**Purna T**

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**SUMMARY:**

* Working as a **LinuxSystem Engineer** from past **8**+ Years in resolving various issues occurred in the production, development and testing environments following industry standard ITIL Practices.
* Expertise in Installing and configuring and Administrating **Red Hat Enterprise Linux(RHEL) 4.x, 5.x, 6.x, 7.x Oracle Enterprise Linux (OEL) 5.x, 6.x, 7.x SUSE Enterprise Linux Server 10, 11**, **SOLARIS 9, 10 and UBUNTU 10, 12, & 14 LTS, IBM-AIX 5.x , 6.x, HPUX 11v1,v2 .**
* Worked on Server End to End Life cycle like **Server Builds**, Provisioning ,**Break fix**, Deployments, Hardening and Production
* Performed **RHEL** and **OEL 4.x, 5.x and 6.x** installations and build using **Kick start and PXE**.
* Performed **OS Upgrades, OS Patching** using**Red Hat Satellite server and Kernel tunings.**
* Configured Logical volume management **LVM, OS native and third party Multi-pathing, NIC Bonding.**
* Maintained **logical volumes** and File systems **ext2, ext3, ext4 and xfs.**
* Expertise on implementing storage technologies on OS like **ISCSI, DAS, NAS, NFS, SAMBA, CIFS**.
* Expertise on configuring **YUM repositories** and patching using **Red hat Package manager (RPM), YUM, YAST, APT and** Open source applications from the source.
* Administrated **FTP, SFTP, HTTP, Telnet, SSH,DNS (bind), DHCP, Squid-Proxy, NIS and LDAP on Linux** environments.
* Performed **Performance tuning** on LINUX OS and System Hardware.
* Performed the **OS and Storage migrations** without downtime.
* **Virtualization** experienceon **VMware, Hyper-V and Red hat KVM**.
* Configured and installed Linux servers on **VMware workstations 8.0/9.0/12.1 and VMware ESX 5.0 server** taken **snapshots** and reverted as required.
* Experience in administrating High Performance Computing (**HPC**) Clusters, **REDHAT Cluster Suit and Pacemaker Cluster 1.0**.
* Experience on **volume manager (VxVM4.x, 5.x) and VERITAS Cluster suite (VCS 4.x, 5.x).**
* Installed **OS watcher 7.3** for server usage logs and **Logwatch 7.3** to mail and report server status logs on **Oracle Linux 5.10, 6.3, 6.5** servers.
* Experience on Web servers like **Apache Tomcat 8.0 and JBOSS.**
* Performed disk and Hardware replacements on HP and Dell servers.
* Hands on installation and configuration of Configuration management tool**Puppet 3.1 and Ansible.**
* Involved in system administration, System planning, co-ordination with group level and user level management.
* Involved in **server migration activities,** configured **CRON auto scheduled jobs**.
* Used **HPHPSA** tool for **server automation software** while implementations on bulk systems.
* Configured **HP ILO** and **Dell DRAC** for remote server administration.
* Created multiple application Instances in minutes and delivered to Production environment.
* Creation of**Load Balancer** which serves traffic to Application server.
* Worked on**Bashshell scripting** in various environments and knowledge in **Perl and Python**.

**KEY TECHNICAL SKILLS:**

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| --- | --- |
| **Operating systems** | Red Hat Enterprise Linux 4.x,5.x, 6.x& 7.x, SUSE Linux 10&11, Ubuntu 11.x, 12.x, 13.x 14x 15x ,16 ,HP-UX 11,IBM-AIX 5.x,Solaris 9,10 |
| **System Administration** | REDHAT/ORACLE/SUSE/UBUNTU/SOLARIS,HPC Clusters, CentOS Rocks Cluster/OSCAR Cluster, Server Installations and administration like QMail, Squid-Proxy, DHCP, DNS, FTP, SFTP, Telnet, SSH, NIS & LDAP |
| **Virtualization/Hypervisor** | VMware, Linux Virtualization / ESXi |
| **Cluster** | VCS ,Redhat,Pacemaker,CRM |
| **Multipathing Devices** | EMC Power path |
| **Configuration Management** | Chef,Puppet 3.1 and Ansible |
| **Databases** | Oracle,My SQL |
| **Scripting** | Bash Shell Scripting,Perl,Python,C,SQL |
| **Integration** | Active Directory, LDAP, HMC, IVM , DRAC, HP ILO |
| **Storage Array/NAS** | IBM SVC, V7000, EMC Clarion, Netapp filers |
| **Hardware** | IBM Power series P4, P5, p6, p7, p8 ( p6 520, p6 550, p6 570, P710, P740, P780, P795), IBM Blades PS701, PS702, HP Blade server C3000, C7000, IBM X Series, HP ProLiant Servers, Dell Edge servers |

