Sivakiran Kumar Mirthipati

**(Sr Linux/Unix Administrator)**

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**Summary**

* Over seven years of experience, specialized in System Administration working on **Redhat Linux, Solaris, Suse Linux, AIX, Cent OS, OEL** and **Windows** environments.
* Video Asset Management, Transcoding, Quality Control, HD Encoding, Metadata transformation, and other related technologies used to produce Video On Demand, Online Media, Mobile Media and Envivio Elemental and Cisco DCM Transcoders, Unix, Vmware and scripting etc
* Knowledge of software configuration management systems, continuous integration / continuous delivery, and release management tools
* Experience in administering Solaris & Linux. Experience in **Installation, Configuration, Backup, Recovery, Maintenance, Support of Sun Solaris & Linux**.
* Experience in Installing, upgrading and configuring **RedHat Linux 3.x, 4.x, 5.x** using Kickstart Servers and Interactive Installation.
* Experience in Installing, upgrading and configuring **SUN Solaris 2.6, 7, 8, 9** and **10** on Sun Servers using Jumpstart Servers, Flash Archives and Interactive Installation.
* Worked with Database administrators to **tune kernel** for **Oracle** installations.
* Experience with **Veritas Volume Manager (VxVM), Veritas File System (VxFS), Veritas Net Backup, Veritas Clustering** with SAN, NAS environment.
* Experience in installing, configuring and implementing the **RAID** technologies using various tools like **VxVM** and **Solaris volume manager.**
* Automated migration of users, groups and computers from Windows NT 4.0 domain to Active Directory using custom developed tool set including Perl scripts, VB.Net, **Microsoft ADMT**.
* Responsible for the design and development of a common Puppet automation platform capable of managing each project as a separate entity using Directory Environments, Stash and **R10K**.
* Experience in Creation and managing user accounts, security, rights, disk space and process monitoring in Solaris and Redhat Linux.
* Monitor track of Splunk performance problems and administration.
* Installation and upgradation of **Packages** and **Patches** configuration mgmt, version control, service pack. & reviewing connectivity issue regarding security problem.
* Experience in configuration of **NIS, NIS+, DNS, DHCP, NFS, LDAP, SAMBA, SQUID, postfix, sendmail, ftp, remote access, security management and Security** trouble shooting skills.
* Experience on Webservers such as **iPlanet Webserver 6.0 /Sun one web server 6.3, 6.5, Tomcat 3.x, 4.x, 5.x & Apache Server 1.x,2.x** and integrating them with **Weblogic 10.x servers**.
* Experience in administering **VMware Infrastructure Client 3.5** and **Vsphere 4.0.**
* Experience in Installation of **Oracle** and **MYSQL**.
* Experience in writing **shell scripts** to automate the administrative tasks and management using **cron** and **at**.
* Expertise in scripting for automation, and monitoring using **Shell, PHP, Python & Perl scripts.**
* Team player with good management, analytical, communication and interpersonal skills.
* Experience in Installing Firmware Upgrades, kernel patches, systems configuration, performance tuning on Unix/Linux systems.
* Experience in **Sun Solaris 10**(Creation of **Zones**, Service Management Facilities, Virtualization, **Container** based).
* Migration of hundreds of Windows NT servers and services from local data center to 3rd-party remote data center

**Technical Skills**

**Operating Systems:** RHEL, Solaris, Aix, Windoiws, Ubuntu, centos.

**Databases:** Oracle v6-11g, MS SQLserver, MySQL, CouchDB.

**Storage:** EMC DMX/CLARiiON/Celerra, NetApp, IBM 8300+SVC, Equallogic,

Linux IET/SCST, Brocade/McDATA switches.

**Virtualization:** VMware, Xen, KVM

**Software:**  Veritas Volume Manager 3.5/4/5, Veritas File System, Veritas Cluster Server 3.5, Veritas Netbackup 6.0, MS-Office/MS-Project.

