**Vishnu vardhan V**

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**Linux System Administrator / DevOps Engineer/cloud Engineer**

**Professional Summary:**

* **With 7 years of experience as a Linux System Administrator (RHEL/CENTOS 5/6/7, Ubuntu),Windows Server** andhands-on experience **Build/Release Engineering, Cloud architecture, Configuration Management and DevOps Engineering** in **CD and CI** Environment
* Experience in working on cloud **AWS** cloud **EC2, S3, EBS, Load Balancer, Auto Scaling** with AWS command line interface and use **EBS** in storing persistent data to mitigate the failure.
* Managed **Ubuntu, Linux and Windows** virtual servers on **AWS EC2** using Open-Source Chef Server. Configured **Red Hat** Cluster Nodes for any legacy applications and verified the daily health check on the Cluster Nodes.
* Ensure data integrity and data security on **AWS** technology. Understand and monitor metrics on **AWS**.
* Handled windows and Linux virtual server on **AWS EC2** using **Chef** Server.
* **Implemented and deployed leading ERP healthcare software Medgate (Saas) Software-as-a-Service**
* Worked with **Chef** Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote Recipes, Cookbooks and uploaded them to **Chef**-server
* Managed On-site OS/Applications/ Services/Packages using **Chef** as well as **AWS for EC2/S3/Route53 & ELB** with **Chef** Cookbooks.
* Replaced existing manual deployment and management processes with Opscode **Chef** recipes. Automating server configuration/management with **Chef**
* Implemented Cloud Infrastructure as a Service environment using open source technology **OpenStack** to enable portability of cloud services across hybrid cloud environments
* I have been with the Cloud/AWS since it first came out, and now raising two cloud kids, **PaaS** and Continuous Delivery.
* Designed and deployed Linux configuration management solution across multiple labs with **Saltstack**
* Hands on experience with the **AWS** CLIand SDKs/API tools like **AWS** API for **Puppet**.
* Installed/Configured/Managed **Puppet Master/Agent** and Wrote custom Modules and Manifests, downloaded pre-written modules from **puppet-forge.**
* Upgradation Migration of **Puppet** Community and Enterprise with **Apache and Phusion Passenger.**
* Experienced in branching, tagging and maintaining the version across the environments using SCM tools like **GIT, Subversion (SVN),** CVS, Perforce, IBM clear case and TFS on Linux and windows platforms.
* Improved continuous integration workflow, project testing, and deployments with **Jenkins**. Implemented code coverage and unit test plug-ins with **Maven** in **Jenkins**.
* Experience in Microsoft Windows **Azure** Cloud Service
* Solid foundation on **openstack** Infrastructure as a service (IaaS) and cloud computing concepts
* Experience with container based deployments using **Docker**, working with **Docker** images, **Docker** hub and **Docker** registries.
* Installed and configured **Anthill Pro** for Automating Deployments and providing a complete automation solution.
* Managed CI and CD using **Anthil Pro, UrbanCode Deploy** integrating with **TFS, MS Build, Git, SVN,** and **Chef.**
* Experience providing training to development teams on how to track, plan and analyze using **JIRA.**
* Experience configuring/deploying: DNS (bind/named), NFS, NIS, ssh/sshd, apache, jira, SMTP, sendmail, confluence, bamboo
* Good Knowledge of Kanban, Scrum.
* Monitor, plan and coordinate the distribution of client/server software and patching using MS System Center Configuration Manager (**SCCM**)
* experience installing and managing Big Data Technologies like **Hadoop**, Splunk
* **Comfortable with Linux system admin, configuration management (e.g. Puppet,saltstack, Ansible), programming for automation and some DBA operations.**
* Performed automated installations of Operating System using **kickstart** for Red Hat Enterprise Linux 5/6 and Jumpstart for Solaris 9/10 Linux & VMWARE Templates.
* Expert with Installation of Linux and Windows OS such as **RHEL 5.x/6.x/7, CentOS, SUSE Linux, Ubuntu, Windows Server 2003/2008-R2/2012-R2.**
* Designed, managed, implemented/ supported: Backup/Recovery/Archive, Security Startup/Shutdown ,Mass Storage **(SAN/NAS),** OS Installations/Patches, Hardware/Software installation , Batch scheduling, Data center Migration, Application and Server performance.
* Working Knowledge on networking **(TCP/IP, Ethernet), NIS, DNS, NFS, DHCP, SMTP and RAID**
* Installed/Configured/Maintained/Administrated the network servers **DNS, NFS** and application servers **Apache and Samba server**.
* Managed UNIX, LINUX and windows using Microsoft SCCM.
* Experience installing and managing Big Data Technologies like **Hadoop, Splunk.**
* Expert in Using **Bash, Perl, and Python, shell scripting** for monitoring and to automate the build and deployment process.
* Involved in back up, firewall rules, **LVM** configuration, monitoring servers and on call support
* Expertise in Volume management, Disk Management, software **RAID** solutions using **VERITAS** Volume manager 3.5/4.1.
* Knowledge on User management with **LDAP** and setting up **Kerberos** authentication for cluster and creation of volumes for users and allocating quotas; established **NFS** gateways on data nodes/NFS mount on edge nodes
* Installation, Configuration and Management of **RDBMS** and No Sql tools such as **SQL Server 2008/2012/2014, DB2, PostgreSQL, MySQL**.
* Understanding of working in a team combined with excellent interpersonal skills.

