**Teja Varma Penmatsch**

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**System Administrator / DevOps Engineer**

**SUMMARY**:

* 7+ Years of experience in Core System Engineer of OS such as (**RHEL/CENTOS 5/6/7, Windows Server 2008R2/2012R2)** with 3 Years focused on Implementing Automation within **DevOps** Culture to **leverage CI/CD** (Continuous/Integration /Deployment/Delivery) Pipeline and utilize Configuration Management Tools.
* 4 years of experience working in the **DevOps** environment with familiarity and hands-on knowledge of various **DevOps** tools such as **Puppet,** **Chef** and **Ansible**.
* Extensive knowledge in administration tasks on **Red Hat** **Linux** and documentation for the projects executed.
* Installed, monitored and supported Web and Application Servers on Linux environments and updated, monitored, deployed and managed systems using **Red Hat Satellite servers**.
* Proficient in configuring Kickstart servers to initiate installation of Redhat Linux on several machines at once.
* Extensively worked With **VMware ESXi** [5.1/5.5/6.0] **vCenter Server**, Host Clustering with HA, DRS, Replication Manager 5.x/6.0, Site Recovery Manager, **vMotion**, Physical to Virtual Migration and Managing SAN Data stores with, iSCSI, NFS & FC.
* Experience in Storage, Disk Management, Logical Volume Management (LVM) and logical partitioning and maintaining file systems and creating NFS.
* Automating continuous integration and continuous deployment pipelines using DevOps tools such as **Chef**, **Jenkins**, **GitHub**, and**Cloud Foundry** and automate administration tasks through scripting.
* Experienced with Chef Enterprise in writing cookbooks and uploaded them to Chef server, managed on-site OS/Applications/Services/Packages and hosted them On-Premise, installed Workstation and bootstrapped Nodes
* Experience with large environment with more than 7000 servers on different Data centers, vCenters and **AWS** running different operating systems which are managed by **Puppet**.
* Managed various Amazon Web Services like **EC2, S3 bucket, RDS, EBS, ELB, Auto-Scaling, AMI, IAM** through AWS Console and **API Integration with Puppet Code**.
* Written manifests/Recipes and Ruby scripts to customize the Puppet/Chef as per our environment.
* Excellent knowledge configuring Amazon Web Server (**AWS**) and migrating application to AWS and managing applications on cloud.
* Created monitors, alarms and notifications for **EC2** hosts using **Cloud watch**, **Nagios, and ELK stack** to monitor services other than AWS and real-time application logs streaming.
* Monitored the servers and checked the network performance using **Nagios**, **Splunk**, **iCinga** for Resource Monitoring/**Network Monitoring**/**Log Trace** Monitoring.
* Experience in monitoring servers using tools like **Dynatrace**, **AppDynamics** and **Splunk**.
* Experience in working on source control tools like **Tortoise SVN, CVS, IBM Clear Case, Perforce, and GIT**, Strong knowledge on source controller concepts like **Branches, Merges and Tags**.
* Extensively worked on **Jenkins/Hudson by installing, configuring and** maintaining for the purpose of **continuous integration (CI)** and for **End to End automation** for all build and deployments.
* Designed Puppet Modules to manage configurations and automate installation process and Experience automating centralized configuration-using Puppet.
* Architect and deploy Symantec public/private cloud platforms (IaaS, PaaS & SaaS) across Amazon Web Services.
* Involved in setting up **JIRA** as defect tracking system and configured **various workflows**, customizations and plugins for the **JIRA** bug/issue tracker.
* Installation, Configuration and Management of **RDBMS and NoSql** tools such as **SQL Server 2008/2012/2014, MySQL, DB2, PostgreSQL, MongoDB & Cassandra.**
* Worked on group/user administration, startup and shutdown scripts, crontabs, file system maintenance and backup scripting and automation.
* Expertise in writing Shell scripts using **ksh**, **Bash**, and **Perl** for process automation of databases, applications, backup and scheduling.
* Constructed a RESTful API to manage infrastructure services using Python and Flask.
* Expert in setting up SSH, SCP, SFTP connectivity between Linux hosts.
* Expertise in implementation and maintenance of **FTP**, **DNS**, **LDAP**, **Tomcat** & **Apache** web servers on Linux servers and installation and configuration of **Apache**, **BEA WebLogic**, **LDAP**, and mail servers.
* Experienced in **DNS, NFS, CIFS, FTP, NIS, Samba Server, Tomcat & Apache servers, LDAP,** remote access, security management, and system troubleshooting skills.
* Provided production support in an on-call rotation in a 24x7 environment.

