**Bala Mahesh Turga**

**AWS/DevOps Engineer - Driscoll**

Watsonville, CA - Email Id : balamaheshturga@gmail.com

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• 7+ years of experience as a Devops/Build and Release Engineering in automating, building, deploying, and releasing of code from on environment to other environment.

• Experience of Jenkins, Apache Ant, Apache Tomcat, Subversion, Git, Maven.

• Experience in scripting languages Ruby, Shell and Python.

• Experience in development and configuration experience with software provisioning tools like Chef, Puppet and Ansible.

• Experience on Cloud automation using AWS Cloud Formation templates.

• Experience with migration to Amazon web Services AWS from Datacenter.

• Used chef for server provisioning and infrastructure automation in a SAAS environment.

• Written cookbooks for various packages and installed them on VMs to perform QA testing.

• Set up CI (Continuous Integration) for major releases in Jenkins and TeamCity.

• Experience in Jenkins to automate most of the build related tasks.

• Experience in Improving throughput and efficiency of build system by providing EO/managers rights to trigger required build.

• Experience in managing infrastructure resources in cloud architecture with close coordination with various functional teams

• Experience in NoSQL database MongoDB and Cassandra.

• Troubleshoot and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Setup and executed process to code review system effectively.

• Responsible for defining branching & merging strategy, checkin policies, improving code quality, automated

Gated Checkins, defining backup and archival plans

• Experience in managing other version control tools like GIT.

• Strong knowledge / experience in creating Jenkins CI pipelines

• Good experience in automating deployment pipelines.

• Trouble shoot issues along the CI/CD pipelines

• Excellent interpersonal skills, proven team player with an analytical bent to problem solving and delivering under high stress environment.

• Good analytical and communication skills and ability to work independently with minimal supervision and also perform as part of a team.

• Responsible for administration tasks relating to our software development/continuous integration stack of

Confluence, Jira, Stash, Jenkins, Sontatype, and Chef

• Writing Chef recipes to automate standing up new virtual instances or bare metal

• Maintain legacy bash scripts used to configure environments not yet converted to Chef.

• Maintain the company's Apache/Nginx webservers and weather data processing servers.

• Internal staff and customer-facing issue resolution

• Datacenter tasks such as new server installation, network cabling, and hardware troubleshooting

• Backup Database Administrator and Network Engineer

Willing to relocate: Anywhere

Authorized to work in the US for any employer

WORK EXPERIENCE

**DevOps Engineer/AWS**

Driscoll - Watsonville, CA - January 2015 to Present

Responsibilities:

\* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.

\* Used ANT and Python scripts to automate the Build and deployment process. Used maven for few modules.

\* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.

\* Created volumes and attach volumes on to EC2 instances.

\* Used Amazon S3 for multipart upload of data and to host static web content in AWS Cloud.

\* Created Stacks using Amazon CloudFormation templates to launch AWS Infrastructure and resources.

\* 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 Chef.

\* Knowledge in using of Ansible Tower as configuration management tool and GIT as SCM tool to automate the deployment of infrastructure and applications.

\* Monitoring each service deployment, and validating the services across all environments.

\* Automate large scale deployments with modern configuration and deployment management systems like

Chef and Ansible.

\* Deployed J2EE applications to Application servers in an Agile continuous integration environment and also automated the whole process. Build scripts using ANT and MAVEN build tools in Jenkins, Sonar to move from one environment to other environments.

\* Involved in build and deploying SCA modules in IBM Web sphere Process server.

\* Worked on Java/J2ee deployments in web sphere.

\* Prepared Migration logs for every release and maintained the data accuracy.

\* Maintained Defect Fix Deployments and documented the deployed files in the appropriate Environment

Migration log.

\* Working with ChangeOrder with current release and implement them in the Production.

\* Created Branches, Tags for each release and particular environments.

\* Merged the branches after the Code Freeze.

\* Performed system monitoring using Nagios and CloudWatch in AWS Cloud.

\* Created the Deployment notes along with the Local SCM team and released the Deployment instructions to Application Support.

Environment: Java/J2ee, Eclipse, AWS EC2, EBS, EBL, S3, Nagios, Chef, Ansible, Ant, Maven, Jenkins, GIT, Subversion, WebSphere Application Server (WAS), Apache, PERL, BASH, Unix, Python, Ruby.

