**VANISH RAO**

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# Summary:

* UNIX / Linux Admin with more than 8 plus years of industry experience into Linux, Solaris, VMWare and AIX.
* Excellent knowledge of Linux including Red Hat Enterprise Linux, Scientific Linux, CentOS, Debian.
* Hands on experience on SAP implementation on Linux and Windows servers.
* Worked extensively in planning, designing, installing and configuration and implementing on Sun Solaris 9, 10, 11; RHEL 4,5,6,7
* Experience working on system automation using scripting
* Datacenter migration and Tech refreshes
* Experience with various UNIX systems including building of servers, migration, production support, data center support, packaging, automation, troubleshooting and security hardening of servers.
* Experience with managing and integrating with virtualization solutions (VMware, LDOMs, Zones)
* Experienced in configuring and administering NFS, NIS and FTP with very good understanding of networking protocols such as TCP/IP, DNS.
* Experienced with SAN, NAS and storage administration, with EMC Clarion & DMX storage. Configured Sun Multi-Packs, Storage Arrays, T3’s and SAN backup for disaster recovery.
* Hardware:

Sun Fire 280R/V480/4800/880/15K/T5-4, M5000, HP Blade servers, Dell PowerEdge servers, Fujitsu Prime-power (SPARC)

* Worked with VERITAS Cluster, Sun cluster, Oracle RAC
* Implemented Puppet modules to automate configuration of a broad range of services.
* Running security scans and remediating Servers to meet enterprise standards.
* Implemented anti-spam technology based on open source applications on Linux servers.
* Experience with IBM Middleware & Information management technologies namely WebSphere Application Server, WebSphere Commerce Server, and Tivoli in a multiplatform environment.
* Installing, configuring, and maintaining Samba Web Servers, WebLogic and WebSphere Application Servers, and Oracle, SQL and Sybase, Oracle RAC database technologies.
* Moving RHAS machines from physical to virtual including VMware ESX 3.5 and VSphere 4.0.
* Installing and upgrading VMware tools on client machines.
* Installed and configured KSAR 5.0.4 for system activity in the RHEL 4 and 5.
* Experience in configuring and maintaining NAS and SAN storage.
* Managed Patches, Upgrades and Licensed Products for System software on all flavors of UNIX and Linux Servers.
* Supported Disk Volume Management – creating volume and Logical Volume Manager.
* 24X7 on-call production support and troubleshooting problems related to RHEL and SUSE Linux.
* Experience in Troubleshooting issues related to upgrades of VCenter and ESXi and vSphere update manager.

**TECHNICAL SKILLS:**

**Databases:** Microsoft SQL server, Sybase, MySQL, Oracle RAC 7.x/8.0/9i.

**Hardware:** HP ProLiant DL 360, 380, 580, 980, G3, G4, G6, G7, Dell PowerEdge 2850, 2950, Intel X64 based servers, 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.

**Server Monitoring Tools:** Service Now, HP Open view, Nagios, HP Site scope

**Networking:** NIS, NFS, DNS, SSH, CISCO Switches/Routers/Access Points and Firewalls.

**Protocols:** TCP/IP, IPv4, IPv6, FTP, SFTP, SCP, SSL, ARP, DHCP, LDAP, TFTP, RARP.

**Virtualization:** VMware, Virtual Box, XEN, KVM, Docker, Hyper-V, Open stack, VSphere Client.

**Storage Devices:** VVM 3.1/3.2, RAID Manager, NAS, SAN.

**SAN:** EMC, HDLM, NetApp, DMX, VMAX, Hitachi arrays.

**Monitoring Tools:** Nagios, Tivoli, Chef, Puppet and Ansible

**Volume Management:** Red Hat LVM, VERITAS Volume Manager.

**Operating Systems:** Red Hat Linux 4, 5, 6, 7, Solaris 8, 9, 10, HPUX 11i V1, V3, VMWare ESX 3, 4, 5, SUSE 9, 10, Centos 4, 5, Fedora 12, 14, 16, Debian 5, 6,7, Ubuntu 11, 12.