**EDUCATION:**

**Bachelors of Engineering in Computer Science from Malla Reddy Engineering College, Hyderabad, INDIA.**

TECHNICAL SKILLS:

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| --- | --- |
| Operating Systems | RHEL/CentOS 5.x/6.x/7, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2012 |
| Build/Automation Tools | Puppet, Chef, Ant, Maven, Jenkins, Hudson & Bamboo |
| Languages | Shell, Bash, Perl, Ruby and Python scripting |
| Databases | MySQL, MongoDB, Cassandra, PostgreSQL, SQL Server |
| Web/App Server | Apache, IIS, HIS, Tomcat, WebSphere Application Server, JBoss |
| Bug Tracking Tools | JIRA, Fisheye, Crucible, Rally, Remedy and IBM Clear Quest, Bugzilla, HP Quality Center. |
| Version Control Tools | Subversion, GIT, Tortoise SVN, Visual SVN |
| Web Technologies/Programing Languages | Servlets, JDBC, JSP, XML, HTML, .Net, Java Script, Java/J2EE, C, C++, Ruby, Perl scripting, Python, Shell scripting. |

**PROFESSIONAL EXPERIENCE:**

**Wellsfargo, NC Feb’ 17 – Till Date**

DevOps & Build and Release Engineer

* Developed and Implemented Software Release Management strategies for various applications according to the **Agile Process**.
* Dealt with different environments like **Development, QA, UAT and Production** for various releases and designed instance strategies.
* Extensively experienced in using Build and Automation tools like **Ant, Maven, Gradle** and working knowledge of other build tools like **MS Build & Build Forge** andManaged **Maven project dependencies** by creating **parent-child relationships** between Projects.
* Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements.
* Jenkins is used as a continuous integration tool for automation of daily process and involved in the development of **Bash shell scripts** to automate repetitive tasks
* Researched and implemented code coverage and unit test plug-ins with **Maven/Jenkins** and Installed **Groovy plugin** to Jenkins and worked on **groovy scripts** to add support for groovy projects.
* Setup and configured Cruise Control for **Continuous Integration** and **Release Management** as well as maintained Repository management in Maven to share **snapshots and releases** of internal projects using **Nexus**.
* Built and deployed **EAR** and **WAR** files with custom configuration settings using Maven Tool Kit and further deployed the archives into **Apache Tomcat Web Server** and **WebSphere Application Servers.**
* Administered and deployed **HTTP web server** and **Apache Tomcat Servers** in deploying web applications on a clustered environment on **Tomcat** and **JBOSS** to maintain the clusters and load balance through **Shell** scripts.
* Leveraged AWS cloud services such as **EC2, auto-scaling and VPC to build secure, highly scalable**, and flexible systems that handled expected and unexpected load bursts
* Automated the Migration of the Jenkins server to **AWS** and moving of the jobs from the **SCM Git** and Analyze and resolve conflicts related to merging of source code for **GIT** and further configuring with **SonarQube** to test the quality and analyze the bug fixes.
* Initiated responsibility for administering the **SVN** and **GIT** servers which included install, upgrade, backup, adding users, creating repository/branches, merging, Writing hooks scripts, performance tuning, troubleshooting issues and maintenance.
* Expertise in AWS Cloud Administration which includes services like: **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups**.
* Provided POC's to provision the **AWS infrastructure** using **Ansible** **playbooks** which includes checking the health status, monitoring and gathering facts about the **EC2** instances**, elastic load balancers, auto scaling groups** and other AWS resources.
* Strong experience with **Docker containers** and experience working on **Docker** to build images at root of the repository and clustering the containers with **Docker Swarm** and **Kubernetes.**
* Experience in creating and maintaining **users, groups, elastic load balancers,** and **auto scaling** to create a cost-effective infrastructure with fault tolerance and elasticity.
* Worked on **.NET Web. Application Build / Deployment** (**MS Visual Studio 2012, TFS 2010/12**) software.
* Responsible for maintaining **MS Build and PowerShell** files for build and automation of **.Net and CSharp** applications.
* Worked closely with Project Managers to understand a code/configuration release scope and how to confirm a release was successful.
* Worked on various **Docker/Kubernetes** components like **Docker Engine, Hub, Machine**, **Compose** and **Docker Registry**.
* Configured and setup **Ansible Tower** with customized playbooks to automate and enhance the configuration management for deploying faster containers, **EC2 instances**, and manage Jenkins deployments.
* Maintained **JIRA** for tracking and updating project defects and tasks and used **Rally** tool for tracking user stories and backlogs.
* Strong ability to troubleshoot any issues generated while building, deploying in the production environment in both **Linux** and **Windows** environments.
* Installed and Configured **- NFS, NIS, DNS, Mail Server, Apache Web Server** on various flavors of **Red Hat Linux and Solaris**.
* Excellent communication, interpersonal, analytical and quick problem-solving skills.

