**Sunil Mallidi**

Sr. DevOps Engineer

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**Summary:**

* Around 8 years of IT Industry experience DevOps Engineer understands the melding of operations and development to quickly deliver code to customers. Had experience with the Cloud and monitoring processes as well as DevOps development in Windows Mac and Linux systems.
* Worked as a System Administrator Manage all computing activities in a modest-sized active and diverse academic department with an international user base.
* Redesigned and redeployed the **Nagios** implementation. **Nodes** automatically added/removed themselves via **Puppet**.
* Implemented **Puppet** modules to automate configuration of a broad range of services.
* Written core modules for **tomcat**, **PostgreSQL**, **Apache** and other services, and also written profile modules for application and infrastructure setup.
* Develop automation code using Opscode **Chef** and **Python** to build **OpenStack** and **AWS** environments autonomously.
* Built and deployed a Chef Server in AWS for **infrastructure** automation.
* Create Chef Cookbooks and Recipes to maintain and automate various parts of infrastructure.
* Experience in working on source control tools like **Tortoise SVN**, **CVS**, **IBM Clear case**, **Perforce** and **GIT**. Primarily used Ruby to write GIT applications
* Worked with **GIT** and **Subversion** to manage source code.
* Worked on **GitHub** as a Web-based Git repository hosting service. It offers all of the distributed revision control and source code management (**SCM**) functionality.
* Rebuilding and modernization of high load classified advert platform on Amazon Web Services (AWS).
* Cloud solution architecture on Amazon Web Services.
* Implemented AWS solutions using **E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling** groups.
* Using **Jenkins** Amazon WebServices(AWS) Code Deploy plugin to deploy to AWS .
* Created **templates** as a cloud formation in AWS.
* Submitted features and fixes upstream to the **OpenStack** Heat (Orchestration) project and downstream to RDO/RHOS. Backported new features to stable releases and packaged Heat for Fedora, CentOS 6/7, RHEL 6/7.
* Written **CfnJSon** templates for application stack creation.
* Research and development on scalable Linux deployments on AWS via CoreOS and **Docker**.
* Built clouds with **OpenStack** and AWS.
* Worked in an agile development team to deliver an end to end continuous integration/continuous delivery product in an open source environment using tools like **Chef**&**Jenkins**.
* Providing end to end SCM consultation and implementation. In-depth understanding of the principles and best practices of Software Configuration Management (SCM) in agile and SCRUM methodologies.
* Created and maintained continuous build and continuous integration environments in **SCRUM** and **Agile** projects.
* Evangelism of best practices and tools and Programming/scripting skills using tools like shell scripting, **Python** and **Ruby** with Strong communication and cross-functional skills and the ability to execute autonomously given a set of clearly defined strategies
* Expert in deploying the code through web application servers like **Web Sphere**/**Web Logic**/ **Apache Tomcat/JBOSS.**
* Excellent communications skills, configuration skills and technical documentation skills.

**Technical Skills:**

Build Tools : Ant, Maven

Scripting Languages : Shell, Ruby, Perl, C++. Python

Configuration Management : Perforce, Subversion, GIT,PVCS Version Manager

CI Tools : Jenkins/Hudson,AntHillPro, Teamcity, Bamboo

Operating Systems : Windows, Unix, RHEL and Solaris.

Databases : Oracle, MySQL, MS Access

Change Management : Remedy, Service Now, PVCS Tracker.

Web/Application Servers : Tomcat, HTTP Server, WebLogic, JBoss,

Bug Reporting Tools : SDM­12, Bugzilla, JIRA and Rational Clear Quest.

