**Sapna Arora**

**DevOps Engineer**

Email;mohan@slnsystems.com Ph: 2406548224

**PROFESSIONAL SUMMARY:**

* **10 Years of experience in IT industry as Linux Administrator, DevOps/Agile operations Build/Release Management, Change/Incident Management and Cloud Management.**
* Experience in Installing Firmware Upgrades, **kernel** patches, systems configuration, and performance tuning on Linux systems.
* Responsible for migrating **UNIX** to Linux and AIX to **Linux** **Virtual** **machines**.
* Migrated Linux virtual machines from one vCenter to other for Soft Layer Project.
* Coordinating with different teams and vendor for resolving the issues of client through ticketing tool.
* Built end to end CI/CD Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to Nexus.
* Installing and troubleshooting Ftp, MySQL, VNC, Apache, Tomcat, NTP, and NFS.
* Hands on experience in AWS services like EC2, S3, ELB, RDS, SQS, EBS, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation AWS Config, Autoscaling, Cloud Front, IAM, R53.
* Experience in Linux Administration (Installation, Configuration, Patching, Tuning and Upgrades of Linux (Red Hat and Oracle).
* Proficient with container systems like Docker and container orchestration like EC2 Container Service, **Kubernetes**, worked with **Terraform**.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
* Used the **Ansible** **Galaxy**, a shared repository for the roles to download, share and manage the roles.
* Experience on Virtualization technologies like VMware and VSphere.
* Extensively worked with Version Control Systems **CVS, SVN (Subversion), GIT.**
* Extensively worked with automation tools like Hudson, Jenkins and Build Forge to implement the End-to End Automation.
* Expertise in using builds tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code. Application Deployments
* Experience on **Ansible** and **AnsibleTower** as Configuration management tool, to automate repetitive tasks, quickly deploying important applications and manage changes effectively.
* Expertise in Querying RDBMS such as Oracle, MY SQL and SQL Server by using PL/SQL for data integrity.
* Experience deploying highly scalable and fault-tolerant services within public and private cloud infrastructure (SaaS, IaaS, PaaS, VMware)
* Good Knowledge in bash (shell) and exposure to **Jython**, **Python** scripting.
* Manage overall responsibilities for the implementation and support of over 1000 Windows, Linux, **VMware** and **Solaris**.
* Experience with **Linux/UNIX** environments and scripting for **Build & Release automation**.
* Experience in using **Ansible** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage change.
* Experience in **OpenStack** administration to create New Users, Flavors, Tenants, Roles and Assign Resource Quotas to projects and roles using keystone command line client.
* Administered and Implemented CI tools Hudson and Jenkins for automated builds.
* Configured and Administered **Nexus** Repository Manager.
* Experience writing Shell and Perl scripts to automate the deployments and day to day tasks.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile, SCRUM, Waterfall methodologies**.
* Sound understanding of version control systems like **GitHub** and **SVN** including committing code, feature branches, pull requests.
* Knowledge on the Messaging Queues (JMS, ActiveMQ)
* Experience in Creating Store procedures and functions in SQl server to import data in to Elastic Search and converting relational data in to documents.
* Experience using RPMs to effectively package the applications for product deployments
* Ability to work closely with teams, in order to ensure high quality and timely delivery of builds and releases.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Extensive experience in all phases of Software Development Life Cycle with emphasis in Designing, Developing, Implementation, Deployment and Support of distributed enterprise scalable, secure and transactional J2EE applications.
* Team player with excellent interpersonal skills, self-motivated, dedicated and understanding the demands of 24/7 system maintenance and has good customer support experience.

**SKILLS:**

|  |  |
| --- | --- |
| Server Operating Systems: | Red Hat Enterprise Linux (RHEL) 4.x/5.x/6x/7.x, SLES 9/10/11/12, OEL 6/7, Solaris 9/10/11 CentOS/Ubuntu, Windows Server 2000-2008 R2, 2012, MS-DOS, Shell scripting |
| Virtualization | VMware, Vcloud, Vcenter , VCAC, VSphere |
| E-mail | Lotus Notes, MS Exchange. Sendmail,Outlook,lync |
| Languages: | C, C++, Python, Ruby, Java/J2EE, .NET |
| CI/CD Tools: | JENKINS, HUDSON, Bamboo, Anthill Pro, Nexus, Ansible , CHEF, Puppet |
| Databases: | MySQL, Mongo DB, Cassandra, SQL Server Scripts Shell Script, ANT Script, Batch Script, Perl Script, Power Shell Script. |
| Version Control Tools: | GIT, SVN, Bit bucket |
| Web Technologies: | Servlets, JDBC, JSP, HTML, Java Script, XML. |
| Web/App servers: | Web logic, Web Sphere, Apache Tomcat, IIS, JBOSS. |
| RDBMS: | Oracle, SQL SERVER, MY SQL. |
| Build Tools: | ANT, MAVEN. |