**Chimpchange, CA Dec’ 15 – Jan’ 17**

Linux Admin/ DevOps Engineer

* Administrated **DHCP, DNS**, and **NFS** services in Linux and experience in **creating** and **managing user accounts, security, rights, disk space and process monitoring in Ubuntu**
* Developed and set up custom reporting tools, automated health monitoring and alerting for builds and environments.
* Review entire environment and execute initiatives to reduce failures, and improve overall performance, and expand monitoring capabilities.
* Experience **Writing/maintaining scripts**, **maintaining Linux** **servers/firewalls** and responsible for doing **software upgrades on Juniper routers and switches**.
* Used **Docker**for local application development and test and worked on **Docker container snapshots**, attaching to a running container, removing images, managing directories structures and managing containers.
* **Implemented a Continuous Delivery pipeline with Docker, Jenkins, Bitbucket and AWS AMI's** and build a new **Docker** container from Jenkins.
* Experience working on several **Docker components like Docker Engine, Hub, Machine, Compose** and **Docker Registry** as well as created multiple Containers with Specific Run Times and Proxying using **NGINX** for Virtual Hosting of multiple containers in a Single Docker Host.
* Converted our staging and Production environment from a handful **AMI's** to a single bare metal host running Docker.
* Support software development infrastructure by providing a standard **development environment**, **configuration management, backup**, and **recovery** and support our developers with advanced Linux administration and helped them optimize hardware and software development to migrate into embedded systems.
* Configured and set up **AppDynamics** in different environments for engineer groups and provided performance management support.
* Analyzed, evaluated and documented application performance, by implementing **AppDynamics** into production, which directly led to efficiency gains and process improvements.
* Setting up Auto scaling of the instance group using AWS command line tools and AWS cloud environment for Dev/QA environments.
* Used scripting languages like **Python, Ruby, Perl, Bash** and **CF Engine and Web Service like AWS**.
* Dealt on **cloud AWS** such as **EC2, S3, RDS, Load Balancer, Auto Scaling** with AWS command line interface and **AWS python SDK**.
* Implemented and designed**AWS Instances by Ansible** roles to ensure deployment of web applications. Worked with multiple development teams to troubleshoot and resolve issues.
* Automated deployment using configuration management tools like **Chef** and **Ansible** to provision amazon **AWS Instances to enable continuous Deployments.**
* Architected and designed rapid deployment method using **Ansible** to auto deploy servers as needed by writing and modifying playbooks.
* Experience in using **Tomcat** and **Apache** web servers for deployment and for hosting tools.
* Used **Dynatrace** to monitor server metrics and Performed in-depth analysis to isolate points of failure in the application.
* Installed and Configured **Atlassian** Tools like **JIRA, Confluence, BitBucket, FishEye** and Integrated these tools for a streamlined **Agile Workflow** and ProjectCollaboration**.**