**Web/ Application Server:** Tomcat, Apache DB2, Oracle.splunk,Op5 monitoring, JBOSS, WebSphere, Redhat/iPlanet

**Cluster Environment:** Sun Cluster Servers 2.2, 3.1, 3.2 and VERITAS Cluster Servers 4.1.

**Programming Languages:** C, SQL, HTML, PHP, XML, Perl and Shell Programming, JSP, Python

**Switches:** Dell, Cisco, HP, Extreme, F5 3DNS/BigIP, Cisco ACE/5000, SSL- ‐VPN

**PRofessional summary**

**Dodge Data and Analysis, NJ**  Sep’ 2014 – Till Date

**Sr. System Engineer**

**Responsibilities**

* Installation, configuration, administration of RHEL 6, Solaris 9, 10 on SPARC based servers using Kickstart and Jumpstart.
* Automated migration of users, groups and computers from Windows NT 4.0 domain to Active Directory using custom developed tool set including Perl scripts, VB.Net, Microsoft ADMT.
* Responsible for the design and development of a common Puppet automation platform capable of managing each project as a separate entity using Directory Environments, Stash and R10K.
* Worked on Video Asset Management, Transcoding, Quality Control, HD Encoding, Metadata transformation, and other related technologies used to produce Video On Demand, Online Media, Mobile Media and Envivio, Elemental and Cisco DCM Transcoders, Unix, VMware and scripting etc.
* Excellent experience of working with Chef and Puppet frameworks and methodologies (Git, Maven, Ant, Git Flow, TeamCity, Buildbot, etc).
* Monitor track of Splunk performance problems and administration
* 24X7 Production Support Team and Incident Analysts who are instrumental in providing oncall triage support and resolution of major outages.
* Installing RedHat Linux using **kickstart** and applying security polices for hardening the server based on the company policies.
* Administration, package installation, configuration of **Oracle Enterprise Linux 5.4**. .
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Installation of Solaris 9, 10 on Sun Fire and Enterprise server using Jumpstart, custom configuration like installing packages, configuring services.
* Tech and non-tech refresh of **Linux servers**, which includes new hardware, OS, upgrade, application installation, testing.
* Installing, configuring Redhat servers via Cobbler, automating scripts, tasks using Cobbler.
* Installation, configuration of MySQL 5.1 which includes creating database tables, updating table entries.
* Installing, configuring Jboss 4.3 on Linux, Unix servers, integrating it with Apache server.
* Worked on E-commerce based application products related to internet marketing, credit card transactions,

Inventory management.

* Designing Firewall rules for new servers to enable communication with application, Oracle 10g servers.
* Monitored server and application performance & tuning via various stat commands (vmstat, nfsstat, iostat etc) and tuned I/O, memory, etc.

Installing, configuring Weblogic 10.3, Apache and integrating them.

* Experienced in Troubleshooting critical hardware and software issues and other day-to-day user trouble tickets.
* Adding servers to the domain and monitoring them using **spectrum, sitescope, cacti**.
* Developed automated processes that run daily to check disk usage and perform cleanup of file systems on UNIX environments using shell scripting and CRON.

**Environment:** Red-Hat Linux Enterprise servers, Ubuntu, Centos, BladeLogic, Veritas Cluster Server 5.0, Windows 2003 server, Shell programming, Jboss 4.2, JDK 1.5,1.6, ,VMware Virtual Client 3.5, VMware Insfrastructure 3.5.