**Client: Comcast, PA Feb 2018 to Present**

**Role: Dev Ops Engineer**

**Responsibilities:**

* Working on System and platform integration in a large enterprise Linux-base environment
* Installed and configured Linux, SuSe & Red hat 5.x, 6.x, 7.x on Dell Power Edge (710,720 and 730), using Kickstart with PXE for LAMP (Linux, Apache, MySQL and Perl/PHP) installations.
* Linux Terminal Server X2Go (Debian) ● App virtualization with Docker ● Linux Server administration and distribution (DPKG) automation using Ubuntu, Debian packaging tools.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation
* Wrote, maintained, reviewed and documented modules, manifests, **Git repositories for Puppet Enterprise on RHEL and Windows platforms.**
* Worked, managed **Ansible Playbooks with Ansible roles**, group variables, inventory files, copy and remove files on remote systems using file module.
* Administered and supported **GitHub Enterprise version control tool.**
* Set-up databases **in AWS using RDS, storage using S3 bucket** and configuring instance backups to S3 bucket.
* Developed bash script for getting information about various Red Hat Linux servers and automated cron jobs
* **Ansible** and Packer to build Jenkins master AMI. This includes **Groovy**to configure pluginsconfiguration files and jobs deployed with DSL plugin, Ruby and Vagrant file to help with **testing of** that AMI and a Python script to help rotate old versions of the AMI.
* Deployed **spring boot** applications using **Docker**.
* Implement best practices and maintain **Source Code repository infrastructure (Using GIT).**
* Production experience in large environments using configuration management tool Puppet supporting with 500+ servers and involved in developing manifests.
* Experience in understanding, helping in the design and configuring of building the Application servers like SAP, ORACLE and Web logic Environments.
* Implemented file sharing on the network by configuring NFS on the system to share essential resources.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management **(Ansible).**
* Resolve system errors and crashes, huge file sizes, file system full errors and Installing Network Printers and rectifying the printer problems over the network. Administration of DevOps tools suite: **Puppet Enterprise, AWS, Teamcity, GitHub, JIRA, Confluence, Rundeck, Puppet, Octopus Deploy, Splunk and ELK stack.**
* Used **Selenium** Grid to run test cases in multiple browsers and Platforms.
* Experience in Configuration and Administration Patch and Packages management.
* Promoted Continuous Integration, Continuous Delivery culture collaborating with Development, DBA, QA, Support and Business Operations.
* Excellent Knowledge in Capacity Planning and Performance tuning.
* Worked with Team leads and Managers to resolve production issues.

**Environment:**  Solaris 8/9/10, Cent OS 5.x/6.x , Red Hat Linux 4/5/6, BMC Tools, NAGIOS, NetBackup, Korn Shell, Java/J2ee, Eclipse, Ansible, AWS (Amazon Web Services), Maven, Terraform Anthill Pro, Docker, Subversion, SVN, GIT, Python, Ruby, Nexus, Sonar, Jenkins , Tomcat, BASH, UNIX,

**Client: State of Maine March 2017 to Jan 2018**

**Role: Build Release Engineer**

**Responsibilities**:

* Administration of **Red Hat Linux servers and support for Servers.**
* Provided 24x7 System Administration support for **Red Hat Linux 5.X, 6. X servers and resolved trouble tickets on shift rotation basis.**
* Installed, configured and maintaining various Linux flavors (SUSE, Redhat, CentOS, Scientfic Linux, Ubuntu etc.) and associated applications
* Involved in user interactions, requirement analysis and design for the interfaces.
* Performed standard administration tasks (packaging, OS installs, patch management)
* Responsible for creating and deploying builds on various Web Logic environments, testing in build environment and release to test team on scheduled time.
* Creating builds using power **shell Scripts, ANT/Maven scripts manually and automated.**
* Troubleshooting deployment and installation issues
* Creating, Extend and Reducing the **LVM.**
* Modeled the structure for multi-tiered applications orchestrate the processes to deploy each tier.
* Handling complete **Build** **and** **Release** process including code, documentation and sup-porting testing team along with the server Administration
* Performance monitoring and Tuning using top, prstat, sar, vmstat, netstat, ps, iostat etc.
* Work with QA to facilitate verification of releases. Running multiple builds at a time.
* Creating SVN repositories and give access rights to the authorized developers.
* Activities include user administration, startup and shutdown scripts, crontabs, file system maintenance, backup scripting and automation using shell scripting (BASH, KSH) for Red Hat Linux servers.
* Developed build and deployment scripts using **ANT and MAVEN as build tools in Jenkins to move** from one environment to other environments.
* Integrated **delivery (CI and CD process) Using Jenkins, Nexus, Yum and puppet**
* Created approximately 500 user accounts in Active Directory and migrated all Windows NT users by User State Migration Tool.
* 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.
* Automation of various administrative tasks on multiple servers using bash script
* Proficient in installation, configuration and maintenance of applications like Apache, JBOSS and Tomcat.
* Monitored and troubleshot different performance related issues using performance monitoring utilities like Iostat, netstat, prstat, top, ping, sar, vmstat, snoop etc
* Wrote shell script to gather systems information, performance etc