**DevOps engineer**

CVS Pharmacy, Pittsburg - PA - April 2013 to December 2014

Responsibilities:

• Working for DevOps Platform team responsible for specialization areas related to Chef for Cloud Automation.

• Developed installer scripts using maven, Python and linux for various products to be hosted on Application

Servers.

• Troubleshoot Build and Deploy Issues, with little downtime.

• Organized and Co-ordinated Product Releases, work closely with product development, QA, Support across global locations to ensure successful releases

• Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts

• Worked on Managing the Private Cloud Environment using Chef.

• Implemented Chef Cookbooks for OS component configuration to keep AWS server's template minimal.

• Developed automation framework for Application Deployments to the cloud environments.

• Managed and optimize the Continuous Delivery tools like Jenkins.

• Installed, Configured, Administer Hudson/Jenkins Continuous Integration Tool.

• Automated Continuous Build and Deploy Scripts for Hudson/Jenkins Continuous Integration tool.

• Wrote ANT and MAVEN Scripts to automate the build process.

• Provided ANT build script for building and deploying the application.

• 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).

• Provided stable build environments for product development.

• Worked on NoSQL database Cassandra.

• Branching, Tagging, Release Activities on Version Control Tools: SVN, GIT.

• Developed Custom Scripts to monitor repositories, Server storage.

• Member of the Technical Design team, Build and Release Module for Development of new products.

• Automated the local dev environment using Vagrant/chef-solo.

• Automated the cloud deployments using chef, Python (boto & fabric) and AWS Cloud Formation Templates.

• Provided UNIX scripts for deploying and building the system.

• Document release metrics, software configuration process.

Environment: Java, Eclipse, Toad, Git, , Tomcat, Apache, Oracle 12c, Jenkins, Python, Ruby Chef, JIRA, Maven, Art factory, Ubuntu, CentOS, Linux, AWS , AWS Cloud Formation Templates, Cassandra, AWS RDS, AWS Cloud Watch, Ruby, Chef-solo/server

**Devops Engineer**

PlanetOne - Atlanta, GA - September 2011 to March 2013

Responsibilities:

• Responsible for LINUX, VMWare guests and hosts and LINUX Administration.

• Perform Infrastructure level application patching.

• Perform software installation, upgrades and patches, troubleshooting, and maintenance on LINUX, VMWare guests and hosts and LINUX servers.

• Worked on Vulnerability management principles, proper patch management and deployment.

• Resolved Incident Management Tickets escalated by lower levels of support.

• L2 and L3 level Help Desk Technician/Desktop Support.

• Improved manageability of Linux installations through consolidation of all Linux platforms to Red Hat Enterpise Linux, deployment of Zabbix and Red Hat Satellite Server for management and monitoring, and leveraging of Kickstart/PXE for rapid provisioning of new servers.

• File system management on various platforms. LVM configuration and maintenance.

• Responsible for all phases of software development for both small and large-scale projects, including requirements gathering/assessment, proposal, design(HLD & LLD), implementation, testing and long term support and system/server administration. Experience in creating, contributing and reviewing system design documents.

• Developed shell scripts to automate the cluster installation.

• Supported various Projects for install and configuration of application packages.

• Installed and configured Cloudera-Hadoop on the Linux Servers Also supported the Cloudera upgrades from

4.X to 5.X.

• Performed Network stack tuning for apache web servers.

• Configured the password less authentication for multiple user between different environment.

• Installing Unix LDAP Boks KEON security software for user administration on AIX, Linux and Solaris Servers.

• Configuration and management of ServiceGuard under HP-UX and "heartbeat" under Linux.

• HP-UX and Linux performance analysis and optimization.

• Involved in implementing High Availability and automatic failover infrastructure to overcome single point of failure for Name node utilizing zookeeper services.

• Environment build and deployment automation using VM Ware ESX, Docker containers, Vagrant, Puppet and Chef.

• Designed, configured and managed the backup and disaster recovery for HDFS data, commissioned data nodes when data grew and decommissioned when the hardware degraded

• HP-UX system setup, administration and upgrade. Installation of the usual suite of programs related to the

Internet connectivity (Sendmail, News-Server, setup of the name-server, etc).

Environment: VMWare, Red hat Enterprise Linux, Zabbix, Docker containers, Vagrant, Puppet, Chef, apache web server, Java, GIT.

**Linux Administrator**

SLK Technologies - Bangalore, Karnataka - April 2010 to August 2011

Responsibilities

\* Installation and configuring of SUN Solaris and Linux servers.

