**Abhinay Methuku**

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**References provided on request.**

**Professional Summary:**

* 9+ years of System engineering experience under heterogeneous environment of **Redhat Linux (3, 4, 5 and 6) HP-UX (11.x)** and **AIX (6.1, 5.x)**.
* Strong Experience in working as **DevOps** engineer for release automation to achieve continuous integration and continuous delivery **(CI and CD)**.
* Strong experience in **DevOps**, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. It includes Amazon Web Services (AWS), Ant, Maven, **Jenkins**, Chef, SVN, GitHub, Nexus CVS, Tomcat, Linux etc.
* Experience with Scripting in multiple languages on UNIX, LINUX and Windows -Ruby, Python, PowerShell and Bash scripts.
* Worked with **Chef** Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes
* Involved in designing and deploying multitude applications utilizing almost all of the **AWS** stack (Including E**C2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and auto-scaling in **AWS**Cloudformation.
* Migrated the current Linux environment to **AWS**/RHEL Linux environment and used auto scaling feature and Involved in Remediation and patching of Unix/Linux servers.
* Build servers using **AWS**, Importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Deployed applications on **AWS** by using Elastic Bean Stalk
* Creating and maintaining user accounts, profiles, security, rights, disk space and process monitoring.
* Installed and maintained the machines with the updated Patches and necessary client software packages by using **pkg\*, RPM\*, YUM\*, sw\*,** etc.
* Working experience in using configuration management and automation tools like **Puppet/Chef/CF** engine and **Cobbler** for automating configurations and maintaining stability across several hundred machines.
* Installing upgrading and configuring SUN Solaris 9, 10 on sun servers using Jumpstart installation
* Managing user accounts, Partitioning, making zones, mounting and maintaining file systems, system security, change management, documents, Performance tuning of Sun Solaris **Red Hat Linux** servers using tools like **vmstat, iostat, sar, top, pmstat, free, prtconf, syststat, iostat, netstat** etc.
* Experience in install and configuring Kick start in **RHEL Linux**.
* Experience in designing, building and implementing a System Imager for Linux.
* Have experience using load balancers HaProxy and integrate with **AWS** and run the process on each server.
* Experience in **JBoss** application server administration on **Red Hat.**
* Experience in installation, configuration and administration of WebLogic and Websphere Servers.
* Snap shots and clones.
* Worked on Service management on Solaris 10 thru SMF (Service Management Facility) **svcs, svcadm, svccfg** etc.
* Administer Solaris 10 container technology, created local and global zones, modified local zone parameters, created file systems and managed resources on local and global zones.
* Hands-on analyzing **Linux, Solaris, AIX** and **HP-UX kernel core** files and crash dumps.
* Experience managing **SAN** storage in **UNIX** environment.

**Technical Skills**

| **Operating Systems** | Red Hat Linux 5.5/6.3/7.1, Windows Server 2000/2003/2008/2012, Ubuntu |
| --- | --- |
| **Languages** | Perl, C, HTML, UNIX shell scripting, Python, PHP, HTML |
| **Database** | SQL Server Management studio 2008, MY SQL |
| **Infrastructure as A service** | **AWS**, OpenStack |
| **Configuration management** | Chef, Ansible, Puppet, Saltstack, Docker |
| **CI, Test & Build Systems** | Maven, Jenkins, Cloudbees Jenkins, Bamboo |
| **Application/Web Servers** | Tomcat , JBoss, Apache, Web logic, Web Sphere |
| **Logging & Monitoring Tools** | Splunk, Nagios, Zabbix |
| **Version Control Softwares** | SVN, Git |