**Education Details**

* **Bachelors in Computer Science & Engineering from Sathyabama University, INDIA**

**Technical Skills:**

* **DevOps Tools:** Chef, Puppet, Ansible, Jenkins, Vagrant, Docker, Maven,Tfs
* **Cloud Platforms:** AWS, Microsoft Azure and Rackspace, Openstack.
* **Operating Systems:** Sun Solaris 11/10, Red Hat Linux 5.x/6.x/7 SUSE 10/11/12, Ubuntu, OEL, CentOS, Windows Server 2003/2008/2012.
* **Hardware :** Sun Ultra Enterprise Servers (E3500, E4500, E450, E420R, E250) Sun Fire(6800/4800/3800/v880/v480/v210/v440/280R/15K/25K), Sun Workstations (Ultra 5, 10,20,Blade 100,150,2000),SunstorEDGEA1000 and D1000, HP 9000 series , IBM RS/6000, x Series, p Series.
* Dell R710, R720, R510 and R910, IBM Blade Servers.
* **Network Protocols:** SMTP, SNMP, ICMP, TCP/IP, FTP, TELNET, UDP, and RIP, iSCSI, Fibre Channel.
* **Software and Tools**: VERITAS Volume Manager 3.x/4.x,WinSCP, FTP, SSL, VERITAS Cluster Services, Cisco CNR, Send mail.
* **Backup Management**: VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, tar, dd, cpio.
* **Monitoring :** Nagios , Splunk , ZABBIX
* **Bug Tracking Tools:** JIRA, Crucible, Fisheyer, Remedy
* **Web/Application Servers**: Tomcat, Apache, Webspere, and JBoss.
* **Database**: Oracle, DB2, MySql, PostgreSQL,Cassandra, MongoDB 7 SQL Server 2008/2012/2014
* **Languages**: Shell Scripting, Perl, Python, Ruby.