**Programming Languages:** Shell scripts KSH, CSH, BASH, HTML and PERL.

**TIBCO PRODUCTS**: EMS, RV, and related routing channels via RGB, and IBM MQ.

**EDUCATION:**

Gnyana Saraswathi college of Engineering and technology (Nizamabad, India) B. Tech Information Technology - 2009

**EXPERIENCE:**

Time Warner Cable, Andover, MA*- HP Unix Engineer* Sep 2015 – July 2017

* Installation of RHEL (Red Hat Enterprise Linux) 5.X, 6.X, 7.X administrator and server maintenance
* Using and configuring Red Hat Satellite server, Yum repositories and Troubleshooting activities.
* Experience in Installation, configuration, patching, support to application and web server.
* Administering Open stack environment.
* Built Solaris servers , including LDOMs and Zones
* Worked with backend multi-TB storage systems such as EMC, Netapps, Hitachi using Volume Managers such as LVM, ZFS/ZPOOL, VERITAS Volume Manager.
* Migration of DC and re-platforming of applications and DBs for tech-refreshes and consolidations between various Unix flavors (Solaris, RHE Linux, AIX)
* Bash scripting supporting Linux and Solaris servers
* Good experience working with Java and C programming languages.
* UNIX Admin and work on network implementation as in TCP/IP DHCP, SIP, NTP, IPV6 and RTCP and TIBCO based implementation
* Involved in support and maintenance of HP ProLiant servers, HP blade systems, Dell PowerEdge Servers, Sun Fire V series, T series and M-series servers
* Diagnosis and maintenance of hardware issues involving single and multiple point failures, working with vendors for H/W replacements
* Involved in standardizing Splunk forwarder deployment, configuration and maintenance across UNIX platform.
* Installed and configured Splunk DB Connect in Single and distributed server environments.
* Installed Splunk DB Connect 2.0 in search head cluster environments.
* Proficient working experience with vendors like HP, Oracle, Dell, VERITAS and Red Hat for troubleshooting issues.
* Modified UNIX scripts to accommodate new requirements for DB2 and system backup, and background process in SAP.
* Creating and managing Virtual Machines and Templates on VMware ESX (4.x, 5.x)
* Worked with clones and snapshots of Virtual Machines on VMware 5.x
* Support GUI and autofs mounts, installing packages using yum and AD authentication on Linux.
* Worked on updating the workstations through spacewalk. Using spacewalk to patch, monitor and provision workstations and servers.
* Expertise in managing Virtual Linux servers running on VMWare ESX 4/5.
* Actively involved in Change board meetings and responsible for creating changes and implementing them mainly in Production environment.
* Currently working on server build activities which involves building Red Hat Enterprise Linux 6 and 7 servers in both Physical and Virtual platforms and procedure documentation.
* Experience installing, configuring, tuning, and supporting Linux servers.
* Installed and configured DNS Server for training and Configured DHCP.
* Involved extensively in virtualizing and managing them using VMware and VCenter VSphere.
* Worked with Business Analysts, Rule Authors and Policy Managers to define the rules and the goal of BRMS tool.
* Experienced in recovering OS from VM snapshots and working on Maintenance mode through VM console.
* Perform Backup and restore using VERITAS Netbackups. Restored files for end-users when necessary.
* Work on implementation of security controls and monitors compliance with security policies and procedures (PCI, SAS70, HIPAA, DSS, etc).
* Experienced in tasks like managing User Accounts and Groups, managing Disks and File Systems.
* Experienced in creation and maintenance of user accounts and active directory.
* Perform tasks related to technical support & management.
* Worked on Analyze system performance, client to server traffic and server to server traffic.
* Experience with various ticketing tools and currently using Service Now for everyday support.
* **Environment:** RHEL 5.X, 6.X, 7.X, LDOMs, LVM, ZFS/ZPOOL, VERITAS Volume Manager, Solaris, RHE Linux, AIX, VMWare ESX 4/5, DNS, DHCP, VERITAS Netbackups, VCenter VSphere. Yum, Netapps, Hitachi, HP ProLiant servers, HP blade systems.