**PROFESSIONAL EXPERIENCE:**

**CMC**

**Sr Linux Administrator**

**Dallas, Texas April 2015- Present**

* Work on tickets and resolve the issues.
* Escalate the issues to appropriate teams as and when required following ITIL process.
* Supporting 1000+ business servers.
* Daily attend the Huddles meeting and discuss the problems with team members.
* Complete tasks with schedule time.

**Role&Responsibilities:**

* Upgrading of **RHEL 5 to RHEL 6, O/S Upgrades**, Re staging, Expansion of File systems.
* Patch Upgrades, Installations, Configurations, Storage Migrations.
* Administration of **Veritas Volume Manager and Veritas Cluster** issues
* Adding / removing new **LUN**s and creating the new file systems or increasing the existing file systems using these **LUN**s in **Solaris and Linux**
* Patching of 1000’s of servers in Bulk via Self Service **Patching tool**
* Analyzing the root cause for servers crash ,Performance Monitoring &Tuning of servers
* Upgrading the **Firmware**’s to the Latest Versions ,Arranging Downtime with Server Owners
* Attending weekly call with Lob, Business stake Holders for smoother Operations
* Performing the Decommissioning tasks and capturing the evidences and upload to team Share point record center
* Installation of **ASA agents** ensuring agent running status 24/7
* Excellent ability to handle significant workload with experience in managing multiple projects
* Volume resize, adding disks to aggregates and **LUN** resize.
* Configuring network interfaces, interface groups or **virtual interfaces (vif), VLANs**.
* Configuring and Managing the **CIFS protocols**, and sharing volumes /**qtree’**s to client.
* Configuring and monitoring **Disk mirroring**, **striping** using **LVM**.
* Monitoring & troubleshooting the server performance related issues.
* Stopping, starting or restarting the **Apache** web services as required.
* Configured and installed Linux servers on **VMware workstations 8.0/9.0/12.1 and VMware ESX 4.0 server** taken **snapshots** and reverted as required
* Managing all reboots & disk and Hardware part replacement activities by creating the Data center Escort tickets and complete the activities on Window times.

**Bank of America**

**System Administrator**

**Dallas, Texas Nov 2014-Mar 2015**

* 24X7 support to ensure service level agreements are met.
* Work on tickets and resolve the issues.
* Escalate the issues to appropriate teams as and when required following ITIL process.
* Supporting 1000+ servers.
* Daily attend the Huddles meeting and discuss the problems with team members.
* Complete tasks with schedule time.
* Sending weekly and monthly reports etc

