# SrijanTuladhar

**UNIX/LINUX Engineer/DevOps**

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# Linux, UNIX, Puppet, VMware, AWS, Jenkins, Storage, Security, Scripting

# PROFESSIONAL SUMMARY

* **Seven years** of IT experience in **Redhat Linux**, **SUSE Linux, Centos, Ubuntu** and **AIX** administration with 3 years of emphasis in DevOps Environment.
* Installation, configuration, administration, troubleshoot, tuning, security, backup, recovery and upgrades of **IBM AIX 4.3/5.1/5.2/5.3/6.1/6.2, Win NT/2000/2003 Server**, **Linux (Red Hat & SuSe).**
* Implemented **Kickstart** for **Redhat** automated installations on VMWARE.
* Worked extensively on **DevOps** environment creating strategy in a mix environment of Redhat, CentOS servers along with **AWS cloud**.
* Working knowledge of various **AWS technologies like Elastic Load Balancer, Elastic IP’s S3, Security Groups.**
* Created Instances and managed Application in **AWS cloud.**
* Experienced working on **various DevOps tools** like **SVN GIT, Jenkins, Puppet, Docker, Maven, ANT.**
* Automated various build and deployment using **Ant and Maven.**
* Implemented **Continuous Integration** **(CI)** using tools such as **Jenkins.**
* Experienced on configuration and managing **Puppet Master Server,** and also experience in updating and creating modules and pushing them to **Puppet Client**
* Administered and Implemented **Puppet Modules and Manifests** to automate broad range of server configuration and deployment of application.
* Configuration of Volume groups, logical volumes and file systems on **Linux**.
* Managed **LVM** and file system SRC and paging space management restore and availability.
* Performed new disks addition, formatting, partitioning, disk space allocation, monitoring system performance, system tuning, server hardening and crash recovery issues.
* Package Management like **Install, remove, update** and **querying** packages using **RPM** tool.
* Daily Production support like daily log checking, backup/recovery procedures, disaster recovery, periodic maintenance and off-hours problem support.
* Administered user and password management, allocating quotas to users as well as system startup and shutdown, monitoring and portioning.
* Strong Knowledge of **Veritas Cluster Server (VCS) and Platform Cluster Manager (PCM)** to manage High-Availability and High-Performance Clusters**.**
* Proficient at configuring and maintaining **NFS, DNS, NIS/NIS+, DHCP, SMTP**
* Efficient at Perl/Korn Shell, Ruby, Python scripting.
* Experienced in **SAN** and **NAS** Management (EMC, IBM etc.)
* Define system requirements, recommend solutions, analyze capacity and modify appropriately.
* Proficient at monitoring and altering file system usage, system and hardware process failures**( Using Nagios)**
* Hands on experience on automation scripting.
* Submitted and managed parallel, serial and interactive tasks
* Worked on extensive documentation and 24X7 support role.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | Linux (Red Hat 4.x, 5.x, 6.x ), CentOS 5/6, Fedora, Ubuntu , Windows NT4.0, Windows 98/2000/2003/XP/VISTA, Open VMS |
| **Hardware** | HP DL360, DL385 G8/G7/G6/G5, Sun Fire Servers **-** E25k,E15k,12k, E280R, E480R, V240, 420R, V440, V480, V490, V880,V890 4800, E6900 and E2900. IBM - F-SERIES AND P-SERIES, IBM RS6000.  Data Centre Servers - E250, E450, E3000 and E3500, M4000,T2000, T5120.  Storage- EMC, HP, NetApps |
| **Tools** | Nagios, Zabbix, Cacti, Eucalyptus, Openstack, F5, HP SIM, Puppet, Akamai, OSSEC, IpTables, Redhat Cluster, Aicache, Memcached |
| **Devops** | Puppet, Chef, SVN, GIT, Jenkins, Docker, Ant, Ansible. |
| **Languages** | Shell scripting, Perl, Python |
| **Databases** | Oracle 11g/10g/9/8, MYSQL, Mongo |
| **Networking** | TCP/IP, DNS, NFS, NIS, SSH, DHCP, Cisco Routers / Switches and LAN |
| Web/Applications Technologies | Apache, Tomcat, Jboss |

