party multipathing software such as **EMC Power path**, AIX MPIO and **Veritas DMP.** OS native such as **Sun MPXIO** and Linux native multipathing.
* Extensive experience with **virtualization.** Solaris zones and containers Performing day-to-day system **administrator activities, troubleshooting, and storage** assignments
* Maintaining **Patches and Packages** to keep the servers up to date with latest OS versions
* Updating Operating systems to latest maintenance levels and **applying fix packs**
* Presents status reports to management team.
* Monitor the change plan and ensure that all scheduled changes are managed and implemented in a timely manner.
* Ensure that events are closed within documented time frames and comply with in **SLA’s.**
* Strive for completeness in all tasks while paying attention to detail and produce **error-free work.**
* Troubleshooting issues related to **NFS both at Client and Server side**
* Write **shell scripts** to customize any customer specific application requirement
* Scheduled **corn jobs** for job automation
* Setup **NIC bonding** for servers with critical information.
* Adding and removing virtual **swap space as necessary**
* Administration of Users and File Systems on **Solaris AIX and Linux**.

**Fidelity National Information Services, Los Angeles, CAJan’2012 – Oct’2014**

**Sr System/Linux Administration and Support**

**Responsibilities:**

* Installation, configuration, maintenance, Administration, and supportof **Solaris/Redhat/SUSE**.
* Kickstart/Jumpstart multiple servers with hands-off installation using Cisco standard images.
* Troubleshooting issues related to **DNS, NIS, NFS, DHCP, Sendmail**on Linux and Solaris Operating Systems.
* Working knowledge on the TCP/IP protocols **RSH, SSH, RCP, SCP.**
* Worked extensively on Corp-Unix, Data Center, Storage and INTEL Frontline queue’s almost every day in one of those and these **Frontline Queues**have enough challenges ranging from customer tasks, user requests to  trouble shooting system issues within a timeframe.
* Administration and auditing the SUN servers and installation of the patches on production and development systems.
* Configuration & Installation of **Red hat Linux 4, 5** by using Kick Start and customized scripts.
* Use VSphere **vCenter Server** to monitor virtual machine resource usage. Designed and implemented virtualization using VMWARE ESX 4.0 & 4.1 and ESXI Server and configured VMWARE HA, VCB, VMOTION, VSWITCH.
* Migrated VMWARE VMs to **AWS** and Managed Services like EC2, S3 Bucket, Route53, ELB, EBS Etc with Opscode Chef Cookbooks/Recipes.
* Wrote Ansible Playbooks with PythonSSH as the Wrapper to Manage Configurations of Openstack Nodes and Test Playbooks on **AWS** instances using Python.
* Configured & Deployed ESX/ESXi server in corporate production environment.
* **ESX Server 4/4.1** and troubleshooting business critical issues in a production environment.
* Creating new file systems, managing and checking data consistency of file systems Administration and auditing the **SUN servers and installation** of the patches on production and development systems.
* **Splunk dashboard** creation and advanced searching and reporting.
* Standardize Splunk forwarder deployment, **configuration and maintenance** in Linux and windows platforms.
* Create role based AD access for Splunk.