**Role&Responsibilities:**

* Installing, Managing & troubleshooting all the issues on **50,000**+ critical Trading production, development and **QA** servers.
* Hands-on experience in handling all kinds of hardware issues on **Sun, HP, IBM and Dell**.
* Interacting directly with Clients for getting work window for maintenance works and clarifying their doubts if they raise any as part of seeking window.
* Expertise on installation of various applications, packages and patches on Linux servers
* Verify the Load Balance of **My Sql** servers using **Ha proxy**
* Trouble Shooting of **NFS,VAS , &LDAP** User Authentications
* Replacement of Hardware (Motherboard, Memory, Media-Drives**, NIC Cards, PSUs, Mellon ax cards, Fusion cards and HBA**etc) by coordinating with onsite team/vendor.
* Working with various software and hardware vendors to fix various issues and regularly following up with them for **RCA** and updating the same to clients.
* Pushing the configurations and setting up the huge jobs via **Blade Logic**
* Designed **Puppet** Modules to manage configurations and automate installation process.
* Experience in managing virtual instances and disks using **Puppet.**
* Job Scheduling and Automating process using **CRON & AT**.
* **NFS configuration**& administration on NFSv4.
* Installation of patches and packages with **RPM and YUM**.
* Create **Bash Shell scripting** for monitoring the servers load averages performance.
* Installing & upgrading of various packages of **Linux, Solaris, VxVM and NetBackup, Legato, DNT and Autosys** packages.
* Extending the File systems using **LVM and VxVM.**
* Administrated the **VCS 5.x** and **Red hat Cluster Suite.**
* Creating password less **SSH**(familiar with **Open SSH** and **Commercial SSH**) for application teams and fixing if any issues
* Closely coordinated with **SAN** team for storage, fabric issues.
* Upgrading **Emulex** cards, firmware for **HBA** to the current revision levels.
* Actively participating in a high uptime server reboots project.
* Currently working on a automation project which keeps the server In Maintenance mode before it goes for reboot
* Worked with DBA's for Oracle RAC clusters, restoration, log generation on servers and security patching and kernel upgrades on OEL servers.
* Turned the kernel parameters for better performance in Database and application servers.
* Decommissioning servers according to Bank standards.
* Excellent ability to handle significant workload with experience in managing multiple projects

**IBM (Walmart)**

**System Administrator**

**Bentonville,ARNov 2012 to Oct 2014**

* 24X7 Onsite support to ensure service level agreements are met.
* User administration like adding new users, setting user profile, password reset, deleting users.
* Software installation as and when required.
* Checking Backup status and send reports to manager.
* Checking running jobs and queue’s and if any fails manually run the scripts and send report to manager.
* Checking CPU and Disk usage.
* Checking Nodes status through Ganglia Monitoring tool.
* Generating monthly Cluster usage report by users and send the same to client.
* Any changes scheduled then doing those changes and raise the changes.

**Role&Responsibilities:**

* Managing the Wal-Mart Infrastructure for High Availability for their Business continuity
* Trouble shooting the **CRM, STONITH** and **Cluster** issues in Environment.
* Supporting more than **10000** Wal-Mart stores for Linux support across the world.
* Creation of **Nas Q tree**, Expansion of **Qtree** tasks
* **RHEL 6, OS** upgrades ,Patching, File system Expansions,
* Handling the **Xen Hypervisor,DRBD** Storage issues
  + Maintaining the Wal-Mart Smart system and Pharmacy Business on Linux systems in terms of Load issues, servers not accessible, File system issues, Storage and Informix DB
* Taking Escalations from L2 team and fixing them
* Installation of **Stonith** and **RDX** set up for backups
* Edited **puppet yaml** file with necessary credentials
* Setup puppet client/node and ensure that puppet clients could communicate with puppet master
* Implement variable interpolation when creating puppet modules
* Configuring **Xen** Resources ,clearing failed counts by using CRM
* Patch Updates ,**Sles** Upgrades, Installations of **Stonith**
* Fixing the **Nagios** Alerts In Walmart Infrastructure, Redefining **Nagios** as per need.
* House Keeping of **Files systems** ,Extend of **File systems** as per the request
* Troubleshooting the Wal-Mart’s smart slow issues, Pharmacy systems