**T. Rowe Price, Baltimore, MD Apr’ 14 – Nov’ 15**

Linux Admin/ Cloud Engineer / DevOps Engineer

* Managed Linux and Windows virtual servers on **AWS EC2** using Open-Source Chef Server, configured **Redhat** Cluster Nodes for any legacy applications and verified the daily health check on the Cluster Nodes.
* Designed and implemented**Chef,** including creating **cookbooks** and automating them in the **CI and CD system.**
* Used **Jenkins** for **Chef CI, Thor** for versioning, **Berkshelf** for **dependency management,** and **Test-Kitchen** to further test and deploy the application.
* Used Chef to manage VM **Configuration** within **AWS** & primarily used Ruby to write **GIT** applications and chef Recipes.
* Migrated VMWARE VMs to AWS and Managed Services like **EC2, S3 Bucket, Route53, ELB, EBS with Opscode Chef Cookbooks/Recipes.**
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.
* Helped the team to Plan/Design/Implement Hybrid Cloud Between On-premise **VMWARE** and **Public AWS** Cloud.
* Implementing a Continuous Delivery framework using **Chef** in Linux environment. Created virtual environments via vagrant with chef client provision.
* Used **GIT** version control to manage the source code and integrating **GIT with Jenkins** to support build automation.
* Extensively used **DynaTrace** to diagnose and troubleshoot **web/app server performance issues**
* Working with the hardware vendors and application team for the faulty replacement and planning the downtimes accordingly.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations and plugins for the **JIRA bug/issue tracker**.
* Work with development teams and business areas to plan future capacity requirements and hold regular meetings to review usage as well as create, revise, and report any new measurements required to manage mainframe or distributed environments.
* Created and maintained the **Shell/Perl** deployment scripts for **Web Logic & web application servers**.
* Proficient in installation, configuration and maintenance of applications like **Apache, LDAP, and PHP**.
* Used **Jenkins**, Build forge for **Continuous Integration and deployment** into **Tomcat Application Server**.
* Insure impact of software releases to system performance and resource utilization of distributed and mainframe platforms are acceptable during load testing.
* Scanning the newly assigned **LUNs to the servers** and assigning them to volume group and increasing the file system using **Red Hat** volume manager.
* Developed unit and functional tests in **Python and Java**.
* Expertise in deployment of **Routers, Switches, Hubs, Firewalls, IDS, load balancers, VPN Concentrators.**

**SABRE, Dallas, TX Oct’ 13 – Apr’ 14**

Linux Admin / Cloud Admin / DevOps Engineer

* Configured **Red Hat Kickstart** for installing multiple production servers.
* Worked on installation, configuration and maintenance **Debian/Redhat, CentOS and Suse Servers** at multiple Data Centers.
* Installed and configured **DCHP** server to give IP leases to production servers.
* Deploy and monitor scalable infrastructure on Amazon web services **(AWS) & configuration management using puppet.**
* Allow users to run existing online applications and create their own cloud applications on cloud hardware of their own choice by using the services of**(Paas, Saas, Iaas)**
* **Installed/Configured/Managed Puppet Master/Agent** and wrote custom **modules and Manifests**, **downloaded pre-**written modules from **puppet-forge** and upgraded/migrated from Puppet Community to Enterprise.
* Managed 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.
* Experience with Configuration Management Tools **(PUPPET, Ansible).**
* Installed and configured monitoring tools **Nagios** for monitoring the network bandwidth and the hard drives status.
* Worked on Bug fixes for supporting Virtualization and High availability support for storage device from networking point of view to address configuration, virtual IP (VIP), source address selection, protocol control block, DNS, DDNS, interface link events.
* Developed automation scripting in**Python (core) using Puppet to deploy and manage Java applications across Linux servers.**
* Installed, Configured, and administered **DNS, LDAP, NFS, NIS, NIS+ and Send mail on Red Hat Linux/Debian Servers.**
* Worked on Version controlling systems like **GIT** and integration tools such as **Jenkins** and **TeamCity.**
* Logged events from forced crash dumps and troubleshoot server issues.
* Configured **yum repository** server for installing packages from a centralized server.
* Installed, configured and administered in **Apache Tomcat** in different environments like Development, QA, UAT and Production on RedHat Enterprise Linux.
* Management of RedHat Linux user accounts, groups, directories and file permissions.
* Applied **the Clustering Topology** that meets High Availability and Failover requirement for performance and functionality.
* Performed monitoring using **Sar, Iostat, VMstat and MPstaton servers** and also logged to monitoring tool for graphical view.
* Installation and configuration **of PostgresSQL database on Red Hat/Debian Servers**.
* Performed Disk management with the help of **LVM (Logical Volume Manager).**
* Configuration and Administration of **Apache Web Server and SSL.**
* Scheduled reports for daily, weekly, monthly reports for executives, Business analyst and customer representatives for various categories and regions based on business needs using **SQL Server Reporting services (SSRS).**
* Created and maintained network users, user environment, directories, and security.
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and **KVM**.
* Provided 24/7 on call support on Linux Production Servers. Responsible for maintaining security on Red Hat Linux.