* Prepared, arranged and tested Splunk search strings and operational strings.
* Installing and configuring **Puppet.**
* Wrote **Puppetmanifests** for deploying, configuring, Instalshield and managing collected for metric collection and **monitoring**.
* Operating system support – **Windows 2003/2008, RHEL4/5, SLES10/11**.
* Install and Configure Virtual Machines (VM), VM tools on ESX boxes from the GUI and console.
* Configuring **NFS, NIS, DNS**, Auto-mounter and disk Space management on SUN servers.
* SENDMAIL configuration and administration, testing the mail server.
* Implementation and management of network attached storage (NAS), with expertise in NetApp Disk Arrays, NAS IP replication, de-duplication**, NDMP, SnapShot/Vaulting**.
* Setup of full networking services and protocols on AIX, including **NIS/NFS, DNS, SSH, DHCP, NIDS, TCP/IP, ARP**, applications, and print servers to insure optimal networking, application, and printing functionality.
* Installation, configuration and implementation of **Samba service** on UNIX based systems.
* Dealing with user id deletion with removing entries from **CRONTAB**.
* Clearing tickets in all monitored systems, and ensure where possible that these tickets are cleared at first touch.
* Installation and configuration of **Veritas Volume Manager.**
* Installation & configurationof **Veritas Cluster Server** and **Sun Cluster**.
* Performed daily Backups using Veritas NetBackup v5.x.
* Providing day-to-day user administration like adding or deleting users, password aging, installation, configuration and administration of UNIX and Windows NT Servers.
* Provided support for local and remote users.
* Troubleshooting Backup and Restore problems.
* Installed Configured and maintained **IBM WebSphere Application Server** 5.x/6.x on AIX /Linux/Windows2003/SunSolaris Involved in migration of the applications.
* Involved in enabling WebSphere global security using Local OS and **LDAP/LTPA** mechanism, SSL configuration and Ordering digital certs for Pre-prod and Prod environments.
* Good working experiences with **Session Management**, creating replication domains for session persistence (Memory to Memory replication) using client server methodology.
* Used WebSphere backup and **restore scripts** for backing up **WebSphere repository**
* From WebSphere 5.x to 6.0 and worked closely with development team. Applied Refresh packs, fix packs and cumulative fixes for WebSphere, **IHS** and plug-in.
* Constant Monitoring of System Performance. Involved in **Day-to-Day trouble shooting** for the end users on Solaris based applications.
* Installed and Configured **Send mail Utility** on UNIX Servers.
* Performed backup/restore operations using tar**, ufsdump, ufsrestore**.
* Limited time Work experience on **Windows OS Administration**.
* Resolving Operating Systems related issues of Solaris, making sure that the users get the proper environment for testing.
* Coordinating and planning for better utilization of resources in Labs and Reporting the management about it.
* Provision and assign storage according to business requirements.
* My responsibilities included assigning storage to Windows and Sun servers, by configuring storage groups, assigning LUN’s, registering HBA’s to hosts in the **CLARiON** environment, mapping devices, and performing LUN masking in the **Symmetrix/DMX** environment.