**SBC Telecom,**

**St Louis, MO**

**Linux System AdministratorJuly 2011-Sep 2012**

**Role&Responsibilities:**

* Deploying Rhel 5 & 6 Servers
* Disk Managing through **Raid & LVM**.
* **Break fix &Build** the Server for AT&T (Singapore) Client.
* Managing &supporting the Production servers through Remote operation.
* Installation of tools like RSA soft token, **Veritas** ,**NetBackup** client other ATT project related tools
* Remote Installation physical server via **DELL -DRACK , HP-ILO** and virtual servers via **VMware ESX 3.5,4.0 (RAID, LVM)**
* Physical volumes and logical volumes & volume groups extending file systems on **LVM** mount unmount of file systems.
* Installation/Configuration/Troubleshooting of **VMWare ESX Server**.
* Experience in **VMWare VMotion**, Resource allocation, Resource sharing, HA Configuration.
* Designing **VMWare** Environment & Exposure on SAN Storage
* Creating a **Vxfs**file system, Configuration of Linux servers by installing latest patch clusters and different tools as per the standards of AT&T and client
* Managing the clusters in **VCS**
* Helped customer build secure private cloud using VMware VCloud Director
* Provide support to the database or application users before the Server goes live
* Expertise on installation of various applications, packages and patches on Linux servers.
* Configuration on various parameter for the server as required by client.
* **Nic**- Bonding, installation of **SFTP,NTP, TCP** wrappers
* Users, files and permissions, **DNS, SSH, RSA** etc.,
* Perform software installation, upgrades/patches, troubleshooting, and maintenance on UNIX servers using **Blade logic**
* Adding all servers in **Blade logic** and Maintaining Blade logic which runs on BMC software
* System monitoring and health check (like CPU, memory, swap utilizations)
* Changing the kernel parameters in various Unix operating systems
* Creating **Password Less Environment** in HPC servers.
* Installing and Configuring **Ganglia monitoring tool** on Master and 128 compute nodes.
* Installing and Configuring **MPI Tool** in Master and Compute nodes.
* Installing and **Configuring Applications** as required by Client.
* Add, delete and **update user account** information, password resets on LDAP server etc.
* Security Management and file/directory restrictions.
* Created the **RAID 0** for Scratch partitions and **RAID 5** for the home partitions at storage level.
* Monitoring Backup’s whether performed or not for scheduled time.
* Scheduling the jobs and analyzing jobs status.
* Generating monthly Cluster usage report used by users through **PBS scheduler**.
* Package management using **RPM, YUM and YAST.**
* Check system log for warning, failed and error messages for hardware and network failures.
* **Created Bash shell scripts** to monitor the hole cluster performance, check for the free nodes
* Installation of SSL certificate on PBS Analytics based on **JBOSS** web server.
* Maintain uptime on **PBS** Analytics **JBOSS** based web server and **Ganglia** Monitoring tool reporting on **Apache** managing services like stopping or restarting services.
* Monitoring and troubleshooting **Pacemaker HA cluster on SUSE Linux**.
* Installing and Configuring of File Servers **NFS**.
* Administrating and Perform disk replacements on the EMC Storage and part replacements.
* Involved in Data center rack setup SGI servers hardware installations.

**Mavin Infotech**

**Hyderabad, India**

**System Administrator Aug 2008- June 2011**

* User administration like adding new users, password reset, deleting users.
* Scheduling/controlling of jobs using Cron.
* Software installation as and when required.
* Checking performance tools reports and if any fails manually run the scripts and send report to manager.
* Daily attend the Huddles meeting and discuss the problems with team members.
* Complete tasks with schedule time

**Role&Responsibilities:**

* Providing Application support for various projects.
* Monitoring Application & Linux **SAMBA, FTP, NFS, APACHE** Services and predicate in quick recovery actions
* Supporting there hosting and data center operations 24/7
* As a System administrator, Day to day administration on Red hat Linux which includes **installation, upgrades** and installing packages & patches, Controlling the System Logging services, and examining **system Log Files** of all system events.
* Creation, modification and deletion of the user accounts and assigning permissions to them, Disk quota, support to the users.
* Configuring **new disks**, creating **file systems and mounting**, file system maintenance and repair, process management, setting up **crontab, at, and batch jobs**, password management, and related UNIX administration work.
* Configuration of network services like **SFTP, NFS, SAMBA, DHCP, SSH & DNS**, etc.,
* Packages and Patches Management
* Delegating calls to team engineers and taking feedback of the call status while troubleshooting issues like Router installations, Servers (**Rhel5 & Win2k & 03**), like Raid, LVM Installation & failure, **SCSI hard disk** failure and Power failure etc.
* Moving the volumes between the **Disk Groups**.
* Creation and removal of Volume and mirrors
* Extensive support towards Linux desktop troubleshooting.
* Handled Configuration & Troubleshooting **of LaserJet & network printer**.
* Successfully resolved IT related issues, maintained network connectivity, and troubleshooting desktops & server hardware.
* Deftly handling the task of **User administration** including addition, changing and deletion of **User Accounts and addition**, changing and deletion of groups and managing of user passwords.

**EDUCATION**

* Bachelor’s in Electronics and Communications,JNTU,2008