**Professional Experience:**

**AquilentInc, Laurel, MD. Feb 2016-Till Date**

**Role: Devops Engineer/Cloud Admin**

**Responsibilities:**

* Worked on **RHEL 5, 6** and creating **EC2 instances** in **AWS cloud**.
* Setup new environment during migration from V2 to V3 and spun up new instances using **AMI’s**.
* Created **Elastic load balancers (ELB’s)**, and wrote cloud formation scripts for setting up new **EC2** instances using **AMI’s**.
* Managing and creating new IAM users and setting up **MFA**.
* Wrote shell script to automate the shredding process of unattached volumes in **AWS environment** using **AWS CLI**.
* Automated the process of creating snapshots for the IMP and PROD servers across all the Environments.
* Worked on continuous **integration servers Jenkins**, **Cloudbees** and **bamboo.**
* Created and configured new jobs in **Jenkins**, **Cloudbess** to point to new servers during the **V3** migration.
* Installing, configuring and administering **Jenkins** Continuous Integration tool on Linux machines along with adding/updating plugins such as **GIT, Maven, ANT and Chef.**
* Deploying application using Jenkins server and Troubleshoot build and release job failures, work with engineers on resolution.
* Worked on the **GIT** branching for applications by creating Release branches, Development branches thus ensuring the integrity of applications.
* Configuration and Administration of **Apache Web Server** and **SSL** Certificates.
* Centrally managed an automated research oriented Linux environment through automation/configuration tools like ansible and salt master.
* Was instrumental in creating a Disaster Recovery (DR) process and setting up new infrastructure in west region of **Amazon Web Services**.
* Installed, configured and monitored splunk, newrelic for all the servers in the V3 environment.
* Created a Step-Up-Script to update GoldImage Version from 3.01 to 3.09.
* Worked on **SSL** origin and intermediate certificates, and requesting new certificates through symantic and keeping them up to date.
* Was the lead in inventory reduction, decomisssion of V2 Environmnet, Disaster recovery (DR).
* Successfully created a **Sophos 9 UTM server** for mapbox environment, configured and monitored it.
* Administered **Sudo** and Redhat Linux package using **RPM** and **YUM.**
* Systems monitoring and administration of Servers for day-to-day problems, patches, user administration, hardware failure, monitoring log files, backup, doing yum updates, configuration changes and documentation.
* Good in provisioning and deployment tools like **Ansible**.
* Establish configuration management tooling for organization using **SaltStack**.
* Manage configuration of multiple environments using **SaltStack** and **git**.
* Providing 24x7 support for deployments and issues with the tools **(Jira, Confluence, Hiphat, Crowd).**
* Worked on Continuous Integration in the Development Process
* Managed several server logs through log management tools like **rsyslog** for security and troubleshooting purposes.
* Created architecture diagrams for the new V3 environment and updated them in the confluence.
* Worked on **Github**, and integrated it with **Jenkins** to build jobs and do the deployments

**Environment:** Splunk, Nagios, Perl Scripting, Shell Scripting, PHP, GIT, Jenkins, Bamboo, Saltstack, Jira, Web services, Ansible, Open Stack, AWS, VM ware.

**Travel Click, Schaumburg, IL Feb 2014 – Jan 2016**

**Role: Sr.Unix/Linux Administrator/ DevOps Engineer**

**Responsibilities:**

* Worked on **Red hat Linux 3,4, 5 & 6 / Scientific Linux 5 & 6 and Centos 5,6.**
* Systems monitoring and administration of Servers for day-to-day problems, patches, user administration, hardware failure, monitoring log files, backup, software up gradation, configuration changes and documentation.
* Centrally managed an automated research oriented **Linux** environment through **automation/configuration** tools like **Chef/Puppet** and **Cobbler**.
* Managing Linux infrastructure using single, integrated tools for efficiency, speed such as **Puppet/CFengine**.
* Maintained version control setup of configuration files, automount maps, software repos etc. using **subversion (SVN)/Git** repositories.
* Migrating applications from **Web Sphere** to **JBoss**.
* Setup **chef**-client on several nodes, configured workstations to allow users to author, test, and maintain **cookbooks**.
* Worked on **Amazon Web Services - AWS (Cloud Computing), EC2, VPC**.
* Knowledge on **SaaS, PaaS and IaaS** concepts of cloud computing architecture. Implementation of **AWS (IaaS) and Openstack**.
* Installed and administered **Jenkins CI server** for continuous build of **java** projects.

**Environment:** Chef/Puppet/CFengine, IPAM , Jenkins, Cobbler , AWS, JBOSS Application server, Subversion and Git repositories.

**Astellas Pharma, Philadelphia, PA Jan 2012 – Jan 2014**

**Role: Sr.Linux/ AIX System Administrator**

**Responsibilities:**

* Installation and configuration of Operating System such as **Linux, AIX** and **Windows 2K/XP/Vista/7/server 2003**.
* Maintained many cluster nodes using **CRM**.
* Maintained fully automated configurations on development and production environment’s using **Puppet**.
* Automated version control developer codes and deployed through tools like **Chef/puppet**.
* Troubleshooting and Configuration of Lotus Notes **(version 7.2 & 8).**
* Troubleshooting and Configuration of **SSH, FTP, NFS** and **APACHE** Server.
* Creation of a new **GFS2** file system and configuring, resizing and administration of newly created **GFS2** file system in a Cluster environment.
* Majorly worked on Virtualization (Xenvms and VMware) of several hundred of servers.
* Good understanding of the **Linux kernel**, driver development and troubleshooting.
* Installed **KVM hypervisor** in **Redhat/Fedora/CentOS** Linux operating system.
* Automated Cluster Balancing.
* Managing cloud infrastructure using integrated tools for efficiency, scalability such as **RightScale, Puppet** and **IBM** SmartCloud.
* Worked on IO configurations for virtual machines **ESX hosts**, enabling and disabling **VM** Direct path.
* Done Physical to virtual server migrations.
* Managing **IBM Blade Centre**, Backing up Informix Databases and also working with DBA and Networking teams.
* Providing 24x7 supports.