## 3M Corp, Minneapolis, MN *– Linux/Unix Engineer*

Feb 2014 - Aug 2015

**Roles and Responsibilities:**

* Installing and configuration of operating systems like Red hat Enterprise Linux 5/6 and Solaris 10.
* Experience in Build servers, configured, installed tools, installed patches and transitioned servers to production support.
* Experience in support instances running Fedora, Debian, Ubuntu, Centos and Red Hat Linux.
* Experience in supporting Red Hat Cluster and Oracle RAC environment running Oracle databases in High Availability.
* Experienced in automation of Linux using kick start on Physical and VMWare ESX VM's.
* Experience creating and managing HP ProLiant DL G4, G5, G6, G7, and C7000 Enclosures and Blade servers.
* Experience in Manage file systems using Software RAID and recover an array, Manage file systems using Logical Volume Management, Resize file systems and protect them with LVM Snapshots.
* Experience in scritping using Java and c Programming languages.
* Experience in automation using scripts in Perl and also shell (bash and korn).
* Expertise in managing Virtual Red Hat Linux servers running on VMWare ESX 4/5.
* Experience performing SAN provisioning to Linux and ESX servers from EMC SAN arrays VNX and Clarions.
* Experience in SAN migrations at Host level on RHEL, HPUX and Solaris servers using Open Migrator, Open replicator and RHEL LVM and VERITAS commands.
* Integration of the POS with the BRMS
* Web services deployment of the BRMS, BRMS & LXI Tape and Backup management
* Work on implementation of security controls and monitors compliance with security policies and procedures.
* Knowledge about Splunk architecture and various components (indexer, forwarder, search head, deployment server), Heavy and Universal forwarder, License model.
* Worked on setting up Splunk to capture and analyze data from various layers Load Balancers, Web servers and application servers.
* Experience supporting single sign on authentication using LDAP on Linux environment.
* Work for creation and maintenance of user accounts and active directory.
* Configured Kick start servers to install Red Hat Linux and VMWare ESX on multiple machines.
* Mainly Elastic search and the ELK (Elastic search, Log stash, Kibana) stack. Python application monitored Oracle applications for specific errors and converted log updates from various formats to JSON for efficient indexing. Implemented ELK.
* Experienced in Installed patches to latest patch level, applied patch cluster and installed software packages as needed.
* Experienced in Creating user accounts, user administration, local and global groups on ESX and Red Hat Linux platform.
* Experience in Disk mirroring and RAID implementation using VERITAS Volume Manager and Linux Volume Manager.
* Experience in working with configuration management tools like puppet.
* Experienced in Installing VERITAS Volume Manager and Power path on Red hat Linux servers.
* Experience in Installing, configuring, and administering DNS, NFS, NIS, Mail servers, FTP servers RPM servers on Red Hat Linux platforms.
* Resolving regular tickets on Hawk, Syswatch and ping probe Monitoring tools using site scope.
* Controlling the System Logging services, and examining system Log Files of all system events.

**Environment:** Red hat Enterprise Linux 5/6 and Solaris 10, Fedora, Debian, Ubuntu, Centos, RAID, Scripting ,Bash and Korn shells, RHEL LVM , ELK, Splunk, VERITAS , DNS, NFS, NIS, Mail servers, FTP servers RPM servers.