DevOps : Chef, Puppet, OpenStack, AWS, VMware

**Professional Experience:**

**Constant Contact, Waltham, MA** Jan 2016-Till date

***Role:* Sr. DevOps Engineer**

***Responsibilities:***

* Having good experience in **Agile** Methodologies, **Scrum** stories and **Sprints**.
* Responsible for designing and deploying best **SCM** processes and procedures.
* Used both **GIT** and **Subversion** source control systems for different projects.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Provided end-user training for all **GitHub** users to effectively use the tool.
* Involved in writing **parent pom files** to establish the code quality tools integration.
* Experienced in authoring **pom.xml** files, performing releases with the **Maven release plugin**, **Mavenization** of Java projects and managing **Maven repositories**.
* Experience with build tools like Maven Junit, JQuery and have worked in mavenization of multiple projects.
* Created and maintained **Python** scripts for **Automating** Build and Deployment Process and Creating Web Based Application by Using **Django Framework.**
* Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads.
* Deployed **Java/J2EE applications** to Application servers in an agile continuous integration environment and also automated the whole process.
* Installed and Configured the **Nexus** repository manager for sharing the artifacts within the company.
* Created scripts in Python which integrated with **Amazon API** to control instance operations.
* Releasing code to testing regions or staging areas according to the schedule published.
* Implementing a Continuous Delivery framework using **Jenkins, Chef, and Maven** in multiple environments.
* Used **knife command line tool** to manage the nodes, cookbooks, recipes, roles, environments and data bags.
* Written **Cookbooks** and **Recipes** for Deployment Automation and Infra Configuration Management.
* Experience in **IaaS** managing Amazon Web Services (AWS) infrastructure with automation and configuration management i.e., Chef.
* **Boot strapping** the nodes that were created using **AWS EC2** virtual servers.
* Manage configuration of **Web App** and Deploy to AWS cloud server through **Chef**.
* 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.
* Used **JIRA** to track issues and Change Management.
* Understanding of developing and testing enterprise products, with current focus on cloud based application and giving solution to challenges imposed by multi data center deployed **SaaS** products and their needs for DevOps tools and automation.
* Automated the build and release management process including monitoring changes between releases.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.

**Environment: SVN, GIT, Jenkins, Maven, Nexus, Chef, Vagrant, AWS EC2, Virtual Box, Java/J2EE, SVN, WebLogic, TOMCAT, Python Scripts, Perl Scripts, Ruby Scripts, XML, Unix,JIRA.**

***Client:*Bank of Tokyo, Jersey City, New Jersey** May 2015 ­ Dec 2015

***Role:* Sr. DevOpsEngineer**

***Responsibilities:***

* Responsible for design and maintenance of the **Subversion** Repositories, views, and the access control strategies.
* Integrated Subversion for automating builds with Jenkins.
* Managed the **Subversion branching strategy** for a few applications by creating Release branches, Development branches thus ensuring the **integrity of Trunk**.
* Efficiently performed the task of **resolving conflicts** while merging in Subversion with the J2EE development background.
* Used **Ant** to perform daily and weekly Software Builds.
* Installed, administered and configured **Team Forge**, **Jenkins** for Continuous Integration Builds, automated deployments and Notifications.
* Deploying Java Enterprise applications to **Apache Web Server, JBoss Application server**.
* Automate deployment and release distribution process with **Shell** and **Perl** etc.
* Research and recommend open source tools, practices, and methodologies that enhance our day to day productivity.
* Wrote **Puppet modules** for installing and managing **Java versions** and managing persistent **SSH tunnels**.
* Created modules for **Protocols configuration** and managed them using Puppet automation.
* Developed **Puppet Manifests** using ruby for provisioning applications and scripts.
* Installed, Configured and Managed Puppet Master and Puppet Agent.
* Writing modules for **Installation and Updating of Yum repositories** on the Server using Puppet infrastructure.
* Actively involved **in architecting the puppet infrastructure** to manage servers in different environments.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Puppet.
* Involved in periodic archiving and storage of the source code for disaster recovery.

