**Venugopalyadav Dandu**

**Sr. Linux/Unix Engineer**

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**PROFESSIONAL SUMMARY:**

* Over**8**years of experience as a Linux/Unix Engineer working on Data Center Migration, Production Support and Scripting.
* Installation, configuration and performance troubleshooting of Red Hat Enterprise Linux (RHEL 5, 6, 7) and Solaris 10, 11 with AIX and VMware
* Experienced in AWS Cloud platform and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, Cloud Trail, CloudFormation AWS Config, Autoscalling, CloudFront, IAM, and S3.
* 24/7 Production support for on-call on RHEL and Solaris environments.
* Disk Management using a variety of volume managers such as Veritas Volume Manager, Logical Volume Management (LVM), ZFS, OCFS, ASM, SVM, etc
* Excellent knowledge of **Shell Scripts, PERL scripts, Ruby scripts and Python Scripts**.
* Strong experience in System Administration , Installation, Upgrading , Patches , Migration, Configuration, Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on UNIX (SUN Solaris, Red Hat Linux)Systems.
* Worked with Veritas Netbackup, TSM, Tivoli, Nagios
* Familiar with various database technologies, use, implementation, support and big data concepts and tools
* Hands-on experience on databases like Apache, SQL, Cassandra, Redis
* Virtualization proficient - LDOM, zones and VMware
* Worked for implementing security standards according to SOX, PCI, SAS70, etc
* Experienced in analyzing and correcting the kernel performance issues using various utilities like Topas, vmstat, mpstat, sar, etc
* Proficient with configuring and maintaining NFS, DNS, NIS/NIS+, DHCP, SMTP, and Networking with TCP/IP.
* Experienced in creating CRON jobs to automate various System Administration tasks using the crontab utility.
* SCM, Environment Management and Build/Release Engineering for automating, building, releasing and configuring changes from one environment to other environment.
* Having good Experience in Configuration Management tools like Ansible for transferring and running the modules with the help of SSH based systems.
* Installed and configured an automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | Linux (Red Hat 4.x, 5.x, 6.x, 7.x), Solaris 9, 10, 11, UNIX, MS WINDOWS, AIX, Ubuntu. |
| **Languages** | C, C++, Java |
| **Scripting Languages** | SHELL, PERL, RUBY, PYTHON |
| **Databases** | My SQL, MS Access, redis, Oracle 9i/10g/11g, Cassandra, DB2, RAC |
| **Application Servers** | WEBLOGIC, WEBSPHERE, APACHE TOMCAT, JBOSS |
| **Tools** | ANT, MAVEN, HUDSON/JENKINS, CHEFF, PUPPET, BUILD FORGE, CRUISE CONTROL, BAMBOO, NEXUS, DOCKER |
| **Cloud** | AWS EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, Cloud Formation AWS Config, S3, Cloud Trail, IAM. VMware. |