\* Involved in Building and configuring Solaris 8/9/10 using Jumpstart server and Red Hat Linux Servers using Kick Start server as required for the project. Maintained maximum uptime and maximum performance capacity for Enterprise Production, QA, and UAT/Staging.

\* Incident management for Unix Servers (Solaris, Linux).

\* Installed and configured Solaris 10 servers with Zones and containers with Sun ZFS.

\* Primary responsibility includes building and supporting Solaris/ Redhat Linux 3,4 servers.

\* Monitoring CPU, memory, iSCSI disks, disk controllers, physical disk, HW and SW RAID, multipath, file systems, network using the tools NAGIOS and BMC Tools.

\* Extensive experience in installing, integrating, tuning and troubleshooting Apache, Tomcat, WebSphere and

Weblogic application server.

\* Implemented SUDO, SSH and other security tools and implemented SOX (Sarbanes Oxley) security compliance.

\* Assisted in configuring the application servers with other components such as database, web servers, LDAP

directory, Active Directory, BEA Web logic etc.

\* Extensive use of Veritas Volume Manager for Disk management, file system management on Sun Solaris environment.

\* Created Zeta byte file system (ZFS) in Solaris 10. Created zpools. Exported ZFS from local zones to local zones.

\* Installation and configuration Veritas NetBackup on Sun Severs and performing Backup using Veritas Net

Backup.

\* Extensive use of Korn shell, Bash for scripting.

\* Expertise in Linux backup/restore with tar including disk partitioning and formatting.

\* Involved in Planning, building and Administration of various High Availability clusters and heart beat checking on Sun Solaris using VCS in heterogeneous SAN environment.

\* Regular disk management like adding / replacing hot swappable drives on existing servers/workstations, partitioning according to requirements, creating new file systems or growing existing one over the hard drives and managing file systems.

\* Planned, scheduled and Implemented OS patches on both Solaris & Linux boxes as a part of proactive maintenance.

\* Worked with other IT teams, customers (users), and other managers in helping build and implement systems and standards.

\* Involved in migration of projects from one flavor to another one.

\* Involved in development, user acceptance, and performance testing, production & disaster recovery server.

Environment: Solaris 8/9/10, Red Hat Linux 4/5, BMC Tools, NAGIOS, Veritas NetBackup, Korn Shell, Bash Scripting, Veritas Volume Manager, web servers, LDAP directory, Active Directory, BEA Web logic servers, AN Switches, Apache, Tomcat WebSphere, Weblogic application server.

**Software Engineer**

Systems Soft Technologies - IN - November 2008 to March 2010

Responsibilities:

• Part of a World class team whose primary goal is to implement Release/Build as a practice across the Organization covering around 30 projects.

• My Responsibilities include Searching, Learning, Training and Documenting on new DevOps tools which would fit in our current Eco-System.

 • Have done various POCs to explain and demonstrate the possibility of implementing CI/CD in various projects.

• Developed Jenkins Plugins which integrates our In-house tools with Jenkins.

• Implemented E2E pipeline in Jenkins which would do the below activities:

• Poll the SCM for new Commits. (SCM- TFS, SVN etc.)

• Build the code using build tools. (Maven, Ant, MSbuild etc.).

• Designed and implemented automation deployment using to promote major releases, monthly releases, and patches from Development -> Integration/QA -> Staging/UAT -> Production.

Environment: Jenkins, Maven, Ant, MSbuild, UAT, E2E, SCM, Java.

ADDITIONAL INFORMATION TECHNICAL SKILLS:

SCM Tools Subversion, Clear Case, GIT

Build/CI Tools ANT ,Maven Hudson, Jenkins,AnthillPro, Bamboo, Nexus, Sonar

DevOps Tools Chef, Puppet, Ansible

OpenStack Cloud Glance, Swit, Nova, Horizon, Neutron AWS Cloud EC2, S3, ELB, EBS and Cloud Watch Programming Languages Java/J2EE, PYTHON, RUBY Scripting Languages Unix Shell scripting, Python, Perl scripting Operating Systems Windows, UNIX, LINUX, Mac OS

Database Oracle 10g/9i, SQL Server, MySQL

Web/Application Servers Web logic, JBoss, WebSphere, Apache Tomcat

Bug Tracking Tools JIRA, Rally, Fisheye, Crucible, Remedy and IBM Clear Quest.