**PROJECT DETAILS:**

**Client: Direct TV**

**Location: El Segundo, CA**

**Job Title: Linux/UNIX Systems Administrator/Engineer**

**Duration: December 2015 - Current**

* Installed, configured, maintained and enhanced operating system and system support software/hardware **Enterprise Linux 6.x, 5.x, 4.x,Ubuntu** ,**Solaris,** troubleshooting hardware, operating system, applications & network problems and performance issues.
* Installed and configured Redhat Satellite server for package transfer across servers, to store client’s system profile and to control other servers in the network
* Installed and configured various flavors of Linux like **Red hat, SuSE** and **Ubuntu**.
* Monitored trouble ticket queue to attend user and system calls, participated in team meetings, change control meetings to update installation progress, and for upcoming changes.
* Implemented **AWS** solutions using **EC2, S3, RDS, Elastic Load Balance, Auto scaling, and EC2 instances.**
* Installed, configured and Administered **Jenkins; Continuous Integration tool**
* Created multiple instances in **AWS cloud** and monitored scalable infrastructure in **AWS**.
* Worked on migration of application from physical to **AWS cloud.**
* Installed and configured **Nagios** and **used Nagios** of Monitoring
* Used **GIT and SVN** as a version control tools.
* Installed and configured configuration management tool **Puppet**.
* Installed, configured and managed **Puppet Master/Agent**.
* Created **Puppet modules** to manage and automate installation process across the infrastructure.
* Created **Puppet Manifests** to manage configuration files for Multiple applications
* Deployed patches for Linux and application servers, **Red Hat Linux** Kernel Tuning.
* Network trouble shooting using **'netstat', 'ifconfig', 'tcpdump', ‘vmstat’, ‘iostat’** and others.
* Installed and configured **DHCP, DNS**, web (Apache, IIS), mail (**SMTP, IMAP, POP3**), and file servers on **AIX** and **Red Hat Enterprise Linux** servers.
* Worked on **Veritas Cluster Server (VCS) and Platform Cluster Manager (PCM)** to manage High-Availability and High-Performance Clusters**.**
* Facilitate load balancing and building vservers with high availability and using and creating distribution groups
* Monitored the whole Exalogic infrastructure.
* Configured **kickstart** server and updating/applying patches to the servers using **Redhat Satellite server**
* Installed and administered **Red hat** using **KVM, Xen** based hypervisor.
* Experienced in installing and managing **NFS, FTP** and **Samba** for file sharing.
* Wrote Bash, Shell, Ruby and Python Scripts.
* Worked on Installation and Configuration of web and application servers like **Tomcat, Apache, WebLogic, JAVA, and J2EE.**
* Day to day tasks in **Red Hat Linux** including upgrading rpms, kernel, HBA driver, configuring SAN Disks, multipathing and LVM file system.
* Installation and administration of Veritas Cluster Manager (VCM), Veritas Volume Manager (VVM).
* Performed system administration tasks like system monitoring, performance usage, network support, and user support.
* Created and scheduled cron tasks for file update, system back up or removal of unnecessary files.
* Deployed latest patches for Linux and Application servers, and performed **Red Hat Linux** Kernel Tuning.
* Linux Kernel, memory upgrades and swaps area and performed **Red Hat Linux kick start** installations.

**Environment:** REDHAT 6.x,5.x, Ubuntu, CentOS, SMSAP, TSM, Cisco Switches, P6/P7 hardware, HACMP Clusters, Puppet, AWS, GIT, SVN, Jenkins, PowerHA, SAN, NIM, IBM HTTP server, WAS 4.0/5.0, VERITAS, DB2, Oracle, PeopleSoft, Shell scripts, Ruby Python.