**Prosperity Bancshares Inc., Houston, TXNov 2010 – Dec 2011**

**UNIX/ Linux Administrator**

**Responsibilities:**

* Installation, configuration, maintenance, Administration, and support on **Solaris / Redhat Linux/ SUSE Linux.**
* Responsible for maintaining the **integrity and security** of the enterprise **UNIX (Linux /Solaris) servers** and systems.
* Image machines using **Jumpstart / Kickstart** to install **Solaris 10 and Red Hat Enterprise Linux**.
* Installation and configuration of **Solaris Zones**.
* Maintains a disaster recovery plan. Creates **backup** capabilities adequate for the recovery of data and understands concepts and processes of replication for disaster recovery.
* Maintains **DNS, NFS, and DHCP, printing, mail, web, and FTP** services for the enterprise.
* Manages UNIX account maintenance including additions, changes, and removals.
* User administration for all the NIS users.
* Supporting NetApp filers by closely working with the **NetApp storage** team.
* Forecast storage needs. Work with the site management to determine future disk requirements.
* Works with the application teams and other IT department personnel to coordinate system software changes and support application changes.
* Experienced in deploying portlets for **WebSphere Portal Server (WPS)**
* Hands on installing, configuring and maintaining on **Oracle 10g / Oracle 10g RAC and Oracle 11g DB Servers.**
* Name Service design, best-practices, configuration & maintenance **(NIS, LDAP, DNS**)
* Installation, configuration and management of SAMP **(Solaris/Apache/MySQL/PHP) and LAMP (LINUX/Apache/MySQL/PHP) stacks.**
* **Unix-to-Windows** interoperability and configurations.
* Configure, maintain and troubleshooting **Samba Servers** in navigating to Linux directories from windows.
* **Troubleshooting** the network issues and response problems.
* Storgae allocation for users across filers/volumes on site without over-allocating disk space.
* Working knowledge of the IP protocol suite, specifically relating to the applications and services that utilize these protocols: **SSH, NNTP, DNS, SMTP, HTTP.**
* Provide application support on **UNIX / Linux and Solaris**.
* Work individually or on a team on various system projects related to Application Support.
* **Debug and correct** installed system software as required.
* Plan, prepare and apply maintenance fixes to system software as required.
* Tune system software for **peak performance** and availability.
* Provide off shift on call support for system support. Make system hardware and software recommendations as required.
* Configure and **Manage Sun / Dell** and **HP hardware**.
* Installation configuration and management of **Veritas NetBackup VXVM, VCS, ZFS, LVM, Virtualization** (Xen, SolarisZones/Containers, LDOMS, Oracle VM).
* Working knowledge on Sun Directory (ldap), Solaris Volume Manager, Jumpstart/Wanboot, **Kickstart, iscdhcp, Sendmail, Apache, NIS, NFS,** Subversion/CVS, Compiling and Package creation.
* Assist application owner in application troubleshooting, software package installation & creation.
* Perform backup / restore and monitor **Netbackup & HP Data** Protector backup tools.
* Perform Tape handling for all the filled tapes coming out of the MSL Tape libraries.
* Configuration, administration and management of **external storage (SAN/NAS).**
* Writing **shell & Perl** scripts to automate redundant jobs.
* Installation and configuration of HA environment using **Sun or Veritas Cluster**.
* Setup **NIC bonding** for servers with critical information.
* Recommends and implements **security policies** and standards and ensures adherence to procedures.
* Provided 24x7 on call and remote support for UNIX Production Problems and responding to user’s tickets from HP-OVSC.

**Fannie Mae, Herndon, VA Dec’ 2009 – Oct’2010**

**Sr UNIX System Administrator**

**Responsibilities:**

* User administration on Sun Solaris and **RHEL systems, HP-UX machines**, management & archiving.
* Installation of **Red Hat EL 4.x, 5.x using Kickstart and PXE** on HP Blade Servers.
* Administration of Services using SMF and converting legacy services to be managed by SMF. Error detection and Observation of services.
* Worked on **Remote Laboratories** project. Creating users and providing them access as per requirement.
* Configuring **NFS, NIS, DNS**.
* SENDMAIL configuration and administration, testing the mail server.
* Administration in **VERITAS Volume Manager** and **Veritas Cluster Server**.
* Scheduling full and backups with tar command.
* Experience with adding and configuring devices like **Hard disks and Backup devices** etc.
* Troubleshooting the **network issues** and response problems.
* Installing and maintaining enterprise tools and coordinating with teams.

**AM Technologies, India April ’2008 - Nov ‘2009**

**UNIX Support Analyst**

**Responsibilities:**

* Responsible for Installation, Configuration Management, Maintenance and Systems Development of **LINUX/UNIX** Systems.
* Monitored the systems and administered Servers for day-to-day problems, patches, user administration, and hardware failure, **monitoring log files, backup**, and software up gradation, configuration changes and documentation.
* Installed, upgraded and configured **AIX Servers using NIM Master** and **Red hat Enterprise Linux 5/6** using **Kickstart.**
* VMware Installation, configuration and administration, virtual environments with 5x Virtual Center 5x.
* Performing Migration and/or Preservation Installations and upgrades from AIX 5.3 to AIX 6.1and AIX 7.1.
* Building software packages on Red Hat Linux (RPM)
* Installed, upgraded and configured SUN Solaris 9/10 on Sun Servers using Jumpstart and Red hat Enterprise Linux 5/6 using Kickstart.
* Performed extensive Logical Volume Management (LVM) tasks
* Managed File system using **VERITAS** volume manager 5.0.
* Performed centralized management of **Linux** boxes using Puppet.