**Environment:** Puppet**,** KVM Hypervisor**,**Chef, Shell Scripting, Powershell, Cforce, Apache, Web Logic, Websphere, Tomcat, Xen& VMware Virtualization, VDI support.

**Century link, Monroe, LA Oct 09 - Dec11**

**Role: Solaris / Linux System Administrator**

**Responsibilities:**

* Installed and Administered Sun Midrange Hardware on **Solaris 9.0, 8.0, 7.0, RedhatLinux, SuSe Linux** and **Fedora Linux.**
* Assisted developers with compile environments and revision control.
* Used Shell scripting to automate the system administration job such as **add users, user deletion, install packages, patches** and **bundles**, and **perform troubleshooting**.
* Supported **development/ production environments, including systems integration of developed software** for production.
* Installation and Troubleshooting of Java and J2EE.
* Supported for **high-traffic web services**, including requirements & capacity analysis, **service configuration**, **monitoring and troubleshooting**, **system backups,** and **change management.**
* Performed server consolidation: **migrate systems** and applications to **Solaris zone environment**.
* Installed Brocade **fiber channel** and **Cisco network switches**, provisions **NetApp storage**, and **deploys RHEL and Ubuntu virtual machines** on **VMware and AIX** on the **PowerVM platform**.
* Administered **Sudo** and Redhat Linux package using **RPM** and **YUM**.
* Installed and configured Samba and tuned the application as per project requirement.
* Installation of **MQ**, **ClearCase** softwares.
* Configured the **RAID 1** and **RAID 5** Storage Systems using Veritas File system and Veritas Volume Manager 5.0.
* Completed NFS migration project of all user accounts from legacy NFS servers to Netapp NAS filers.
* Administered internal Internet services: **DNS, NIS, NFS, Autofs, firewalls, proxies.**
* Backed up software and implemented various backup policies including **daily, weekly and monthly backups.**
* System **monitoring: system** and **network threshold alerts.** Worked with **IP multipathing and Bonding.**
* Monitored using NAGIOS, NAGVIS, NDOUTLS, ZENOSS, CA, Tivoli Tools and MRTG.
* EMC Symmetrix Storage arrays for proxy caching; Netscape / I-Planet / SUN One Directory Server **(LDAP).**

**Environment:** Solaris 8/9/10, Red Hat Linux 4/5/6, VMware ESX4.0Veritas Volume Manager (VxVM), ZFS, VERITAS cluster server and zones, VERITAS net backup, and shell scripting (BASH, KSH), SAN, IPMP, NIC bonding, NFS, NIS, NIS+, DHCP, FTP, LDAP, Apache, Samba.

**Chickasaw Nation Industries, Norman, OK Nov 08 - Sept 09**

**Role: system Administrator**

**Responsibilities:**

* **Jumpstarted** installation of **Solaris 10/9/8**, configuration, **installation of Keon** client and patrol client on **Fujitsu Primepower series**, **Sun E25k, E15k, E10k, E4900 and T2000.**
* **EMC/Hitachi Lun assignment/unassignment** on Solaris and Linux. Mirroring of volume on SRDF disks.
* Installed and configured security tools like **jass**, **ssh tunneling** for **DMZ environment**, and 2 **factor authentication software.**
* Configuration/troubleshooting of **multi-path** on Solaris and bonding on Linux Servers.
* Handled call pager on rotation basis.
* Installed, configured WebLogic**, Apache and WebSphere.**
* Assisted in network design and layout for the **TCP/IP** network.

**Environment:** Range of Sun Server including E10k, E15k, 5500, 6500, T1000, 4900 and others. Solaris 8/9/10, Red Hat Linux 4/5/6, VMware ESX4Fujitsu’s Primer Power Series servers 450,650 and others. HP Proliant DL585 G1, G2.Tivoli Storage Manager, Veritas foundation suite 4.x 5.x, Veritas Cluster Server 4.x 5.x, Automount/NFS.EMC and Hitachi Storage.