**Mani Reddy **

**(503)467-1477**

[manireddy1020@gmail.com](mailto:manireddy1020@gmail.com) Validation Number:WS7X88GKCF111BCM

# PROFILE SUMMARY

Over 9 years of IT experience with profile of Software **Configuration/Build/Release** Management/Continuous Integration and expertise on version control tools like **Subversion, Clear case** administration, Managing build and multiple releases. Also worked on **Clear Quest** (Bug Tracking Tool) administration and have hands on Build Automation tools like Hudson and Continuum. Over the course of my career, I have gained lot of experience in assessing the environment and recommending the appropriate **SCM tool**, recommending appropriate labeling / branching / merging / backup strategies and experience in using **CVS, Subversion, VTFS, Perforce, GIT and Rational Clear Case** on UNIX and Windows environment. Experienced in working on DevOps/Agile operations process and tools area (**Unit test automation, Build & Release automation, Environment, Service, Incident and Change Management**).

* Hands on experience using **Automation/Build tools** like **Jenkins, Chef, Puppet, Ansible, Ant, Maven.**
* Experience in using **Version Control Tools** like **TFS, Stash, VSS, Sub-Version, Git**.
* Experience in using Continuous Integration tools like **TFS Team Build**, **Cruise Control**, Build Forge, and **Jenkins.**
* Configured and maintained **Jenkins** to implement the **CI process** and integrated the tool with **Ant** and **Maven** to schedule the builds.
* Expert knowledge of **SCM** concepts (branching, merging, integration, versioning, etc.)
* Experience in working on **Jenkins**, **Cruise Control**, **Team City**, **Terraform**, **Bamboo** and **Hudson** for continuous integration and for **End to End automation** for all Build and Deployments.
* Experienced in using **monitoring tools** like **Nagios** and **Splunk**.
* Experience configuring and managing **Chef master server** and experience in updating and creating modules and pushing them to **Chef clients**.
* Automated **JBoss/Tomcat** application server deployments using **Chef manifests**. Used these manifests to replicate various environments.
* Managed **Linux and Windows** virtual servers on **AWS EC2** using **Chef Server**. Configured, monitored and distributed multi-platform servers using **Chef.**
* Transformation of traditional environment to virtual environment with **AWS-EC2, S3, CHEF, PUPPET, Dockers, Vagrant and VMware.**
* Experienced in Virtualization Technologies for Client and Mobile environments including: **Vmware Realize Horizon View, Vmware ThinApp, Microsoft Hyper-V RDP Clients, Citrix XenDesktop / XenApp.**
* Experienced in Vmware Management and Automation Tools: **Vcenter 6, (VCo) Vcenter Operations Manager, (VRo) VRealize Operations, Vcenter Orchestrator, VRealize Automation, Vmware Configuration Manager**.
* Experience configuring and managing **Puppet master server** and experience in updating and creating modules and pushing them to **puppet clients**.
* Automate repetitive tasks, deploy critical applications and manage change on several servers using **Puppet**.
* Worked on **puppet manifest files and puppet master** to bring the configuration from the actual state to the desired state.
* Proficient in using all amazon web services like **EC2, EBS, IAM, S3, ELB, RDS, VPC, Route 53, Cloud Watch, Cloud Formation** etc.
* Experience in **Log Insight** and **Cloud watch** services to diagnose problems and configuring alerts.
* Setting up **Auto scaling** of the instance group using **AWS command line tools** and **AWS cloud environment** for Dev/QA environments.
* Troubleshoot and resolve **Splunk performance**, **Log Monitoring issues**, **Dashboard creation**, **Data models**.
* Experience with **container**-based deployments using **Docker**, working with **Docker images**, **Docker hub** and **Docker registries**.
* Experienced in using **Docker** and **Openshift** to manage micro services for development and testing.
* Experienced in operating the infrastructure and configuration of **Red Hat Openshift**.
* Experience in administering and configuring **Nexus Repository Manager** for **Maven** builds.
* Responsible for reviewing and providing technical support, documentation of **UNIX** server builds and disaster recovery operations.
* Designed, developed, implemented, and maintained custom **Gradle tasks in Java and Groovy**.
* Expertise in working with different **Bug Tracking Tools** like **JIRA, Clear Quest and Quality center**.
* Experience is using **Tomcat, JBOSS, WebLogic and WebSphere Application** servers for deployments.
* Working experience of **LDAP, NIS, DHCP, TCP/IP NFS & DNS.**
* Involved in **Unit Test Cases** writing and having good knowledge in **JUnit**.
* Extensive experience of designing and developing software applications with **Microsoft Visual studio** and **.NET Framework** various versions using **C#, ASP.NET**.
* Experienced in setup and maintained **Load Balancers like F5, Netscaler**. TCP/IP fundamentals **DNS, FTP, LDAP**, Remote Access, Security Management, System Troubleshooting skills, and good knowledge in networking concept including Firewalls.
* Performed numerous server migrations on both **Linux/Unix** and Windows servers. Migrations include moving all clients and their data, configuration settings, testing and verifying everything is correct with zero downtime.
* Expertise in Querying **RDBMS** such as **Oracle, MY SQL and SQL Server.**
* Worked with different **NoSQL databases** like **MongoDB** and **HBase**.
* Published **build & release** for daily in QA environment. Maintained QA and solved issue of QA and maintain DB version according releases. Published code and DB on production and staging as per business requirement
* Hands on experience using **Chocolatey** package manager for windows.
* Knowledge about **Microsoft Azure** in creating cloud environment and managing the application servers across Microsoft managed global data cent.
* Hands on experience working with current licensing strategies around Open Source (**Apache Foundation, GNU, MIT License**).