**Client: Wells Fargo**

**Location: Phoenix, AZ**

**Job Title: Linux/UNIX Systems Administrator**

**Duration: September 2014–November 2015**

**Responsibilities:**

* Installation/Maintenance of Hardware/Software in Production, Development & Test Environment as an integral part of the Unix/Linux (**RHEL 5.x / 6.2,SuSE/AIX**) Support team.
* Worked on installation, configuration and maintenance of **Red Hat, Cent OS, UBUNTU,** SUSE, AIX, Solaris and Windows servers.
* Administered **Jenkins** for managing weekly build, test and deploy cycle.
* Assisted team with automated centralized configuration using **puppet.**
* Designed and implemented fully automated server build management monitoring and deployment using **Puppet**.
* Wrote **Puppet modules** to manage configuration and automate the installation process.
* Wrote multiple **manifests** and customized facts for efficient management of the **puppet** clients.
* Worked with Sub versioning tools like **SVN and GIT**
* Configured and automated **Jenkins** Build jobs **for Continuous Integration**.
* Managed Applications **in AWS Cloud** and have created Instances as per the client requirement.
* Installed and configured Redhat Satellite server for package transfer across servers, to store client’s system profile and to control other servers in the network.
* Experience with **kick start** installation on multiple servers.
* Implemented day-to-day tasks in **RedHat Linux** that include upgrading rpms, kernel, HBA driver, configuring SAN Disks, multipathing and LVM file system
* Installed, configured, maintained and administered the network servers **DNS, DHCP, NIS, NFS, SENDMAIL.**
* Experience with installation and maintenance of **NFS, FTP** and **Samba** for file sharing.
* Built Linux servers using **VMware ESX** and **VMware ESXi.**
* Experience in creating Control channel, Shared Ethernet adapter and configuring them on the network.
* Set up repositories for Redhat, implemented **YUM, SSH** and other security tools.
* Daily system monitoring using commands like vmstat, iostat, top, tcpdump, defrags and so on for efficient server operation.
* Package management like Install, remove and update and querying packages using **RPM** tool.
* Used **Samba** to print and share files in mixed Environment.
* Experience with installation of **Tomcat** and **Apache Web Servers** on **Red Hat** Production Servers.
* Involved in extensive trouble shooting the issues by finding out root causes, analyzing core dumps and resolved system crashes.
* Experienced with user account, group account creation, management and allocation of quotas for users and groups as instructed.
* Provided 24/7 on call supports in debugging and fixing issues related to **Redhat** and **SuSE Linux.**

**Environment :** Linux (RHEL 4.x &5.x), AIX 6.1, Oracle 11/10g, SUN Servers, SUN Fires, Samba, Perl, Shell Scripting, Bash, SUSE 11/10Veritas Volume Manager (VVM), F5 Load balancers, SiteMinder5.5/4.5, EMC Storage SAN, Veritas Cluster Server (VCS).

**Client: Capital One**

**Location: Richmond, VA**

**Job Title: Systems Engineer**

**Duration: February 2013-August 2014**

**Responsibilities**:

* Installation, Configuration and upgrade of **RedHat Linux 4/5/6.2, Suse Linux, Ubuntu.**
* Performed setup and configuration of **Install Server, Configuration** **Server** and **Boot Server** for **Kickstart** process.
* Good experience in installation, configuration and maintenance of **Linux.**
* Involved with **Devops team** working on various tools like **Puppet, Jenkins, SVN and GIT**.
* Assisted **Devops Team** with installation and configuration of **Puppet**.
* Involved in writing **puppet modules** and **Manifests** as per the client requirement for automation of various services.
* Assist team with migration from **Physical to AWS cloud.**
* Experience in configuring and trouble shooting of **Kickstart services** on multiple servers.
* Experience in **System monitoring**, **Performance tuning** and OS hardening to secure the Solaris environment.
* Administered tasks like **user** and **password** management, allocating quotas to users as well as system **startup** and **shutdown**, **monitoring** and **partitioning**.
* Creation of Backup accounts for new users and Deletion of accounts for retired or unavailable users.
* Experience in configuration of **NFS** and Naming services like **NIS** and **DNS**.
* Implemented file sharing on the network by configuring **NFS** on the system to share essential resources.
* Implementation of **RAID** techniques and creation of **Disk groups** and **volumes** using **Veritas Volume Manager.**
* **Patch** and **package** **administration** for installation of **patches** as per the company policy and installation of packaged application.
* Production support of Apache including installation, configuration, management and troubleshooting
* Having production experience supporting and deploying to web application servers such as **BEA WebLogic, Red Hat JBoss, Apache, Tomcat, and Apache HTTPD servers.**
* Installation, Configuration and Administration of **Weblogic, Websphere and Apache Servers in Linux**.
* Worked on **VMWare** for testing various applications on different operating system.
* Experience of **Storage Area Network/SAN**.
* Implemented configuration management with Puppet.
* Implementation of RAID techniques and creation of Disk groups and volumes using Veritas Volume Manager.
* Created System Disk Partition, Mirroring root disk drive using VERITAS Volume Manager.
* Maintained and recycled backup Tapes upon request from company.
* Configured VERITAS Cluster Server (VCS), fail over test of VCS groups, added/

modified VCS resources such as File Systems.

**Environment:** Red Hat Linux 4.0,5.0, AS ES, AIX 6.1,4.3,5.1,5.2,5.3, HP-DL585, HACMP 5.5,4.2.x,4.3,4.3.1,4.4 , Veritas Netbackup, SAN Storage, 4.5.5, Puppet, Jenkins, AWS, IBM-z/VM, Oracle 9i/10g, Samba, NT/2000 Server, Websphere, Web Logic 8.1, VMware ESX 2.x, LPAR, DLPAR ,Tomcat 3.x,4.x,5.x,6.x Apache Server 1.x,2.x, Korn, Bash.

