**Tharun Reddy**

**DevOps Engineer/Cloud Engineer**

469-567-9098

[Reddytunix@gmail.com](mailto:Reddytunix@gmail.com)

# Summary

* DevOps Engineer with over Eight years of experience with extensive experience in Installation, configuration and application working in various designations like System Admin, System Engineer and DevOps Engineer.
* Expertise in setting up new virtual server hosts, installing them with OVS and maintaining them on OVM and familiar in working with VMware ESX servers for enterprise level virtualization.
* Configured Node, Nginx, Apache web server, Tomcat, java, MySQL, Sendmail / postfix.
* DevOps Environments and various tools like Puppet, Chef, GIT, SVN, Jenkins, Docker, Kubernetes, Bitbucket, Jira, Cloud Bolt, Artifactory as a DevOps Engineer.
* Experience in version control systems such as Git, GitHub, Perforce and maintaining repos like Nexus.
* Experienced Managed Ubuntu, Linux and Windows virtual servers on AWS EC2 using Puppet
* Experience in cloud technologies like RedHat Cloud Forms, Cloud9 & AWS.
* Experience in using Continuous Integration and Continuous Deployment systems like Jenkins.
* Experienced in code deployment using HP Opsware Automation Client / Rundeck / Capistrano.
* Experienced in Monitoring system Access and Monitoring servers by using tools like Tivoli, Nagios, Spectrum, Cacti, Concord, New Relic, Splunk and Wily.
* Experience in configuring the Docker containers and creating Docker files for different environments.
* Experience working with Chef Enterprise and Chef Open Source, Chef DK, Chef Workstation, Chef Server, Chef client.
* Designed and implemented Software configuration management (SCM) and change management (CM) solution using Ansible, Jira and Jenkins ,Configured SonarQube for code coverage.
* Managing Linux virtual servers on AWS EC2 using Chef Server.
* Experience in creating and writing shell scripts (Bash), Ruby, Python and PowerShell for setting up baselines, branching, merging, and automation processes across the environments using Atlassian tools like GIT, Bitbucket and Stash on Linux and windows platforms
* Experience in Virtualization technologies like VMWare, Vagrant and worked with containerizing applications like Docker, Kubernetes.
* Experience in using Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Created continuous integration system using Ant, Jenkins, Puppet full automation, Continuous Integration, faster and flawless deployments.
* Expertise in User & Security administration, backup & recovery and maintaining Unix Account management.
* Experienced in racking new servers / storage arrays, configuring RAC IP, setting up virtual disks in different RAID levels and getting them ready for OS install.
* Exposure to ticketing systems like BMC Remedy, JIRA, Service Now and various other internal ticketing systems.
* Performs root cause analysis (RCA) of technical issues.
* Experienced in working in Data centers with 24X7 Production and On-Call Environments.

**Technical Skills**

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| Languages: | UNIX Shell Scripting (bash), Ruby, Python |
| Operating systems: | Linux (RHEL 5.x/6.x/7.1), Solaris 8/ 9/ 10, AIX 5L (5.1/5.2/5.3), Fedora,  MS-DOS, WIN 2003/ 2008/ XP, VMware ESX 2.x/3, OVS. |
| Web designing: | HTML, PHP. |
| Packages: | Microsoft Word, Power Point, Excel. |
| Networking: | TCP/IP, NIS, NFS, DNS, DHCP, WAN, SNMP, SMTP, HTTP, LAN,  FTP/TFTP, SCP, F5 (GTM/LTM). |
| Monitoring Tools: | Wily, Nagios. |
| Automation Tools: | Puppet, Chef, RunDeck. |
| Repositories: | Git, GitHub, Nexus. |
| Ticketing Tools: | Service now, JIRA, BMC Remedy. |
| Cloud Technologies: | VMware, AWS. |