# TECHNICAL SKILLS

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| **Configuration Management Tools** | Puppet, Chef, Vagrant, Ansible. |
| **Continuous Integration** | Jenkins, Bamboo, Stash. |
| **Build Tools** | Ant, Maven, Groovy, Xcode, MSBuild. |
| **Project management** | Jira, Confluence. |
| **Version Control** | TFS, Git, Github, Gitlab, CVS, Subversion, Stash. |
| **Cloud Platforms** | AWS, Azure. |
| **Container & Orchestrator** | Docker, Kubernetes, Artifactory, Openshift |
| **Testing Tools** | Selenium, Junit, HP Quality Center, HP ALM, Jmeter, Test Flight, Test Rail, Appium. |
| **Virtualization Platform** | VMware WorkStation, Vrealize Suite, Oracle Virtualbox and Vsphere. |
| **Ticketing Tools** | JIRA, Remedy, HP Service manager. |
| **Monitoring Tools** | Cloud Watch, Nagios, Splunk, App Dynamics, Elastic search, Kibana, Logstash, Zabbix. |
| **Operating Systems** | Linux (Red Hat 4/5/6, SUSE), Ubuntu, CentOS, Windows Variants and Unix. |
| **Database:** | Oracle 11.x, My SQL, SQL Server 2008 and MongoDB. |
| **Programming Languages** | Java, C, C++, HTML 5, CSS 3. |
| **Scripting** | JavaScript, Python, Perl, Bash shell, Ruby, Groovy |
| **Web Technologies** | Wildfly, Web logic, web Sphere, Tomcat, Apache, JBoss, F5 Load Balancers. |
| **Open source Technologies** | Logstash, Kibana, Telegraph, Chronograph, Elasticsearch |

**CERTIFICATIONS:**

AWS CERTIFIED DEVELOPER ASSOCIATE**.**

# PROFESSIONAL EXPERIENCE

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| Role | Sr. DevOps/Azure Engineer |
| Client/Location | Nuance Communications, Burlington, MA |
| Duration | Jan 2018-Present |

**Responsibilities:**

* Solutions Consultant responsible for architecture decisions and tasks for ongoing migration efforts.
* Design, install, administer, and optimize hybrid cloud components to ensure business continuity (i.e. Azure AD, ADFS, SSO & VPN Gateways.).
* Involved in the design and development of web application in C#.NET, ASP. Net, User Controls and deployment in the cloud environment.
* Worked on various Azure services like Compute (Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation.
* Responsible to develop services using .NET/C# code and Web API technology (Restful API)
* Developed ASP.NET Web API services to return JSON and XML Format.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Successfully migrated companies from various environments into Office 365 Cloud Services.
* Install and Configure Virtual Machines (VM), VM tools on ESX boxes from the GUI and console.
* Identifying opportunities to improve infrastructure that effectively and efficiently utilizes the Microsoft Azure Windows server 2008/2012/R2, Microsoft SQL Server, Microsoft Visual Studio, Windows PowerShell, Cloud infrastructure.
* Migrated the existing SharePoint sites to .Net MVC with Azure cloud environment
* Used ASP.NET MVC framework to support the use of Dependency Injection to inject objects into a class, instead of relying on the class to create the object itself.
* Architect, develop, plan and migrate servers, relational databases (SQL) and websites to Microsoft azure cloud.
* Create the Virtual Machine cluster and load balance for VM's using PowerShell in SQL & Windows Environment.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Was also involved in building the Web API to perform all the CRUD operations. And used new AzureAPI management for security, throttling, analytics, monitoring, and alerts
* Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Developed U-SQL Scripts for schematizing the data in Azure Data Lake Analytics.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Responsible for Bit locker full disk encryption management, Enabled and configured BitLocker drive encryption on all laptops.
* Tested and Deployed existing security patches via Microsoft Intune for workstations.
* we melded everything together using mostly Python as the development language.
* Expertise in Azure infrastructure management (Azure Web Roles, Worker Roles, SQL Azure).
* Script, debug and automate PowerShell scripts to reduce manual administration tasks and cloud deployments.
* Configure Implement, Secure and support Virtual Network and best security practices for single and multi-regional data centers.
* Used Bit locker for disk encryption in Windows 2012 Server.
* Deployed the packages on staging and production. Monitored jobs and supported Azure Data Lake production environment.
* Azure AD - Implemented Azure AD using AD connect, configured SSO and multifactor Authentication. Also configured SSO from Window 10 based computer which is joined to Azure AD. Implemented and managed AD synchronization
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.