**BLUE CROSS BLUE SHIELDMISep 2015 to Present**

**Role: Sr. Linux Engineer with DevOps**

* Building new servers and production support for Red Hat Enterprise Linux and Solaris servers
* Patch management using yum repositories on satellite sever, puppet and chef
* Installing, and configuring default and third-party packages on RHEL Linux and Solaris 10,11 servers Using, yum, and rpm utilities.
* Setup, configure and troubleshooting TCP/IP, DHCP, DNS, NFS, SSH, CIFS and SAMBA on Multiplatform (Solaris 10 and RHEL/centos)
* Performs Monitoring and Log Management on Unix Solaris 10,11 and Red Hat Enterprise Linux, Centos servers; including Processes, crash dumps and, swap management, with password recovery and performance tuning.
* Monitoring Linux/centos servers using command line tools and with nagios software. Administer, Configure and Troubleshoot VERITAS Volume Manager, File Systems and VERITAS Cluster Server.
* Worked on databases like Cassandra, Redis, NoSql.
* Used diverse set of data stores such as Firebase, PostgreSQL, and Redis to accomplish a range of features.
* Created and configured volumes on Solaris 10,11 systems with volume managers such as SVM, ZFS, VERITAS volume manager including LAN-wide FreeNAS X86.
* Configured and managed storage volumes such as LVM and VERITAS on Red Hat Linux/centos systems.
* Experience on working with Ansible
* Installed and configured ISCSI Utility on Red Hat Enterprise Linux/Centos 6.4 server for Network Attached Storage.
* Setup a domain and Active directory on Windows 2008 server. Installed and configure samba server On Solaris 10 and Centos 6.4 server and mapping to windows 2008 server.
* Integrated Windows Active Directory to automate the Windows Update process (WSUS) via Group Policy.
* Configure apache web server on Solaris 10: install and configure samba server for quick publishing using third-party web page maker.
* Install and configured LAMP on RHEL/Centos servers.
* Experienced on configuring and installing VMware (Virtualization).
* Have average experience with chef configuration manager on RHEL/centos servers.
* Worked on Installation/Configuration/Administrated VMware ESXi 5.1/5.5 & 6.0 and migrated existing servers into VMware Infrastructure
* Installed, Deployed Red Hat Enterprise Linux 6.x/7.x, CentOS and installation of packages and patches forRed Hat Linux Servers.
* Created the file systems using Red Hat volume manager and performing the health check on regular basis for all Linux servers.
* Created Docker images using spotify Maven Plugin, for deployment of microservices.
* Configured and monitored distributed and multi-platform servers using Nagios.
* Understanding of secure-cloud configuration, (CloudTrail, AWS Config), cloud-security technologies (VPC, Security Groups, etc.) and cloud-permission systems (IAM).
* Experience with threat modeling, especially for web application and web APIs.
* Implementing a Continuous Delivery framework using Jenkins, Chef, Maven, Nexus & puppet in Linux environment.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Configuring the Docker containers and creating Docker files for different environments.
* AWS Cloud management and Chef Automation.
* Configured Elastic Load Balancers (ELB) with EC2 Autoscalling groups
* Created monitors, alarms and notifications for EC2 hosts using CloudWatch
* Migrated applications to the AWS cloud
* Azure Automation (cloud and on-premises) solution development for Microsoft POC engagements
* Performed Mechanization Puppet and Chef.
* Scripting in multiple languages on UNIX, LINUX and Windows - Batch, Shell and Python script etc.
* Porting and debugging kernel device drivers
* Develop software on BMC (Board Management Controller) for UCS X86 Blade/Rack servers.
* Embedded Linux Development (ARMv7 and ARMv5)

**Scottrade St. Louis, MOSep 2013–Aug 2015**

**Role: Linux Systems Engineer**

* Installation and configuration of Red Hat Enterprise Linux server 3.0/4.0/5.0 and Sun Solaris 9/10.
* Automation of jobs using Perl and Shell scripting. Automated patching efforts with custom scripts.
* 24/7 support for on-call on RHEL and Solaris environments.
* Configuration and administration of DNS, LDAP, NFS, NIS, NIS+ on RedHat Linux severs.
* Worked with variety of volume managers such as ZFS, LVM, ZFS, Veritas Volume Manager ,etc for filesystem management
* Worked on VMware ESX clusters to build RHEL 4, 5 containers
* Created and worked with Solaris Zones and LDOMs
* Build server deployment on **AWS Cloud (EC2)** servers with help of DevOps tools like **Puppet**.
* Responsible for distributed applications across hybrid **AWS** and physical data centers.
* Configure and maintain stress server in different geographical location and provide setup in every release to perform stress testing.
* Expert in security remediations for Unix servers - turning off services, patching, changes in configuration
* Installed and configured monitoring tools BMC Petrol and nagios for monitoring the network bandwidth and the hard drives status.
* Automated server building using Puppet, Chef, Kickstart and Jumpstart.
* Automated post server build QA process by writing shell scripts
* Production support and troubleshooting for dev, UAT and Prod servers and participation in on-call duties
* Planning, documenting and supporting high availability, data replication, business persistence, fail-over, fail-back using Redhat Cluster Server in Linux environment.
* Troubleshooting production servers with IPMI tool to connect over SOL.
* Configured system imaging tools Clonezilla and System Imager for data center migration.
* Configured yum repository server for installing packages from a centralized server.
* Configured Oracle RAC multimode servers
* mes, extended logical volumes for file system growth using Logical Volume Manager (LVM) commands.
* Designed and programmed C/C++ applications both in Windows and Linux/Unix environment.
* Creating Resource pools and processor sets for zones.
* Installation and configuration of Solaris Zones and LDOMs.
* Coordinating with Tivoli team for setting automated alerts which include OS related alerts and Application alerts.
* Administration and Troubleshooting Solaris servers running business critical application &Websphere 5.1/6.1 applications.
* Management of user accounts and groups according to the security needs.
* Upgrading Solaris kernel and applying necessary patches.
* Performing online addition of LUNS to the servers for provisioning disk space, and resizing file systems.
* Upgrading service controller firmware on T2000/T5220 servers.
* Installing BMC package for data collection, Tivoli package for monitoring, ESM package for monitoring configuration files and troubleshooting.
* Involved in data center migration, SAN switch and SAN storage migration.
* Monitoring system resources, disk usage, scheduling backups and restore.
* Performed root cause analysis of technical issues.
* Configuring and troubleshooting NFS, FTP and SSH for users.