# Professional Experience:

**Lead DevOps Engineer****|**

**SSH Communication Security |  Mar 2016- Current**

**Waltham, MA**

**Responsibilities:**

* Worked as a Lead DevOps Engineer for two team that involves multiple simultaneous software releases and application migration to the cloud on AWS and Predix.
* Implementing a Continuous Delivery framework using Jenkins, Puppet, Maven and Nexus in Linux environment.
* Implementing new projects builds framework using Jenkins & maven as build framework tools
* Integration of Maven/Nexus, Jenkins, Urban Code Deploy with Patterns/Release, Git, Confluence, Jira.
* Using Jenkins AWS Code Deploy plugin to deploy to AWS.
* Implemented AWS solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Worked in Creating & Handling cookbooks and recipes using Ruby in Chef workstation & Deploying them to various nodes.
* Manage, Implementation and configuration - RTC, Maven, ANT, Jenkins, Nexus, Ansible, SonarQube.
* Created and updated Chef recipes and cookbooks, profiles and roles using Ruby and JSON scripting.
* Developed Chef Cookbooks, recipes, roles and data bags to automate the services related to deployment
* Configuring the Docker containers and creating Docker files for different environments.
* Implemented a Continuous Delivery pipeline with Docker, and GitHub and AWS.
* Experienced Managed Linux and Windows virtual servers on AWS EC2 using Puppet.
* Developed automated provisioning and deployment system using Puppet custom modules and manifest.
* Carried out deployments and builds on various environments using Puppet continuous integration tool.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Puppet.
* Implemented a Continuous Delivery pipeline with Docker, and GitHub and AWS.
* Deployed Puppet, Puppet dashboard for configuration management to existing infrastructure.
* 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.
* Experienced Managed Ubuntu, Linux and Windows virtual servers on AWS EC2 using Puppet.
* Created private cloud using Kubernetes that supports DEV, TEST, and PROD environments.
* Developed automated provisioning and deployment system using Puppet custom modules and manifest.

**Environment:** RHEL 6.x, Win 2008 R2/2012, VMware, Puppet, Splunk, New Relic, SonarQube, Maven, Docker, Wily, F5, Jenkins, Git, GitHub, Tomcat, Nginx, Rundeck, Kubernetes, AWS.

**Devops Engineer**

**Xerox Jan 2014-Feb 2016**

**Rochester, NY**

**Responsibilities:**

* Designed and executed fully automated server build management, monitoring and deployment using Puppet.
* Developed Puppet modules and manifests to automate deployment, configuration, and lifecycle management of key clusters.
* Created continuous integration system using Ant, Jenkins, Puppet full automation, Continuous Integration, faster and flawless deployments.
* Maintained Chef Configuration management spanning several environments in VMware and the AWS cloud.
* Created Continuous Build Process using Jenkins as Continuous integration tool.
* Worked on build scripts using Ant and Maven build tools in Jenkins to move from one environment to other environments.
* Installed SonarQube plugin in Jenkins and integrated with project maven script.
* Automated deployment of builds to different environments using Jenkins.
* Worked on build scripts using Ant and Maven build tools in Jenkins to move from one environment to other environments.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI's
* Implemented a continuous delivery using Jenkins in Linux environment.
* Used Puppet to maintain configuration on Linux servers.
* Deploying application using Jenkins server and Troubleshoot build and release job failures, resolve, work with engineering on resolution.
* Virtualized the servers using the Docker for the test environments and dev-environment needs and configuration automation using Docker containers.
* AWS and Open stack to provision new machines for clients. S3 Storage Services on AWS.
* AWS EC2 and Cloud watch services. CI/CD pipeline management through Jenkins. Automation of manual tasks using Shell scripting.

**Environment:** Puppet, Ant, Maven, Subversion, AWS, Linux (Red Hat), GITHub, SonarQube, Jenkins, Docker, Bash, Nagios, LVM.

**Build & Release Engineer | CDAC | Aug 2012- Dec 2013**

**Chennai, INDIA**

**Responsibilities:**

* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Involved in Setup and Configuration of Puppet Configuration Management.
* Installed and configured an automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository.
* Used Jenkins, Build forge for Continuous Integration and deployment into Tomcat Application Server.
* Responsible for the creating and maintaining automated builds for projects written in Java, C/C++, PHP, HTML/CSS, using Jenkins
* Assist with maintaining current build systems, developed build scripts, and maintained the source control system
* Used ANT Scripts and Shell scripts to automate build and release process.

**Environment:** Java/J2ee, Eclipse, Puppet, Ant, Maven, Jenkins, Subversion, VMware, GIT, Apache, Tomcat, BASH, Unix, Python

**System Engineer |ORL Industries |April 2010 –July 2012**

**Hyderabad, INDIA**

**Responsibilities:**

* Installation and Configuration of RHEL 6, SLES 9.
* Created scripts to generate disk and file space alerts.
* Deployed latest patches for, Linux and Application servers, performed Red Hat Linux Kernel Tuning
* Install host firewall IP Tables for RHEL and Centos.
* Troubleshoot various systems problems such as application related issues, network related issues, hardware related issues etc.
* Involved in installing subversion version control and creating and administering repositories.
* Involved in taking the weekly backups of the repositories and managing the repositories.
* Bash Shell scripting for various automation of system administrative tasks.

**Environment:** Solaris, RHEL, CentOS, AIX, VVM, SLES.