**Environment: Subversion, ANT, Team Forge, Jenkins, Shell Script, Perl Script, Apache Web Server, JBoss Application Server, Puppet, Java/J2EE, AWS, Clear Quest, XML, Unix, Oracle 10g.**

**Agilent Technologies, Wilmington, DE** May 2014 – April 2015

***Role:* DevOps Engineer**

***Responsibilities:***

* Worked on the Microsoft Release management server for maintaining the release management activities
* Deployed a centralized log management system and integrated into **Chef** to be used by developers.
* Written **Chef Cookbooks** and recipes in **Ruby** to Provision several pre­prod environments consisting of **CassandraDB** installations, **WebLogic** domain creations and several proprietary middleware installations.
* Implemented **AWS** solutions using **E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups**.
* Configured **Elastic Load Balancers** with **EC2** Auto scaling groups
* Design, investigation and implementation of public facing websites on **Amazon Web Services (AWS)**
* Wrote **Ansible** Playbooks with **PythonSSH** as the Wrapper to Manage Configurations of **Openstack Nodes** and Test Playbooks on AWS instances using **Python**
* Used Openstack to deploy **Iaas**.
* Experience with writing **Perl**, **PowerShell**, **shell scripts** Used **Maven** scripts to build the source code. Supported and helped to create Dynamic Views and Snapshot views for end users
* Deployed the Java applications into web application servers like **JBoss**
* Deployed **Java/J2EE** applications on to **Apache Tomcat** application servers and configured it to host the wiki website
* Comfortable and flexible with installing, updating and configuring various flavors of **UNIX** and Windows
* Documented all build and release process related items. Level one support for all the build and deploy issues encounter during the build process
* Performed and deployed Builds for various Environments like **QA**, Integration, **UAT** and Productions Environments
* Automated deployment of builds to different environments using **Jenkins**
* Worked on the cloud-based diagramming software called **Gliffy** for creating different types of design documents required for the continuous integration process
* Used **Maven** as build tool on Java projects for the development of build **artifacts** on the source code.
* Implemented & maintained the branching and build/release strategies utilizing **GIT**
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in current release, Defects fixed, Labels applied.

**Environment: GIT, Maven, Jenkins, Apache webserver, Apache JMETER, , Bamboo, Perl, Shell, Shell (bash),OpenStack, Java/J2EE, Apache Tomcat Application Server, Linux, SQL, Python, Clear Quest**

**Auto Desk, CA** Jan 2013 – April 2014

***Role:* DevOps Engineer**

***Responsibilities:***

* Designed and implemented fully automated server build management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins Nodes/Agent, SSH, Amazon EC2 etc.**
* Build server deployment on Cloud (**EC2**) servers with help of devops tools like Puppet
* Created the naming strategy for branches and labels and involved continuous integration system with **GIT** version control repository and Continually build as the check-in’s come from the developer.
* Automating the regular tasks in Subversion and streamlining the process of access to **SVN**.
* Built Continuous Integration environment (**Jenkins, Nexus**). And Continuous delivery environment (**puppet**, **Yum, rsync**).
* Integrated delivery (CI and CD process) Using Jenkins, Nexus, Yum and puppet.
* Responsible for distributed applications across hybrid AWS and physical data centers
* Strengthening security by implementing and maintaining Network Address Translation in company’s network
* Supported small to medium sized projects using **GIT**
* Worked on integrating **GIT** into the **continuous Integration (CI**) environment along with **Anthill-Pro, Jenkins**
* Worked with Performance engineers on Configuration of the environment
* Developed a continuous deployment pipeline using **Jenkins, Ruby/shell scripts**.
* Supporting Local System Administrators to troubleshoot **Configuration Management** and Network issues.
* Analyzing and recommending hardware and software needs and installing them.
* Created and maintained continuous build and continuous integration environments in **SCRUM** and **Agile** projects.