**Brghterion Inc, SFO, CA April 2011 – Sep 2014**

**Sr. Linux/Unix Administrator**

**Responsibilities**

* Installation, configuration, administration Configured kick start server and updating/applying patches to the servers using **Redhat Satellite server**.
* Remote system administration using tools like SSH, Telnet, and Rlogin.
* Planning and implementing system upgrades including hardware, operating system and periodical patch upgrades.
* Applied appropriate support **packages/patches** to maintain system integrity.
* Performed capacity analysis, monitored and controlled **disk space usage** on systems.
* Monitored system activities and fine tuned system parameters and configurations to optimize performance and ensure security of systems.
* Coordinated development of new tools including StoryBoard
* Established developer workflow and code review process with Gerrit
* Scaled developer infrastructure as project grew and transitioned to OpenStack Foundation
* Custom build of **Windows 2003** and **Windows 2008** servers which includes adding users, SAN, network configuration, installing application related packages, managing services.
* Installed, configured AIX 5.3, 6.1 on IBM p,x series servers using NIM, creating LPARs using HMC on p series servers.
* Creating virtual machines using Xen and deploying OS, managing hardware.
* Creating, installing, Weblogic Application servers, deploying WAR, JAR files on them installed on both Linux, Solaris servers.
* Installing, configuring Jboss 4.3 on Linux, Unix servers, integrating it with Apache server.
* Jumpstarting Solaris 9, 10 on Sun servers, configuring servers. Configured/Maintained **Zones, LDOMs, ZFS** filesystem Sun Solaris 10 Servers.
* Installing, configuring **Veritas Netbackup 6.5** on linux, solaris servers, creating backup polices.
* Designing Firewall rules for new servers to enable communication with application, **Oracle 10g** servers.
* Working on Volume management, Disk Management, software RAID solutions using **VERITAS Volume manager** & **Solaris Volume Manager**. File system Tuning **and** growing using **VERITAS File System (VxFS**), coordinated with SAN Team for storage allocation **and** Disk Dynamic Multi path.
* Worked on resolving production issues and documenting Root Cause Analysis and updating the tickets using **BMC Remedy.**
* Fine tuning of Servers and configuring networks for optimum performance.
* Installation, maintenance and administration of Oracle and Db2 Server on Sun Servers.
* As a member of the team, monitored the **VERITAS Cluster Server 4.1** in SAN Environment.
* Created new groups and tested first in development, QA Boxes and then implemented the same in production Boxes.

**Environment:** Solaris 2.9 / 2.10, Red Hat Linux AS/EL 4.0, ubuntu, Centos, AIX 5.2, 5.3, Sun E10k, E25K, E4500, SunFire V440/880,Siteminder, SonicMQ 7.0

**247 Media, NYC, NY Jan 2010 - Apr 2011**

**Systems Administrator**

**Responsibilities:**

* Installation and configuring of **SUN Solaris** and **Linux** servers.
* Involved in Building and configuring Solaris 8/9/10 using **Jump start** server and Red Hat Linux Servers using **KickStart** server as required for the project. Maintained maximum uptime and maximum performance capacity for Enterprise Production, QA, and UAT/Staging.
* **Incident management** for Unix Servers (Solaris, Linux).
* Installed and configured Solaris 10 servers with **Zones** and **containers** with Sun **ZFS**.
* Primary responsibility includes building and supporting Solaris/ Redhat Linux 3,4 servers.
* Monitoring CPU, memory, iSCSI disks, disk controllers, physical disk, HW and SW RAID, multipath, file systems, network using the tools **NAGIOS** and **BMC** Tools.
* Extensive experience in installing, integrating, tuning and troubleshooting **Apache, Tomcat, WebSphere** and **Weblogic** application server.
* Implemented **SUDO, SSH** and other **security tools** and implemented **SOX** (Sarbanes Oxley) security compliance.
* Assisted in configuring the application servers with other components such as **database, web servers, LDAP directory, Active Directory, BEA Web logic etc**.
* Extensive use of **Veritas Volume Manager for Disk management, file system management** on Sun Solaris environment.
* Installation and configuration **Veritas NetBackup** on Sun Severs and performing Backup using Veritas Net Backup.
* Expertise in Linux **backup/restore** with tar including disk partitioning and formatting.
* Involved in Planning, building and Administration of various High Availability clusters and heart beat checking on Sun Solaris using **VCS** in heterogeneous SAN environment.
* Regular **disk management** like adding / replacing hot swappable drives on existing servers/workstations, partitioning according to requirements, creating new file systems or growing existing one over the hard drives and managing file systems.
* Planned, scheduled and Implemented **OS patches** on both Solaris & Linux boxes as a part of proactive maintenance.
* Worked with other IT teams, customers (users), and other managers in helping build and implement systems and standards.
* Involved in **migration** of projects from one flavor to another one.
* Involved in development, user acceptance, and performance testing, production & disaster recovery server.