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| Role | Sr. DevOps Engineer/ Cloud Engineer |
| Client/Location | ASICS, Irvine, CA |
| Duration | Sep 2015- Dec 2017 |

**Responsibilities:**

* Involved in reorganization of the DevOps team to scale the organization's application deployment platforms.
* Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.
* Coordinated with Release Management regarding appropriate system releases among other development platforms.
* Responsible for applying the Corporation's Software Configuration Management processes to projects, setting up and maintaining TFS/GIT/GitHub infrastructure and supporting a continuous delivery model by automating software build and package migration processes.
* Created and maintained continuous integration (CI) using tools Jenkins/Maven over different environments to facilitate an agile development process which is automated and repeatable enabling teams to safely deploy code many times a day while ensuring operational best practices are supported.
* Design and document CI/CD tools configuration management.
* Integrated Team city and Octopus to current TFS environment.
* Integrated Team city with TFS instance for CI and Octopus Deploy for CD.
* Worked on TFS rally connector to synchronize user stories and tasks to directional.
* Worked with Dev teams on TFS performance monitoring in new TFS 2013 environment.
* Migration of share point from WSS 3.0 to TFS 2013 and integrating it with TFS.
* Responsible for orchestrating CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Build and Deployment of CI/CD Pipelines.
* Used chef for server provisioning and infrastructure automation in a SAAS environment.
* Integration of Automated Build with Deployment Pipeline. Currently installed Chef Server and clients to pick up the Build from Jenkins repository and deploy in target environments (Integration, QA, and Production).
* Implemented scheduled downtime for non-prod servers for optimizing AWS pricing.
* Configured AWS Identity and Access Management (IAM) users and groups for improved login authentication.
* Configuration of Notification and Monitoring Alerts for IAM Solutions.
* Created proper documentation for new server setups and existing servers.
* Worked on Cloud automation using AWS Cloud Formation templates.
* Hands on experience collecting data on EC2 instances including: CPU utilization, disk read and write operations, and number of bytes received and sent over the network using Cloud Watch monitoring.
* Experienced in setting up Cloud Watch events like Amazon EC2 instance state-change events, Auto Scaling lifecycle events, and instance launch and terminate notifications, Scheduled events, AWS API call and console sign-in events reported by AWS Cloud Trail.
* Implemented Chef Recipes for Deployment on build for internal Data Centre Servers. Also re-used and modified same Chef Recipes to create a Deployment directly into Amazon EC2 instances.
* Used Nagios log server for network device log collection, network device log visualization, Nagios Network analyzer for net flow collection and analysis of IP transactions.
* Automated the WordPress and MySQL container deployment in Docker using Python and monitoring of these containers using uptime robot and Nagios.
* Evaluating testing of Chef Recipes – Concept of Test Driven Development for Infrastructure as a Code.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.
* Implemented Chef Cookbooks for OS component configuration to keep AWS server’s template minimal.
* Written Chef Cookbooks for various DB configurations to modularize and optimize the product configuration.
* Supporting Chef Environment with 2000+ servers and involved in developing manifests.
* Implemented and building tools such as Ant/Maven to automate and enhance the overall operational environment.
* Automated build and the deployment process. Worked with the testing teams to automate test cases as part of the post deployment action and did Cucumber setup for testing automation.
* Managed and performed the environment related configuration changes as a part of deployment.
* Merged release branches to the trunk after the production release and resolved the conflicts rose during the merge in GIT.
* Performed tasks on F5 load balancer like ordering new certs, installing and renewing SSL certificates, bouncing servers with performance issues after taking them out of the server pools, ID maintenance, User, Group management for all the UNIX servers
* Created the branches in GIT to implement the parallel development process.
* Coordinated Release effort amongst various teams (Dev, QA, DBA and Business Analysis) in geographically separated environment.
* Developed, documented, and automated reusable build and release processes for Visual Studio Team Services (VSTS) and TFS applications using Serena, Ant, Maven, and DOS batch scripts.
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Associated in implementing SonarQube code quality analysis tool for the code.
* Performed defect tracking and Management in JIRA. Generated automated daily reports using JIRA API.