**Environment:** Redhat-Linux, Maven/Ant, Jenkins, Puppet, Nexus, SVN repositories, Apache, IIS, JBOSS, Tomcat. NFS, NIS, JDK 5.x/6.x/7.x

**Client: Bristol West Insurance LA, CA Sep 2016 to March 2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Participated in configuring and monitoring distributed and multiple platform servers using Puppet. Used Puppet server and workstation to manage and configure nodes.
* Managed environments DEV, BCP, UAT and PROD for various releases and designed instance strategies
* Designed and Developed Bamboo Build deployments on **Docker** containers.
* Production experience in large environments using configuration management tool Puppet supporting with 500+ servers and involved in developing manifests.
* Implemented continuous integration web hooks and workflows around Jenkins to automate the Dev test deploy workflow around **Puppet codebase**.
* Setup Puppet master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Working on migrating legacy, on premise applications on various Cloud platforms like **OpenStack**, OpenShift, Container orchestration.
* Build servers using AWS, Importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Configured Security group for EC2 Window and Linux instances.
* DevOps solution including the functions of build, deploy, automation test control, generating reports and notification services with an end goal of continuous integration in a data center and AWS
* Experience on the **Logical Volume Manager**, managing physical volumes, volume groups, Logical volumes, performing file system management
* Written make, Maven and Ant build tools for application layer modules.
* Managing day-to-day user administration like adding or deleting users, password aging users/groups, **NFS** using the TCP/IP applications such as Telnet, **FTP**, and R-logins.
* Configuration management with CFEngine. LAMPS setup, most OSS systems, Certificate and Cipher suite management, Linux kernel tweaking and automated deployment systems.
* Automated the Build & Deployment environment end -to-end using Jenkins
* Analyze and resolve conflicts related to merging of source code for SVN and Git.
* Used python as a monitoring tool for collecting the agent logs from the all Linux flavors.
* Implemented python scripts by using stranded libraries for getting the all the agent logs (Inventory, Remote connections, Network usage and performance counters) from Linux.
* Installed and configured Anthill Pro for Automating Deployments and providing a complete automation solution.
* Created and maintained the Shell deployment scripts for TC Server/Tomcat web application servers.
* Worked on variety of Linux Platforms Red Hat Linux, Solaris which includes installation, configuring and maintenance of applications on this environment.
* Patch, Packages Installation, Disk and File system Management
* Involved in Software Configuration Management, Build & Deployment Management.
* Imported and managed multiple corporate applications in Subversion (SVN).
* Installation and configuration of **Apache Web Server** and IBM HTTP Web Servers.
* Worked with the management to develop deployment specifications and configurations.
* Worked with IT and QA teams to deploy and troubleshoot the system applications.
* Involved in 24x7 production-computing environments support. Experience providing on-call and weekend support.
* Configured Firewalls and security using SS1, ipchains, iptables, TCP wrappers, tripware and port scanners.
* Worked on Agile methodology and used **JIRA** for issue tracking
* Involved in Oracle/SQL Upgrade project which includes various UNIX builds of different OS platforms across various data centers.

**Environment**: Jenkins, Maven, Puppet, SQL Azure, Python, Subversion, Docker, Bash, NT Command Shell, Java/J2EE, Git, JIRA, XML, Linux.

**Client: Sofin Technologies, Ahmedabad IN April 2008 to Oct 2015**

**System Engineer**

**Responsibilities:**

* Participated in the release cycle of the product which involves environments like Development, QA, UAT and Production.
* Installed and Configured Confluence as the enterprise wiki to document development and change management procedures.
* Solved complex build/deployment processes throughout all phases of the **SDLC** Ensures that the release has been accepted by all parties.
* Created access permissions for checking and checkout for developers and control the access permission based on the developer's role and responsibility.
* User créations and SUDO permissions were allocated for the users.
* Provided pre commit hooks and post commit hooks for Subversion.
* Developed shell scripts for automation of the build and release process.
* Assist with maintaining current build systems, developed build scripts, and maintained the source control system.
* Managed the source codes repository of multiple development applications using Sub version control tools.
* Created analytical matrices reports for release services based on **JIRA** tickets.
* Implemented builds to automate **JAR, WAR and EAR.**
* Setup and debug hardware related issues for Server builds.
* Perform biweekly build cycle and testing processes on Solaris.
* Responsible for design and maintenance of the Subversion (**SVN**) Repositories.
* Supported servers, which included **NFS, NIS, LDAP, NTP, FTP, DHCP, MTA** and user's setup/troubleshooting
* Administrated **DHCP, DNS** and **Samba** services in Linux.
* **Environment:** Red Hat Enterprise Linux 3.x, SUSE Linux Enterprise 8,Fujitsu Siemens, HCL Infosystems Infiniti Series Xcel, Global line, Pro, Cisco Routers 1800/2800/3600/7200 series, Oracle, MySQL, VMWare ESX, Veritas NetBackup, Logical Volume Manager, Perl, Python, SQL, DHCP, NFS, FTP, TCP/IP

**References:** Available on request.