**Professional Experience:**

**BNSF RAILWAYS, DALLAS TX May’ 14 – Till Date**

**Sr. Linux Administrator / DevOps Engineer**

**Responsibilities:**

* Created **Chef** cookbooks for Application deployments and configurations using **Chef** Server Maintaining automated environment using **Chef recipes and cookbooks** test-kitchen and chef spec
* Managed **Ubuntu, Linux and Windows virtual servers** on **AWS EC2, S3, ELB, ROUTE 53** with Opscode **Chef Cookbooks/Recipes.**
* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services**. Leveraged **AWS cloud** services such as **EC2**; auto-scaling; and **VPC** (Virtual Private Cloud) to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts, and are able to quickly evolve during development iterations.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, **SVN/GIT** with Devel/Test/Prod Branching Model for weekly releases
* Maintain server environment on AWS and Rackspace
* Automation of deployment of **OpenStack** services using **shell** scripts
* Deployed **Docker** Engines in Virtualized Platforms for containerization of multiple apps.
* Involved in container based deployments using **Docker**, working with **Docker** images, **Docker** hub and **Docker** registries.
* Worked with **Docker** setup on **Linux** and configured **Jenkins** to run under **Docker** host
* Created and deployed development and management tools used for traditional **Windows** Server Containers and that they integrate with **Docker** for cross-platform deployment using **Hyper-V Containers**
* Using **Microsoft’s Hyper-V Containers** applied at the container app level for security-conscious organizations
* Configuration of various plugins for **Jenkins** for automation of the workflow and to optimize and smooth running of build jobs
* Used the continuous integration tool **Anthill Pro** to automate the daily processes
* Deployed web.config files using Octopus tool to applications hosted on **Azure**.
* Used OData, **Azure**, SQL server and service oriented architecture.
* Monitoring JIRA disk space usage and Analyzing and reporting upon **JIRA** usage and activity.
* Worked with **JIRA** for creating Projects, assigning permissions to users and groups for the projects & Created Mail handlers and notification Schemes for **JIRA**
* Managed and administered our SVN repositories and **Confluence** installations
* Experience on complete software development life cycle (SDLC) with software development models like JIRA, Agile Scrum Model, Prototype model & RUP, Waterfall model
* Involved in building applications on Windows Servers using **PowerShell**
* Created Bash scripts that ran on **Saltstack** minions pulling out relevant system information
* Created continuous integration system using **Ant** in faster and flawless deployments.
* working with **ANT Scripts, MAVEN** for deployment and running test suites for various firm wide applications
* Managed VMs through **vCenter Server 5.5** Using Templates to Provision **VMs, vMotion, vDS** .
* Experience in **Shell and Python** scripting to automate system administration jobs. Also implemented and enhanced existing scripts developed in **Shell and Ruby** Managed server on **VMware vSphere, vcenter.**
* Installed and monitored Virtual environments with **ESX 4.x/5.x** servers and **vSphere.**.
* Implemented Rollout and reporting of Anti-Virus and security updates using **Microsoft SCCM 2012.**
* Performed tight integration with windows , **Microsoft** **Active directory** and Group Policy to keep track of roll out updates using **Microsoft SCCM.**
* I was involved in enterpise **paas** for self-service portal for managing computing infrastructure from centralized IT operations and the platforms that are installed on top of the hardware
* Responsible for the infrastructure and operations of a software as a service (SaaS) environment for clients' consumers
* Excellent hands on experience in **OpenStack** environment implementation.
* Implemented Cloud Infrastructure as a Service environment using open source technology **OpenStack** to enable portability of cloud services across hybrid cloud environments
* Worked on critical business initiatives (**Big Data, Cloud, Hadoop**)
* Installed, Deployed **Red Hat Enterprise Linux 6.x/7.x, CentOS** and installation of packages and patches for Red Hat Linux Servers.
* Scanning the newly assigned **LUNs** to the serves and assigning them to volume group and increasing the file system using Red Hat volume manager
* Mounting & un-mounting the net app storage **LUNs** to the Red Hat Linux servers and troubleshooting the issues encountered
* Managing the file systems using **Red Hat** volume manager and performing the health check on regular basis for all Linux servers.
* Configured **Red Hat** Cluster Nodes for any legacy applications and verified the daily health check on the Cluster Nodes
* Delivering the packaged applications for Desktops and Servers through **SCCM** 2012
* Provided guidance on creating custom reports utilizing the **sccm** DB using custom SQL queries and SQL Reporting Services.
* Adding users according to **ticket** requirement and mounting the file system, **cron-jobs** adding etc in **Redhat Linux**
* Install, configure and support Microsoft technology solutions on **windows 2008/2012** platform hosting web and database applications, while maintaining security patches, antivirus updates, backups, monitoring and performing routine server maintenance
* Experience with **JavaEE**, including **JSPs**, **Servlets**, Web Services (**SOAP**and **REST**),and Tomcat