***Environment*: SVN, Jira, Maven, ANT, Jenkins, Puppet, Unix Shell Scripting ,OpenStack, JBoss Application Servers, Anthill Pro, SGIT, AWS**

**Kone Corporations, Chennai, INDIA** Sep 2011­Dec 2012

***Role:* DevOps/Release Engineer**

***Responsibilities:***

* As member of Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on Unix platform.
* Worked with Subject Matter Expert to Build and Release Management methodologies, hands-on experience creating and managing the various development and build platforms, and deployment strategies.
* Performed weekly and on­call deployments of application codes to production environments.
* Perform software builds using version control tool IBM Rational ClearCase (**UCM** and BASE).
* Writing config specs and creating views for developers.
* Involved in creating new elements in **VOB'**s.
* Created classes, **JAR** and **EAR** files from **VOB's** using **ANT** scripts.
* Builds and deploys J2EE application in Web Sphere. Build and maintain **SQL** scripts and execute different scripts for different environments.
* 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 **SVN** version control tools.
* Merged release branches to the trunk after the production release and resolved the conflicts if any during the merge in Subversion.
* Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage Java applications across **Linux** servers. Conducting meetings with developers and managers in order to resolve merge issues during build and release
* Responsible for designing and deploying best **SCM** processes and procedures
* Posting the Build on time & following it up the testing team on posted builds
* Full ownership of the build including sanity. Good Quality release notes. 100 % Error free handling of all on to Component.
* members and responsible Following up with the Test Team & Development Team.
* Built and Deployed **Java/J2EE** to a web application server in an **Agile** continuous integration environment and also automated the whole process
* Created and maintained the Shell/Perl deployment scripts for **WebSphere** application servers.
* Developed **Perl** and **shell** scripts for automation of the build and release process.
* Involved in editing the existing **ANT** (**Build.XML**) files in case of errors or changes in the project requirements.
* Perform periodic system audits on all environments to ensure that only controlled versions of software reside all environments.
* Responsible for building and releasing packages for testing
* Used **Build Forge** as a continuous integration tool for automation of daily process
* Used **ClearQuest** as Ticketing Tracking tool
* Created analytical matrices reports for release services based on Remedy tickets.
* Trained offshore team for knowledge transfer.

**Environment: Java, J2EE,C++, Unix, Maven, GIT, SVN, ANT, Jenkins, Web Sphere. Python ClearCase, ANT, WebSphere, Perl Scripts, Shell Scripts, JAVA, BuildForge and ClearQuest**

**Sears Holdings Corp, Pune, India** March 2010-Aug2011

***Role:*DevOps/Linux Administrator**

***Responsibilities:***

* Managed and administrated of all **UNIX** servers, includes Linux operating systems by applying relative patches and packages at regular maintenance periods using Red Hat Satellite server, YUM, RPM tools.
* Planned and performed the upgrades to **Linux (RHEL 5x, 6x, SUSE 10, 11, CENTOS 5, 6,** operating systems and hardware maintenance like changing memory modules, disk devices, SAS, SATA & SCSI devices.
* Handling **NFS, Auto Mount, DNS, LDAP** related issues.
* Monitoring CPU, memory, physical disk, Hardware and Software RAID, multipath, file systems, network using the tools **NAGIOS 4.0** monitoring.
* Install new / rebuild existing servers and configure hardware, peripherals, services, settings, directories, network, storage in accordance with standards and project/operational requirements
* Troubleshooting cluster related problems by checking log files and using cluster commands.
* Performing failover and integrity test on new servers before rolling out to production.
* Performed **Kick start** installations in Linux.
* Deployment and Configuration of application server **JBoss** deploying **Java** and **Web Application**.
* Writing Shell scripts for automation of daily tasks, documenting the changes that happen in the environment and in each server, analyzing the error logs, analyzing the User logs, analyzing the /var/adm/messages.
* Supported host provisioning using **Satellite, Kickstart, and CFEngine**
* Worked on **OpenStack** project which included code review, continuous integration systems, and developer tools
* Responsible in Building Object Oriented Applications using Java, writing Shell scripts on UNIX.
* Planned, scheduled and Implemented OS patches on Linux boxes as a part of proactive maintenance and **Secure Shell (SSH)**implémentation.
* Installed and configured **Red Hat 5.0/6.0** on Dell Power Edge server.
* Installed and administrated of **Splunk** in Red Hat Linux.
* Installed **VMware ESX** server on Dell Servers and configured **SUSE 11.x Red Hat Linux 5.0, 6.0** / Windows virtual machines for various applications.
* Installation of software packages and checking the verification of installed packages.
* Identify, troubleshoot, and resolve problems with the build process
* Developed and maintained deployment plans, release notes and version matrix.
* Produced automated software builds using variety of open source, scripting and proprietary tools.
* Identify, troubleshoot, and resolve problems with the build process
* Developed and maintained standard operating procedures and work instructions for deployment processes.
* Assist the Information security system in using **GitHub** for code sharing and publishing service.
* Used Rational Team Concert to provide collaborative change management for faster software delivery.
* Used **Jenkins** to perform continuous integration. Also monitor version control and build process.
* Automate deployment and release distribution process with Shell, Perl and **Hudson**
* Maintenance of continuous integration based on **Maven** and **Hudson**
* Provide support to development, test, customer service and production support.
* Used **Chef** for managing server application server such as **Apache, MySQL.**
* Installation, configuration, and customization of services Sendmail, Apache, FTP servers to meet the user needs and requirements.
* Performing kernel and database configuration optimization such that it limits I/O resource utilization on disks.