**Client: Comcast**

**Location: Philadelphia, PA**

**Job Title: Systems Administrator/Engineer**

**Duration: September 2011- December 2012**

**Responsibilities:**

* Installation, Configuration & Upgrade of **Redhat Linux**
* Used **Kickstart for Red Hat** for automated installations and **VMWARE**.
* Solved real time issues with the help of engineers and co-workers.
* Involved in decommissioning servers project as per the company procedures and update the hardware inventory database.
* Installed, Upgrade and Manage **packages** through **RPM** and also take care of dependencies.
* Installed and maintain puppet-based configuration management system
* Deployed Puppet, Puppet Dashboard, and PuppetDB for configuration management to existing infrastructure.
* Deployed m-collective for orchestration.
* Implemented configuration management with Puppet.
* Replicated several Unix/Linux servers depending upon the requirement and availability
* Configured **kickstart** server and updating/applying patches to the servers using **Redhat Satellite server**.
* Installing, administering Redhat using **Xen, KVM** based hypervisors.
* Installed RHEL 5.x on x86 servers.
* Installed, configured and maintained **Redhat Satellite Servers** for different applications.
* Performed Linux kernel, memory upgrades and undertook Red hat Linux **Kickstart** installations.
* Involved in development, user acceptance, and performance testing, production & disaster recovery server.
* Created users, manage user permissions, maintain User & File System quota on Redhat Linux
* Installed and configured **VERITAS Volume Manager, Solaris Volume Manager.**
* Installation and configuration of **Logical Volume Manager on HP-UX and Linux.**
* Very good working experience on **Redhat Satellite** Server upgrading and patching.
* Building Linux servers by using **VMware ESX 3.0** and also involved in channels and pushing the packages in Redhat Satellite Server.
* Implemented upgrade of servers **using Redhat Satellite Server**.
* Monitored system activities and fine-tuned system parameters and configurations to optimize performance and ensure security of systems.
* Backup management and recovery policies using **VERITAS Net-Backup**.
* Daily task include growing, creating of **VERITAS** volumes and file system on San storages.
* Implemented **SUDO,SSH and other security tools and implemented security** compliance.
* Installed VMware ESX server and configured Solaris 9/10/ Red Hat Linux 5.x / Windows 2003 virtual machines for various applications.
* **Kernel parameter** changed in Solaris **and Linux** environment.
* Created **User, Groups. File Systems** per database requirement.
* Worked on **NIS, NIS+ to LDAP** transition.
* Creation and scheduling of **Cron Jobs** such as for **Backup, System Monitoring** and removal of **unnecessary files**.
* Worked with other IT teams, customers (users), and other managers in helping build and implement systems and standards.
* **Planning** and **implemented Disaster recovery** sites from the scratch.
* Involved in **Disaster recovery** testing every quarter.
* Develop, Maintain, update various script for services (start, stop, restart, recycle, and cron jobs) **UNIX based Korn shell, Bash**.
* Troubleshooting various **problems, logging call with vendors**.
* Possess creative problem solving & sharp analytical skills.
* Supported 24/7 highly available critical system and involved in on-call pager rotation for **production support**.
* Demonstrated skill in **supporting end users and proven ability to plan, organize and work** as a member of a **technical project team, both in small groups as well as large corporate areas.**

**Environment :** Red Hat Linux (RHEL 5/6), Logical Volume Manager, Veritas Cluster Server, Global File System, Red Hat Cluster Servers, Oracle, mysql, ,AIX 5.3L,Windows, Veritas Volume Manager, Veritas Net backup, Ksh/Perl programming, DNS, NIS, NFS, Apache, Tomcat, CA IT Client Manager (CA ITCM) , CA Patch Manager ,CA Service Desk Manager ,Varnish servers 2.1.4 , 2.1.5,windows server 2000,2003 ,2008, VMware ESX 2.x,HP-UX.