**BBVA Compass Bank, Birmingham AL May’ 11 – Sept’ 2013**

Systems Engineer

* Installed, configured, and administered **Red Hat Enterprise Linux 5.x, 6.x.**
* Installed, configured, and maintained **SAMBA, NFS, HTTP, NGINX, and FTP** in Linuxfor accessing and sharing files from the Windows environment.
* Experience in installing multiple Linux servers using **Kickstart** installation and custom build scripts for **Red Hat Enterprise Linux and CentOS**.
* Experience managing **HP Blade center C7000** hardware management using **ILO Console.**
* Created **server profile** and managed Network and virtual SAN configuration using **Virtual Connect** in blade center C7000.
* Installed/Configured **Red Hat Linux Cluster 5.x** version & configured the cluster resources
* Installed and configured **VMware ESXi 3.x, 4.x** servers and applied security patches to **ESXi** servers.
* Managed **ESXi** servers using the **Vsphere** client and **Vcenter** for managing the multiple ESXi servers
* Creating templates to deploy multiple virtual machines and clone using **VMware virtual client** and migrating machines between hosts with **HA and DRS.**
* Worked on **SAN** storage on **ESXi** servers and assigned the **LUNs** to the virtual machines running on the ESXi hosts.
* Created fence devices in the cluster, created failover domains within the cluster and **Flipover/Failover** tests between the **nodes** in the clusters.
* Created **filesystems** using **Red Hat volume manager** and performed health checks on a regular basis for all the Linux servers and added storage to the **cluster disks** and managed the filesystem size in **RHEL.**
* Set up and scanned the newly assigned **LUNs** to the servers and assigned them to the respective **volume group** and increased the **filesystem** using Red Hat volume manager.
* Created **filesystem** and **RAW** logical volumes for the **Oracle RAC** based on the requirement.
* Created and modified **swap** files and added swap space and configured **RAID levels** using volume manager.
* Mounted and unmounted netapp storage **LUNs** to the Red Hat Linux servers and troubleshooted any issues that came up.
* Created Link aggregation **(LACP)** with **VLAN** tunneling using **virtual connect (VC)** and shared uplink set **(SUS)** using **LACP** and **VLAN** tagging.
* Performance Tuning and Management for **Linux/AIX** servers and worked with the application/database team to resolve issues.
* Migrated **Red Hat** Linux servers from 4.x version and worked with the application team to resolve the post migration issues.
* Experience with **V**up 5.0, Sybase 11.5.1, Perl Scripting, LDAP server, Weblogic, Apache Tomcat, EMC Storage SAN.
* Installed and updated **Kernel** in Linux servers and created initrd image to boot from the upgraded kernel.
* Worked with **backup** team for the **Legato** backup & restore, **Legato** client Instillation in the **Red Hat Linux** server.

**JNIT PVT LTD, Madhapur, AP, INDIA Aug’ 2010 – May’ 2011**

**Linux Systems Administrator**

**Responsibilities**

* Yum configuration & package installation through **YUM**.
* Configuring and deploying of **iSCSI server** and **Client.IP bonding for load balancing and fail over, Firewall, SELINUX.**
* Installation of **Red Hat Enterprise Linux.** Handling troubleshooting issues **like boating, RPM packages**, User management and backup.
* Hosting and securing web pages using **Apache (httpd) web server and ssl.**
* Configuration and troubleshooting for **Red Hat Linux**, user **Administration & Quota Management**
* Creating and deploying **LVM**, resizing the logical volume and volume group.
* Configuration and administration of **LDAP, NFS, FTP, SAMBA** and **POSTFIX Servers** in Red Hat Enterprise Linux.
* Performed physical to virtual **(P2V)** and **(V2V)** migrations for approximately 50 physical servers utilizing VMware Converter.
* Create, deploy and manage Linux and windows **VM** using Red Hat Enterprise Virtualization Manager, which includes moving and migrating **VM** from **one cluster to another cluster or within the same cluster**.
* Experience in **Windows 2003 and2008** Active Directory Installation and Configuration.
* Heartbeat clustering for high availability in Apache.
* Performances, CPU and Memory monitoring of Red Hat Enterprise Linux.
* Firmware upgrade, managing the servers, collecting Logs, open KVM console for troubleshooting.
* Installed and configured **ESXi 5.0, 5.1 Servers on Blade servers. Creating Virtual machines. Creation of templates from VMs and Creation of VMs from templates**.
* Configure **vCenter Server 5.0, 5.1** in production environment and created many cluster and enabling HA and DRS for Load balancing and High Availability. Worked on Migration concepts like **Vmotion, SVmotion and cold migration.**