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| Role | Devops Engineer |
| Client/Location | Applied Medical, Irvine, CA |
| Duration | Oct 2013- Jul 2015 |

**Responsibilities:**

* Administration of Sun Servers (SPARC and x86) running Solaris 9, 10 and Dell, HP Servers running SUSE, Red hat EL 3, 4.x, 5 which included jumpstarting, performing live upgrades of Solaris operating systems and Kick starting Red hat EL 3, 4.x, 5
* Creation of VMs for SUSE, Solaris x86 and Red hat Linux on VMWare ESX 3.5 and administering them with VI Client.
* Created detailed documentation of complex build and release process, post release activities process, JIRA workflow and Release notes.
* Implemented best practices of agile methodology to speed up the delivery process efficiently.
* Worked with SVN to manage source code repositories and performed branching, merging, and tagging depending on requirement.
* Performed SVN to GIT migration and Implemented & maintained the branching and build/release strategies utilizing GIT.
* Performed all necessary day-to-day GIT support for different projects.
* Configured Ansible to manage AWS environments and automate the build process for core AMIs used by all application deployments including Auto scaling, and Cloud formation scripts.
* Maintaining and Supporting Client servers for PaaS and SaaS on Cloud based infrastructure.
* Involved in writing Ansible playbooks for setup and configuration of tools including Jenkins and artifactory on remote servers using REST API protocol.
* Introduced effective ways of communication and stream-lined use of JIRA, Confluence and to maximize productivity and bring discipline between Dev-QA communication gaps.
* Attended daily stand up meetings, bug-scrub meetings, Sprint planning meetings and Weekly release health check-up meetings as best practices of agile environment.
* Imported and managed multiple corporate applications into Bitbucket management repo
* Maintain GIT, Bitbucket repository, handling branching, Merging, tagging and release activities.
* Responsible for maintaining bitbucket up to date for all the deployments which uses code base.
* Worked with Ant/ Maven to Build artifacts and deploy.
* Creating scripts to create new tables, views, queries for new enhancement in the application using Aginity Workbench for Redshift.
* Responsible for maintaining bitbucket repository in making changes to the code base and making sure the master is up to date.
* Used Terraform to handle all the setup of underlying infrastructure resources and services required for automation tools to effectively do their jobs.
* Involved in Terraform integrations, focusing on Go, distributed systems, and infrastructure automation tooling.
* Hands on experience on Terraform a tool for building, changing, and versioning infrastructure safely and efficiently.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Used DTT scripts on Linux environment to run the queries and load the data to Redshift using Amazon Web Services (AWS)
* Work closely with developers, QA teams, Product owners and other stakeholders to deploy efficiently on various sandbox instances.
* Worked together with developers to fine-tune process for newly introduced Atlassian tools in organization like JIRA, confluence, Stash-Git repository, Source tree.
* Configured RDS instances using Cloud formations and Terraform.
* Merged Develop branches to Master Branch after successfully completing pull request in stash.
* Extensive experience in JIRA for creating bugs tickets, storyboarding, pulling reports from dashboard, creating and planning sprints.
* Managed administrative tasks, roles and permission and site maintenance through Demand ware Exchange.
* Executed various scripts to automate build and release process.
* Assisted QA team to monitor post deployment activities and encouraged reporting and feedback process.
* Communicated failed builds and error logs to QA and Developers to debug and troubleshoot problem areas.