**Fontbonne University St. Louis, MONov 2010 to Aug 2013**

**Role: Unix Systems Admin**

* **Tier 1-3** support for Production environment
* **Data center migration** and consolidation activites
* Solid understanding of **Linux shell and Perl scripting, UNIX, Windows, build and release engineering principles**
* Posting the build on time & following it up the testing team on posted builds until the specified release goes LIVE
* **VERITAS** Volume Manager **4.x/5.x** and **Solstice Disk suite (SVM) RAID configuration**, troubleshooting, maintenance, disk management & space allocation etc.
* Migrated **Sun** Server (Around 1000) and **HP** Servers (Around 300) Lift and Shift from Old Data Center to New Data Center on a Weekly Basis.
* Installation Configuration troubleshooting & maintenance of VERITAS cluster.
* **REDHAT Enterprise Linux 3, 4** Installation on various servers using Kick start and configuration & support for various applications run on Linux environment.
* Performed Mechanization **Puppet and Chef.**
* Exclusively done **Oracle Migration** from 4 Node Cluster to 4 Cluster and also 6 Node to 2 Node.
* Performed **SRT** testing before bring the Cluster into the Production.
* MigratedVERITAS Disk Groups using Deport and Import Techniques.
* Day to day duties for **UNIX/Linux** server Maintenance and Support to developer's team for their issues with application, tuning, troubleshooting, software running on UNIX/Linux Servers.
* Disaster Recovery operation setup & checkup at contracting facility
* Performed e in installing, configuring and trouble-Shooting web servers like IBM **HTTP Web Server**, **Apache Web Server**,**WebSphere Application Servers, and Samba Server** on Linux (Redhat& CentOS)**.**
* Created and ran stress scripts for BMC development team to validate and resolve issues.   
  Created automation to test features from management software, middleware layer, Embedded Linux, and Host.
* Managed the software integration of all Embedded Linux projects.
* Automation scripts for weekly and monthly backups in **Perl and shell**
* UNIX Server monitoring for maximum availability using BMC patrol and other monitoring tools and taking steps to keep servers up and running under 24x7 environment for maximum uptime.
* 24x7 support for the UNIX servers. Rotating on call pager responsibilities for Production environment.

**Patni Computers, IndiaJul 2009 – Oct2010**

**Role: Unix Systems Administrator**

* Provide 24x7 System Administration support for Red Hat Linux 3.x, 4.xservers and resolved trouble tickets on shift rotation basis.
* Installation, maintenance and regular upgrades of Red Hat Linux Servers using kickstart based network installation
* Provide support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and KVM.
* Managing Compaq and Linux workstations and servers.
* Installation of patches and other software packages
* Disk and File system management through Solstice Disk Suite on Solaris and other logical volume manager for other flavor of UNIX.
* Monitoring system performance, tune-up kernel parameter, adding /removing /administering hosts, users, disks on DNS / NIS domain,
* Configuration of Hardware and Software RAID on Digital & Sun Servers
* Installation of Oracle Patches and Troubleshooting, Creating and modifying application related objects, Creating Profiles, Users, Roles and maintaining system security.
* Administrative tasks such as System Startup/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Technologies used include: GNU Tool Chain, C/C++, Boost C++ lib, STL C++, Bash Script, Eclipse, StarUML, Linux, Set Top Box Streaming Media H264, MPEG, Ultrasound, DriectFB SDK (provided graphics acceleration, input device handling and abstraction player), libJPEG, LZW algorithm for image compressing/decompressing, Linux Device Driver for NIC, LUA script, GTK UI, QT framework, video processing at both Kernel and User space. TCP/IP, UPD, RTP and multi thread programming with socket, inter-process communication. White Box Testing with cppUnit Test, code coverage analysis and cppcheck. RS232 protocol, UART.
* Installation and configuration of Oracle 7.x/8.x.
* Implementing NFS, DNS and NIS under SUN.
* Performing administration of the Domain Name Server and configuration of the Database Files.
* Writing Bash shell scripts for getting information about various Linux servers
* Installation and Configuration Sendmail Utility on Sun UNIX Servers.
* Administering NFS Mounts.
* Troubleshooting Backup and Restore problems Creation of LVMs on SAN using Linux utilities
* Monitoring overall system performance, performed user management, system updates and disk & storage management
* Performing OS upgrades and Patch loading as and when required.
* Backing up and restoring files across the network
* Writing Technical documentation for various projects and worked with Technical writer
* Deploying the EAR and WAR archives into **WebLogic** and **Apache** Servers.
* Configuring and Maintaining**Apache** web servers for Release Management Team’s internal use.
* Turnover documentation monitors status of actual production turnover.