## Home Physicians PC, Canton, MI *- Linux/AIX Administrator*

Oct 2012 - Jan 2014

**Roles and Responsibilities:**

* Experience in Installation of Red Hat Enterprise Linux 4/5/6, Debian, Ubuntu, AIX, on hardware like HP and Dell & Solaris 9, 10 operating systems on SPARC platforms.
* Proficient in patching RHEL, AIX and Solaris servers to recommended security levels. Maintaining and upgrading operating systems like RHEL and AIX platforms.
* Performed volume management tasks like mirroring using SVM, VERITAS Volume Manager 4.x/5.x and LVM.
* Proficient experience in Server builds, post builds and installations with co-ordination with application and Oracle RAC database teams.
* Provided day to day support to RHEL and AIX servers through various ticketing tools and monitoring tools like Service Now.
* Experience in working with Splunk authentication and permissions and having significant
* Expert in installing Splunk apps for Linux and UNIX environments.
* Knowledge on Configuration files in Splunk (props.conf, Transforms.conf, Output.conf)
* Automation /build tools: Jenkins, Puppet, chef, Git.
* Worked with Analytics team to design and set up data pipeline using Kafka, Elastic (Elk) Stack and AWS Lambda.
* Supported Oracle DB and Oracle RAC on Red Hat Linux environments.
* Worked with VERITAS Foundation Suite 5 and performed tasks like creating disk groups, volumes, initializing disks, replacing failed disks etc.
* Experience in Installation , configurations and providing daily troubleshooting and support to IBM Tivoli storage manager
* Worked with EMC Power path, Hitachi HDLM in SAN related environments.
* Experienced in Installed and configured VERITAS, Net Backup and TSM on Red Hat Enterprise Linux.
* Configured kick-start server and updating/applying patches to the servers using Red Hat Satellite server.
* Experienced with **log management** tools like **ELK** and **Splunk**.
* Administration of DevOps tools suite: **Team city, Git Hub, JIRA, Confluence, Puppet, Octopus Deploy**and **ELK** stack.
* Monitoring apps servers using **ELK**– Elastic search, Log stash and Kibana for debug and logging.
* Creation, Installation and administration of Red Hat Virtual machines in VMware Environment.
* Implemented ELK (Elastic Search, Log stash, Kibana) stack used to collect and analyze the logs produced by the spark cluster.
* Deployed Red Hat Satellite Server with custom repositories to provide a stable management solution for Linux environment.
* Configured Kick start servers to install Red Hat Linux and VMWare ESX on multiple machines.
* Experienced in Manage file systems using Software RAID and recover an array, Manage file systems using Logical Volume Management, Resize file systems and protect them with LVM Snapshots.
* Experience in Disk mirroring and RAID implementation using VERITAS Volume Manager and Linux Volume Manager.
* Worked on Upgrading of VMware ESX 3.0.0 to ESX 3.5.
* Creating virtual machines using KVM hypervisor on Xen servers, installing Red Hat using kick-start and Cobbler
* Assisted in resolving hardware issues and network connectivity issues related to TCP/IP.
* Experienced in Installed and configured DHCP, DNS, and NFS.
* Worked on Implemented SUDO, SSH and other security tools and implemented SOX (Sarbanes Oxley) security compliance.
* Troubleshooting on Sun Java System Web Server 6.0 and Apache 1.3.x web server on Solaris with experience in installing SSL certificates.
* Experienced in creation and maintenance of user accounts and active directory.
* Worked on Configured NFS and Open LDAP services in Red Hat Linux and Solaris systems.
* Experience in Monitoring CPU, memory, iSCSI disks, disk controllers, physical disk and RAID, multipath, file systems, network using the tools NAGIOS and BMC Tools.
* Work on implementation of security controls and monitors compliance with security policies and procedures.
* Experienced in Utilization and Implementation of VMware at the full implementation range using the complex features of VMware connectivity with SAN, HA and DRS configuration.
* Modifying/ Writing scripts in Bash and Korn shell for optimizing day to day tasks.

**Environment:** RHEL 4/5/6, Debian, Ubuntu, AIX, Solaris 9, 10, SVM, VERITAS and LVM, Server builds, Oracle DB, Oracle RAC , RAID, DHCP, DNS, NFS, SUDO, SSH, ELK,VMware ESX, TCP/IP, Sun Java System ,Splunk, Apache, NAGIOS and BMC, SAN, HA and DRS