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| Role | Build and Release Engineer |
| Client/Location | Common Wealth of Pennsylvania, Harrisburg, PA |
| Duration | Jan 2013 – Sep 2013 |

**Responsibilities:**

* Redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on UNIX platform.
* Responsible for Development -Testing, Staging, Pre-Production and Production Builds and Releases.
* Configuring and maintaining the code in Subversion and ClearCase.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Maintained two Jenkins servers and one **Bamboo** server to deploy into production and nonproduction environments.
* Integrated Maven with Subversion to manage and deploy project related tags.
* Created analytical matrices reports, dash boards for release services based on **JIRA** tickets.
* Finally reach continuous delivery and Build clouds with Open stack and AWS.
* Managing Virtual machine using VMware, AWS
* Responsibilities include designing and developing new back-end services, maintaining and expanding our AWS infrastructure, and providing mentorship to others on my team.
* Supported 1500+ **AWS Cloud instance’s** and used AWS command line Interface to manage and configure various **AWS** products. Wrote automation scripts in Ruby and bash.
* Working closely with the setting up of the Configuration Management Tools Puppet and automation of the infrastructure with Chef that included migrating from the current infrastructure workflow to the new workflow.
* Fisheye used to extract the information from repository and Crucible used to code review.
* Integration of Build Forge with Blade Logic and raising a build request through ClearQuest.
* Deployed Enterprise Application Archive (EAR), Web Application Archive (WAR), JSP's, and Servlets in staging and production.
* Builds and deploys J2EE application in WebSphere 6.1and 7.1 using python scripts.
* Coordinated application release with developer, DBA, QA and project management teams.
* Prepared Migration logs for every release and maintained the data accuracy and identifying the testing Environment and confirmed the Current Code Level and Planned Release schedules.

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| Role | Build Engineer |
| Client/Location | Kroger, Blue Ash,OH |
| Duration | May 2010- Dec 2012 |

**Responsibilities:**

* Developed build and deployment processes for Pre-production environments.
* Used Subversion as source code repositories.
* Managed SVN repositories for branching, merging, and tagging.
* Developed Shell/Perl Scripts for automation purpose.
* Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads.
* Responsible for designing and deploying best SCM processes and procedures.
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Designed a CM solution that used Clear Case UCM integrated with Rational Clear Quest.
* Perform administration of users, supported team for parallel development. Wrote Shell/Perl/Ant files to automate certain processes for the smooth process of use of build tools like Build Forge.
* Involved in writing parent pom files to establish the code quality tools integration.
* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Used Jenkins, Build forge for Continuous Integration and deployment into Tomcat Application Server.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Supported and developed tools for integration, automated testing and release management.
* Verified if the methods used to create and recreate software builds are consistent and repeatable.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.
* Releasing code to testing regions or staging areas according to the schedule published.

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| Role | Linux Administrator |
| Client/Location | Tech Aspect, India |
| Duration | Jun 2008 – Mar 2010 |

**Responsibilities:**

* Supported Clients Environment, and systems troubleshooting that involving RHEL and SUSE server's in a large scale environment.
* Performing software installations and upgrades to Red Hat Linux 4.x, 5.x, 6.x and maintaining them in accordance with established policies, procedures and service level agreements.
* Creating and maintaining User accounts, profiles, security, rights, disk space and process monitoring.
* Performance Management & Tuning of RHEL
* Package management using RPM and YUM in Red Hat Linux.
* Installed and configured SAMBA server for windows and Linux connectivity.
* Coordinated with security team to deploy of patches and packages to RHEL and Solaris servers.
* Setup and Configuring Kickstart Server for RedHat EL (RHEL) and auto install with SUSE Linux Enterprise Server (SLES) / Open SUSE and automated the installation of the servers at a largescale infrastructure environment.
* Installed, configured, and login 1,500 servers.
* Worked on networking protocols TCP/IP, SCP, SFTP, HTTP, NFS, GPFDIST, GPHDFS, etc.
* Hands on experience in installing and maintaining of Splunk on servers.
* Upgraded manufacturer recommended firmware for BIOS during annual kernel patching schedule
* Experienced working on virtualization using VMware ESX
* Implemented and configured Backup policies and Storage Units.
* Worked on Change Management and Disaster Recovery management
* Monitoring system resources, logs, disk usage, scheduling backups and restore.
* Configuring SUDO and granting root permission to users for performing certain activities.
* File system tuning, growing, and shrinking with Veritas File system 3.5/4. x.
* Worked on network connectivity, SAN storage, creating LVM and taking TSM backup.
* Installed Deployment & system configuration Automation JIRA, HPSA and Puppet server.
* Modifying user's password policies, group policy, UID and GID assignment policies.
* Regular backing up of critical data and restoring backed up data. Worked in solving tickets issued on day to day activities and problems related to development and test servers.
* Installed, configured and supported Apache, JBoss, Oracle 10g, and Clear case. Configuration of virtual hosts, plugins and SSL certificates on web servers and domains and deployments on application servers.
* Configuration of name services which includes DNS using Bind (Split DNS, ACLs), Sun Java System Directory Server and NIS.