**Environment:** Solaris 8/9/10,Red Hat Linux 4/5, BMC Tools, NAGIOS, Veritas NetBackup, Veritas Volume Manager,web servers, LDAP directory, Active Directory , BEA Web logic servers,SAN Switches,Apache, Tomcat WebSphere, Weblogic application server.

**Cernium, Dallas, TX NOV 2008 – DEC 2009**

**Unix Administrator**

**Responsibilities**

* Installation and administration of **RHEL 4.0/5.0** and **SUSE 10.x**.
* Configured **kickstart** server and updating/applying patches to the servers using **Redhat Satellite server**.
* Remote system administration using tools like **SSH, Telnet,** and **Rlogin**.
* Installation, configuration and administration of **VMware, Solaris Zones, Containers** and **Ldoms**.
* Automation of jobs through **crontab** and **autosys**.
* Applied appropriate support packages/patches to maintain system integrity.
* Performed capacity analysis, monitored and controlled disk space usage on systems.
* Custom build of **Windows 2003** and **Windows 2008** servers which includes adding users, **SAN, network** configuration, installing application related packages, managing services.
* Responsible for maintenance of development tools and utilities and to maintain **shell, Perl** automation Scripts.
* Expertise in VMware vSphere 3/4/5 version ESXi and vCenter operations Management.
* Worked with project manager and auditing teams to implement **PCI** compliance.
* Build **LPAR** and **DLPAR** system and Installed **AIX 5.2, 5.3** on LPAR using **NIM**.
* Installed and configured **Virtual I/O Server** V1.3.01 with fixpack8.1.
* Integrating **Weblogic** **10.x** and **Apache** **2.x** and deploying **EAR, WAR** files in Weblogic Application servers.
* Installed, configured, cloned VMs on VMware 5, Vsphere 4.0, configured ESX hosts, adding datastores to ESX hosts, creating vswitches, templates, migrating VMs across ESX hosts.
* Designing **Firewall rules** for new servers to enable communication with application, Oracle 10g servers.
* Working on Volume management, Disk Management, software RAID solutions using **VERITAS Volume manager & Solaris Volume Manager**. File system **Tuning** and **growing** using VERITAS File System **(VxFS)**, coordinated with SAN Team for storage allocation and **Disk Dynamic Multi path**.
* Fine tuning of Servers and configuring networks for optimum performance.
* Organized various meetings with teams as mentioned above for tracking their requirements as inputs to get this done and designed the plan/steps involved and took user approvals.
* Installing, configuring Nagios on Linux, Solaris clients.
* Installation, maintenance and administration of Oracle and Db2 Server on Sun Servers.

**Environment:** SUN Servers (6500, 4500, 420, Ultra 2 Servers), Solaris 2.6/2.7/8, Veritas NetBackup , Veritas Volume Manager, Samba, NFS, NIS, LVM, Linux, Shell Programming.

**Gammon, Mumbai, India June 07 - August 08**

**Unix/Linux System Administrator**

**Environment**: Sun Solaris 2.6/7, SUN Ultra Enterprise 6000/450, SUN Ultra 10/5/2/1, Windows NT 4.0, RHEL 3.x.

**Responsibilities:**

* User account management and support.
* Jumpstart & Kick-start OS integration, DDNS, DHCP, SMTP, Samba, NFS, FTP, SSH, LDAP integration.
* Network traffic control, IPSec, Quos, VLAN, Proxy, Radius integration on Cisco Hardware via Red Hat Linux Software.
* Responsible for configuring and managing Squid server in Linux.
* Configuration and Administration of NIS environment.
* Managing file systems and disk management using Solstice Disksuite.
* Involved in Installing and configuring of NFS.
* Package and patch management on Sun servers.
* Kernel tuning, Writing Shell scripts for system maintenance and file management.
* Worked on Solaris volume manager to create file systems as per user and database requirements.
* Trouble shooting the system and end user issues.
* Responsible for configuring real time backup of web servers.
* Log file was managed for troubleshooting and probable errors.
* Responsible for reviewing all open tickets, resolve and close any existing tickets.
* Document solutions for any issues that have not been discovered previously.

**EDUCATION**

Bachelors in Computer Science and Engineering,

Vellore Institute of Technology,

India

Year: 2007