## Walgreens, Minneapolis, MN *- Linux Administrator*

Dec 2010 - Sep 2012

**Roles and Responsibilities:**

* Installed, upgraded, Mirrored and configured RHEL 4.x and Sun Solaris 10/9.0/8.0 using Kickstart, Jumpstart Installation respectively.
* Experience and good troubleshooting skills in JBoss 5.0
* Planning, Testing, Installation, Tuning, and general administration of the following technologies: WebSphere Application Server ND 7.x, Apache based web servers IBM HTTP Server, SOLR, Mod\_security Application Firewall
* Upgraded Solaris 8 to 9 and 9 to 10 on Sun servers and workstations. Added necessary patches using patchadd utility and scripts.
* Controlled disk operations, disk group operations, volume operations and volume configurations using vxdisk, vxdg, vxassist, vxmake and vxvol in VERITAS Volume Manager.
* Configured Printers, Print Server and Print Clients using commands like lp, lpstat, lpadmin, lpfilter & GUI.
* Configured and administered Samba to provide file services, resolved various inter-operability issues between Windows NT & Solaris platforms.
* Installation, Setup and Configuration of WebLogic 9.0/8.1 application server.
* Disk Management using different RIAD technologies in Solaris and Linux using Veritas Volume Manager and LVM.
* VERITAS Cluster Installation and Configuration along with Resources and Service Groups Configuration in VCS.
* Configuration and administration of DNS, LDAP, NFS, NIS and Samba in Red Hat Linux, and Sun Solaris.
* Network trouble shooting using ndd, traceroute, netstat, ifconfig and snoop.
* Administered and Managed Network Applications and Services like NFS with Hummingbird connectivity V7.1.
* Involved in Configuring DHCP server and giving IP addressing dynamically.
* FTP Server configuration in Linux and done kernel tuning on Linux for play out software.
* Involved in creating new users, groups and setup their home directories and appropriate access restrictions to software and directories & files using access modes.
* Written Shell scripts to run Batch Jobs on Sun Solaris and Red Hat Linux servers.
* Provided system performance reporting on a regular basis along with keeping all software at current version levels, and maintaining a log of changes for tracking.

**Environment:** RHEL 4.x, Sun Solaris 10/9.0/8.0, DHCP, DNS, LDAP, NFS, NIS and Samba, VERITAS Volume Manager and LVM, vxdg, vxassist, vxmake , vxvol, Kickstart, Jumpstart, JBoss 5.0.

## Computer Sciences Corporation, India *- UNIX Administrator*

June 2009 – Nov 2010

**Roles and Responsibilities:**

* Installed, configured and managed Solaris 8, 9 and 10 on Sun Enterprise systems (Sparc and X86), Administered, maintained Red Hat Linux Release 4 and 5
* Patching Sun Solaris 10 servers with latest patch clusters, breaking mirrors, and re-mirroring.
* SAS70 and SOX security audits
* VTL support from OS (HBA compatibility, firmware updates)
* Troubleshooting Hardware, Operating System Application & Network problems and performance issues.
* Configured Jumpstart Enterprise Tool kit to provided Jumpstart installations on more than 270 servers and performed upgrades and troubleshooting of servers remotely.
* Configured and Administering Linux Kick Start server using NFS, FTP and HTTP method.
* Support Sun Sparc and HP Blade servers with Solaris and Linux operating systems
* Installed and configured Solaris 10 servers with Zones and containers on SUN M5000 and T2000 Servers with SUN ZFS
* Server Virtualization using Solaris Containers (zones) and VMWare.
* Creating Sun virtualization zones/containers/LDOMS(logical domains )
* Installation, configuration, troubleshooting, start, stop, upgrade and application deployments (e.g. apache, iplanet, SunOne, TSM agent, Tivoli agent) on production and testing servers.
* Created NFS, UNIX admin mount point, and patch installation of all QA servers.
* Installed, Configured and supported Oracle HA resource groups
* Worked on CA NSM tool monitoring for monitoring various applications and networks.
* Installing and configuration and maintenance of VERITAS Netback up 4.5/5.1 and TSM
* Implemented and configured Backup policies and Storage Units.
* **Environment:** Solaris 8, 9 and 10, Sparc and X86, Patching, SUN ZFS, apache, iplanet, SunOne, TSM agent, Tivoli agent, NFS, VERITAS Netback up, TSM, LDOMS, SUN ZFS.