**Client: Nokia**

**Location: Irving, TX**

**Job title: UNIX/ LINUX Administrator**

**Duration: August 2010 – August 2011**

**Responsibilities:**

* Installing, configuring and upgrading **Linux (Primarily REDHAT and UBUNTU)** and **Windows Servers**.
* Installing and partitioning **disk drives.** Creating, mounting and maintaining file systems to ensure access to system, application and user data.
* Data consistency of file system using **fsck** and other utility.
* Co-coordinating with the customers vendors for any **system up gradation** and giving the exact procedure to follow up.
* Scheduling the daily/weekly/monthly **backups.**
* **Amended** existing scripts as well as wrote new Bourne and Korn scripts related to recurring administration jobs.
* **Patching** up the system to the latest version as per the recommendations.
* Monitor the health of the **servers, Operating system, database** and the **network.**
* Maintenance of **Hard disks** (Formatting and Setup, Repair from crashes).
* Installing & administering **NFS services** using **automounter.**
* Regular disk management like adding/replacing hard 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.
* Creating **users, assigning groups** and **home directories**, setting **quota** and **permissions**; **administering** file systems and recognizing file access problems.
* Maintaining appropriate **file** and **system security, monitoring** and **controlling system access,** changing permission, ownership of files and directories, maintaining passwords, assigning special privileges to selected users and controlling file access, monitoring status of process in order to increase the **system efficiency, scheduling system related** and **cron jobs.**
* Build and maintain windows 2000 and 2005 servers.
* Managed windows servers, configured domain, active directory; created users and groups; assigned permission to the groups on the folders.
* Setup LANs and WLANs; Troubleshoot network problems. Configure routers and access points.
* Installed NIM, set up NIM servers, clients, defined the resources, alternate disk migration with NIM.
* Worked on migrating from Windows 2000 to 2005.
* Allocated disk space using EMC disk storage.

**Environment:** RedHat Linux 3.9/4.5-4.7, Windows 2000/NT 4.0, Apache 1.3.36, 1.2, 2.0, IIS 4.0 and Oracle 8i, bash/ksh shell, Samba, DNS, APACHE, MAIL, DHCP & FT

**Client: Jyoti Group**

**Location: Kathmandu, Nepal**

**Job title: UNIX/LINUX Administrator**

**Duration: September 08 – July10**

**Responsibilities:**

* Installed, administered and maintained **RHEL, CentOS, Ubuntu SLES 9,10** servers.
* Responsible for AIX **v5.x** system administration tools, commands and utilities and
* Responsible for Installation, Configuration Management, Maintenance and Systems Development of AIX Systems.
* Configure **File Systems** and administer using Network File Services (**NFS)** and Network Information Service (NIS).
* Installed, configured and maintained the Linux Servers, NIS, DNS, Mailing list , Send mail, apache, ftp and sshd.
* Worked with DBAs on installation of RDBMS database, restoration and log generation.
* Extensive experience in UNIX performance Tuning and UNIX security fundamentals.
* Experience in logical volume management and disk management.
* Responsible for taking system backups mksysb, mkcd, savevg and savevgcd also make system backup through NIM, making archives of files and folders.
* Responsible for **NIM installation**, setting up NIM servers, clients, define the resources, Alternate Disk **Migration with NIM**.
* Maintain **User profile, group creation and X-term** settings.
* Responsible for determining **hardware** and **compatibility requirements** for installation of application software and different tools for **OPTIMIZATION.**
* Performed TCP/IP, DNS and DHCP administration.
* Performed all aspects of UNIX server administration including installing and maintaining the operating system software, performance monitoring, problem analysis and resolution and production support.
* Worked on troubled shooting in GPFS nodes.
* Enabled **security using the LDAP registry** by assigning different roles to different users and groups.
* Performed **User Account management, data backups**, and users’ logon support.
* Involved in **trouble shooting and performance tuning** using Tivoli **Performance Viewer.**
* Configured **SSL** and created SSL Certificates using **key management utilities** to implement security for the communication between web server and the Application Server.
* Performed TCP/IP, DNS, and DHCP administration.
* Involved in deploying the EAR files and scripting automated deployment of the applications.
* Provided **24x7** support on shift rotation basis.
* Supported Workload management (WLM), Micro-Partitioning, clustering and load balancing.
* Experienced shell scripting to automate administration jobs including backups for Websphere administration repository.
* Installed Power Path and administered EMC storage.
* Installed, configured and troubleshoot IBM Websphere MQ Series 5.1 /5.2 /5.3, Weblogic 8.1 SP 5, 9.2.
* Performed routine LVM tasks like replacing failed drives, adding new volume groups, extending volume groups/ LVM /file system, exporting and importing volume group for hardware migration.
* Experience in other system administration tasks as system monitoring, performance usage, network support, and user support.
* Managed cron jobs, batch processing and job scheduling.
* Installed and configured SAMBA server for Windows and Linux connectivity.

**Environment:** Linux **(**RHEL 4.8 & 5.1-5.4), CentOS (4.7-4.8 & 5.1-5.3), Ubuntu, Oracle 11/10g, HP Servers, HP SIM, Cacti, Zabbix, OSSEC, Centreon/Nagios Monitoring, Apache, Tomcat, Python, Shell Scripting, Bash, RedHat Cluster, F5 Load balancers, Net Apps, LDAP, EMC Storage SAN.