**WIZARDS, SEATTLE, WA Jul’ 13 – May’ 14**

**Linux Administrator / DevOps Engineer**

**Responsibilities:**

* Managing **Amazon Web Services (AWS**) infrastructure with automation and configuration management tools such as **Ansible, Puppet** or custom-built .designing cloud-hosted solutions, specific AWS product suite experience.
* Skilled in using all Amazon Web Services including **EC2, EBS, IAM, S3, ELB**.
* Worked on **migrating** Physical **VM’S to AWS.**
* Experience in **AWS**, which included managing application in the cloud and creating instances.
* Deployed **Puppet, Puppet Dashboard**, and **Puppet** for configuration management to existing infrastructure.
* Build automatic provisioning system with **kick start and Puppet**.
* Experience with Configuration Management Tools (**Ansible, PUPPET).**
* Automated build process with Continuous Integration Tool **Jenkins/Hudson** using **Bash/Perl** and used **Puppet** for Monitoring system and automation.
* Performing SSH based tasks such as disabling servers in load Balancers with open source DLL using Powershell
* Managed automation scripting in **Python** (core) using **Puppet**to deploy and manage Java applications across Linux servers.
* Automated **Amazon** API gateway through **python scripts**
* Involved in migration from **SVN** to **GIT** repos and worked with Linux sys admins for the same
* Created Branches, Labels and performed Merges in Stash and **GIT.**
* Responsible for design and maintenance of the **Subversion/GIT** Repositories, views, and the access control strategies.
* Created **Docker** images and deployed **Docker** containers for Tomcat Servers
* Setup monitoring in **Nagios** using chef roles, nodes, data bags in JSON.
* Installed and configured monitoring tools **Nagios** for monitoring the network bandwidth , hard drives status, health check scripts
* Installed and monitored **VMware** Virtual environments with **ESX4 ESX 3.x, ESX i servers** & Virtual Center 2.X
* Installation, Configuration and administration of **DNS, LDAP, NFS, NIS, NIS+ and Sendmail on Redhat Linux/Debian Servers.**
* Performed automated installations of Operating System using **kickstart** for **Red Hat Enterprise** **Linux 5/6**
* Performed the operating system resources like CPU, Memory, Disk and swap using native commands like **prstat, vmstat, sar, iostat, swap etc**
* User management with **LDAP** and setting up **Kerberos** authentication for cluster and creation of volumes
* Installing packages with **yum** and **rpm.**
* Managed user/group and sudo access on the Linux operating system. Setup static IP address for server when there is a new server build.
* Installing and managing Java versions and deploying Java applications on Tomcat servers
* Performed evaluation for established **agile** environment focusing on performance enhancement and direct coaching of scrum masters and teams.
* Worked on configuration and Volume/File system management using **Logical Volume Manager (LVM)**
* Installing and configuring of security networks like certificates using **SSL and Apache Web Server**.
* Developed and supported the **Red Hat Enterprise Linux** based infrastructure in the cloud environment.
* Installed Fuse to mount the keys on every Debian Servers for password-less authentication.
* Installation and configuration of **PostgreSQL ,My SQL,database** on **RedHat/Debian** Servers
* Managed **RedHat Linux** user accounts, groups, directories and file permissions.
* Call support provided 24/7 on Linux Production Servers. Responsible for maintaining security on **Redhat** Linux.

**HMS (Health Management Systems), Omaha, NE Jan’ 12 – Jun’ 13**

**Linux System Administrator**

**Responsibilities:**

* Involved in virtualization using **VMWARE ESX 3.5, 4.0** for **Redhat Linux**
* Using **virsh** to manage and create virtual servers, deploy raw files, cloning and managing connections.
* Installed different virtualization products such as **vmware server 2.0, ESX 3.5/4.0** on a physical server which in turn will host different virtual servers running different **SUSE** versions, Linux, Solaris etc.
* Configure and maintain **VMware** with updates and devices management.
* Installation and configuration operating system **Red Hat** **Enterprise Linux (RHEL5.3 and RHEL 5.4)** in development and test environments almost six levels on HP physical servers and Virtual Machines
* Created users, managed user permissions, maintain User & File System quota on  **Red Hat Enterprise Linux.**
* Managed the User and Application Account creations and deletions for the SUN Servers. This includes setting up **SUDO** access for **DBA** and application account access.
* Designed, managed, implemented/Backup/Recovery/Security Startup/Shutdown , Mass Storage (**SAN/NAS**), OS Installations/Patches , Hardware/Software installation , Batch scheduling, Data center Migration, Application and Server performance
* Import and Deport disks into a disk group depending on the requirement using the vx assist utility on the **Veritas Volume Manager**.
* Worked with VERITAS Foundation Suite 5 and performed tasks like creating disk groups, volumes, initializing disks, replacing failed disks etc.
* Experience in working with the **LAN/WAN**, firewalls and routing for Internet and Intranet connectivity using different protocols like **TCP/IP, DHCP , HTTP/s, SMTP & SSH**
* Involved in firewall rules, configure iptables and iptables init script, start and stop init script for **Apache** and other application server
* Worked with **BASH** shell scripts to automate cron jobs and system maintenance. Scheduled cron jobs for job automation
* Involved in **backup, firewall rules, LVM** configuration, monitoring servers and on call support
* Disk and File system management through **Logical Volume Manager (LVM)** on HP-UX, LINUX and Solaris Volume Manager (SVM) on Solaris
* Involved in **shell scripting** for system/application in automating server task, installing and monitoring applications and data feeding file transfer and log files
* Developed deployment workflows in ActiveBatch utilizing Java, bash, Python, and PowerShell.
* Installing and configuring operating system Red hat Enterprise Linux in Production, QA and test environments on standalone **IBM** servers
* Configured **Kickstart** for **RHEL 5** to perform image installation through network
* Worked with Red hat Linux tools like **RPM** to install packages and patches for **Red hat Linux** Server and managed virtualized OS
* Worked on network connectivity, **SAN** storage, creating **LVM** and taking **TSM**

backup

* Installed/Configured/Maintained/Administrated the network servers **DNS, NFS** and application servers **Apache and Samba** server
* Monitored the performance of the system using **top, prstat, vmstat, netstat, sar, ps, iostat**  to check the CPU utilization, bottlenecks of **I/O** devices, memory usage and network traffic
* Used ping, **netstat, ifconfig** for troubleshoot network connectivity and trace route commands. To login to the remote system used **sudo, putty, Telnet**.
* Transferred files across the systems on the network using **ftp** and **scp** commands
* Perform maintenance tasks in **Oracle** such as archiving, shrinking, migrating databases and log rotation and archiving.
* Worked with DBA team in installing and configuring **Oracle 10 g and 11g, Sybase, Db2 client v 8.1 and v9.0**