***Environment:* Red Hat Linux 4.x, 5.x, Oracle 10g, Samba, Autosys, VMware vSphere 4.0, VMware ESX 3.5.0,VMware ESX 4.0.0 , IBM DS Storage Manager, GIT, Openstack, Jenkins, Shell Scripting.**

**United Power Tech private LTD, Bangalore.** Oct 2008 to Feb 2010

***Role:*LINUX Administrator**

***Responsibilities:***

* Configuration management for all **cloud environments.**
* Prepare specs for new infrastructure and **VMware servers, disk storage**, and network switches, routers, firewalls, and VPN's.
* Administered Linux servers for several functions including managing **Apache/Tomcat** server, **mail** server, **and MySQL** databases in both development and production.
* Installed Redhat Linux using Kickstart and applied security patches for hardening the server based on the company's policies.
* Created users, manage user Administered, maintained **Red Hat 3.0**, **4.0**, **5.0, 6.0 AS**, **ES**, Troubleshooting Hardware, Operating System Application & Network problems and performance issues; Deployed latest patches for, **Linux** and **Application servers**, Performed **Red Hat Linux Kernel Tuning**.
* Experience in implementing and configuring network services such as **HTTP, DHCP, and TFTP**.
* Install and configure **DHCP**, **DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3),** and file servers on Linux servers.
* Create **file transfer server** for customer data exchange.
* Automate network permissions, maintain User & File System quota on Redhat Linux.
* **Bash** shell-scripts to automate routine activities.
* Monitored trouble ticket queue to attend user and system calls.
* Experienced working with Preload Assist and PICS projects.
* Migrated database applications from Windows 2000 Server to Linux server.
* Installing and setting up Oracle9i on Linux for the development team.
* **Linux kernel**, memory upgrades and swaps area. Red hat Linux **Kickstart** Installation.
* Capacity Planning, Infrastructure design and ordering systems.
* Successfully installed and configured **NAGIOS** monitoring system to monitor the production server environment.
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.
* Design, build, and maintain production network **RAID** storage system.
* Diagnosed hardware and software problems and provided solution to them.
* Updated data in inventory management package for Software and Hardware products.
* Worked with DBAs on installation of RDBMS database, restoration and log generation.

***Environment:*Red Hat Linux 3.0,4.0,5.0 AS ES, HP-DL585, Oracle 9i/10g, Samba, VMware Tomcat 3.x,4.x,5.x, Apache Server 1.x,2.x, Bash**

**Education:**

* Bachelors of Engineering in Computer Science from SRM University, India.