**Ally Financial, Fort Washington, PA Nov’ 10 – Dec’ 11**

**Linux System Administrator**

**Responsibilities:**

* Worked as a Systems Administrator **on Red Hat3/4, CentOS 3/4and Ubuntu (6.06, 7.04) servers**
* Monitoring, analyzing, and responding to security events utilizing security event management and reporting tools.
* Led technical site relocation project involving up to 40 servers successfully completing project in a single weekend.
* Diagnosed and resolved complex **load balancing** issue by phone for global site amazing and satisfying client.
* Converted Linux systems from local password authentication to **LDAP** and **NFS** homes significantly increasing administrative efficiency.
* Configuring Servers using **SSH** and password-less **authentication and** Management of Firewall, iptables.
* Performance Monitoring & Tuning - **iostat , vmstat & netstat, nfsstat.**
* Expertise in configuring Firewall and security using **SSL, IPchains, IPtables, TCP Wrappers, Tripwire, and port scanners.**
* Involved in creating virtual Experienced in **DNS, NIS, NFS, CIFS, FTP, NIS, Samba Server, LDAP, remote access, security management,**and system troubleshooting skills.
* Educated users on business interruption risk and received their buy in for system standardization and update.
* Created a process for system updates to minimize risk of application failures.
* **TCP/IP** Networking troubleshooting and Linux Network Administration
* Experience in maintaining server virtualization using **VMware, ESXi, Oracle Virtual Manager**
* Implemented and configured brand new **VMware** virtual infrastructure cluster running on servers and an storage array
* Coordinated with application team in installation, configuration and troubleshoot issues with **JBoss** servers.
* Installation, configuration, support and security implementation on **DHCP,NFS,NIS,DNS,HTTPD ,SQUID, Postfix E-mail**
* System monitoring and remote connection management using **telnet and SSH** connections
* setup Storage area Network **(SAN) and NAS** and file system backup and restore
* Involved in **24x7** on-call rotation for support of production systems
* Installation and configuration of database systems e.g. **MySQL, Oracle**

**JNIT TECH PRV LTD, MADHAPUR, India Apr’ 09 – Sep’ 10**

**Jr. System Administrator**

**Responsibilities:**

* Installed and configured **Redhat Linux, Windows Server 2000, 2003 and ESX/ESXi** servers and app software in across the network mostly **Dell, HP and IBM** hardware.
* Implementation of advanced partitioning schemes using Software **RAID and LVM.**
* Performed Servers consolidation and virtualization using **VMware virtual infrastructure, VMware ESX, Virtual Center, VM tools.**
* Worked on Configuration of **IPTABLES, NIS, NFS, SENDMAIL, FTP, SSH, SAMBA and DHCP Server**
* Implemented **sudo** utility throughout the environment for ESB servers and documented the process.
* Worked with **Backup** team to install and configure networker client on the Linux servers.
* Involved in Designing Network and Datacenter for different customers and build the Unix/Linux servers, migrated data one datacenter to new datacenter.
* Creating volume groups, logical volumes, extending **logical volumes** based on the requirements using **Logical Volume Management (LVM)** commands.
* Build the Linux **Firewall** for network and implement to secure the network.
* Worked extensively with **security** engineers to research cyber security issues
* Implemented Web Application Servers like **Oracle, WebLogic** in **Red Hat Linux** environment respectively.
* Wrote **Unix/Perl Shell Scripts** for day-to-day system administration activities and perl
* Installed the latest patches for, Oracle on **Red hat Linux servers**, Configured and administered **Sendmail, Samba, Squid servers** in Linux environment,
* Worked on configuring **SSL** certificates in, **Apache, Apache Tomcat**, thread dumps
* Performance tuning and preventive maintenance, performed daily **backup**.
* Resolving **TCP/IP** network access problems for the clients. Implementing Remote System Monitoring with Sun Microsystems. Develop, Maintain, update various scripts for services (start, stop, restart, recycle, cron jobs) unix based shell
* Monitored trouble ticket queue to attend user and system calls
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment. Provided support by 24x7 shift rotation basis and pager support