

**Rajashekar Ailoni**

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**Professional Summary**

* Around 9 years of Experience in IT industry with a profile of **DevOps Engineer**, **Build & release Management**, **Source Code & Configuration management**, and **System Administration**, working on various platforms including **Red Hat Enterprise**, **Cent** **OS**, Ubuntu in Linux and on **Windows** and MacOS platforms.
* Adept in Setup and building **AWS** infrastructure using various resources like **VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling and RDS** in Cloud Formation JSON templates.
* Creating **Cloud Watch** alerts for instances and using them in **Auto Scaling** launch configurations.
* Backing up the instances by taking **snapshots** of the required servers regularly.
* Setting up and administering **DNS** system in **AWS** using **Route53**.
* Hands on experience with **Chef** and **AWS** cloud environment.
* Managed Linux and Windows virtual servers on EC2 using **Chef** Server and Familiar with Cloud watch, Elastic IP's and managing security groups for EC2 Servers. Hands on experience with the **AWS CLI** and **SDKs/ API** tools.
* Automated highly scalable, consistent, repeatable infrastructure using high degree of automation using **Chef**, **Jenkins**, and **AWS cloud Formation**.
* Developed **Chef Cookbooks** and **Recipes** to manage systems configuration.
* Working knowledge of **Ansible** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications.
* Designed, Installed and Implemented **Ansible** configuration management system.
* Experience in creating inventory, job templates and scheduling jobs using **Ansible**.
* Dexterity in Branching, Merging, Tagging and maintaining the version across the environments using **SCM** tools like **Subversion (SVN)**, **GIT (GitHub, GitLab)**.
* Expertise in **Continuous** **Integration** Tools like **Jenkins, Bamboo** andempowering teams to implement [**Continuous** **Delivery**](https://en.wikipedia.org/wiki/Continuous_Delivery).
* Proven expertise in using **ANT and MAVEN** as build tools for the building of deployable **artifacts** from source code.
* Proficient in **Building**, **Release** automation framework designing, **Continuous** **Integration** and **Continuous** **Delivery**, **Release** **planning**, procedures, scripting **automation**. Expert in documenting and implementing procedures related to build deployment and release.
* Worked on **Artifactory** and **Sonatype Nexus** to manage the build **artifacts**.
* Worked on Code Quality Control tools like **Sonar, HP Fortify** and testing tools like **Selenium, Cucumber** and dealt with testing frameworks like **JUNIT**, **Cobertura, Jacoco.**
* Expert level know-how about multiple Scripting languages like **Bash, Python, Ruby.**
* Worked with the **Development** and **Quality Assurance** teams to provide flexibility in the various lower environments to support multiple simultaneous projects.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile** and **Waterfall** methodologies.
* Experience in **Bug** **Tracking**, Project Management tools like **JIRA, ClearQuest** and HP Quality Center.
* Worked on **Docker** hub, writing **Docker files**, Building Docker images and handling multiple images primarily for middleware installations and domain configurations.
* Experience with application servers like **Apache tomcat,** **WebLogic**, **WebSphere** etc.
* Hands-on experience in database management systems like **MySQL**, **MongoDB**, **Cassandra.**

**Technical Skillset:**

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| SCM Tools | Git, SVN, Perforce. |
| Bug tracking Tools | Atlassian JIRA, REMEDY. |
| Continuous Integration | Jenkins, Teamcity. |
| Cloud Providers | AWS, Azure. |
| Scripting | Shell, Python, Ruby |
| Build Tools | Ant, Maven, Gradle |
| Databases | MS SQL, Oracle, MongoDB |
| Servers | Web (Tomcat Apache), Weblogic, Websphere, Jboss |
| Programming Languages | Python, Java. |
| Configuration Management Tools | Chef, Puppet, Ansible |
| Operating systems | Linux, Unix, Windows, Mac OS. |

**Chronological Work Experience:**

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| **Role: Sr. DevOps Engineer                                                                        Aug 2016 to Present**  **Client: GE Oil and Gas.**  **Location:** **New Orleans, LA**. |

**Responsibilities:**

* Expert in Iaas, SaaS, in AWS (VPC, IAM, SES, SNS, EC2), **Autoscaling**, **Cloudformation**, **CloudTrail**, **DynamoDB**, **S3**, **API** Gateway, Lambda, etc.
* Analyze **AWS** based product for defects, and enhance automated testing to prevent regression.
* Optimized database **AWS** schemas and provided consultation to various service teams for query performance improvements.
* Automated **AWS** deployment using **Cloud Formation** and **chef**.
* Played an active role in **Chef** configuration management, and application deployment and Automated Cloud Provisioning.
* Managed **AWS EC2** instances utilizing Auto Scaling, **Elastic Load Balancing** and Glacier for our QA and UAT environments.
* Managed On-site Applications/Services/ Packages using **Chef Cookbooks**.
* Worked on **Chef** in Production environment and using Git, **Maven** to create **artifacts** from source code and deploy them in **Nexus** repository for internal deployments.
* Configured **GIT** with **Jenkins** and schedule jobs using Poll SCM/Webhooks .
* Working with development team to migrate **Ant** scripts to **Maven**.
* Created builds using Shell Scripts, **ANT/Maven** scripts for both manual and automated builds.
* Setting up the build and deployment automation for Java based project by using **Jenkins, Git and Maven.**
* Hands-on experience in deploying **Jenkins** servers into production and non-production environments. Involved in environment setting, Configuration and troubleshooting, preparation on disaster recovery plans, for Jenkins.
* Capitalized **LogStash**, **Splunk** for Monitoring.
* Hands on in Scripting Tools - **Ruby** as Chef DSL and Shell Scripting and on monitoring tools - **NAGIOS, Splunk**.
* Configured and integrated the servers for different environments to automatically provision and configuration management of Linux instances using CM/ Provisioning tool Chef.
* **Troubleshooting** deployment and installation issues and expertise in **Nexus**.
* Monitoring the servers and Linux scripts regularly and performed troubleshooting tested and installed the latest software on server for end-users.
* Generation and Maintenance of the Project SCM plan as per CMMI standard level and use of containers like **Docker**.
* Worked on container orchestration tool **Kubernetes** to manage clusters and pods in testing environment.
* Ensure servers and environments are available for developments and testing validation is meeting the expectation.
* Assist Clients to understand issues and help/coordinate with multiple teams to resolve issues and make the environment stable.
* On-call Production Support (24x7) on weekly rotation within the team.

**Environment:** GIT, Ant, Maven, Tomcat, Jenkins, WebSphere, Weblogic, IBM Urbancode, AWS, Chef, Docker, Kubernetes, Java, SVN, Stash, VMware, VirtualBox, Linux, JBOSS, Shell, Nexus, Nagios.

**Role: DevOps Engineer Nov 2014 to July 2016 Client: American International Group Inc.**

**Location: Fremont, CA.**

**Responsibilities:**

* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services.**
* Set up the scripts for creation of new **snapshots** and deletion of old snapshots in **S3.**
* Worked with Amazon **IAM** console to create custom users and groups.
* Worked with various **AWS EC2** and **S3 CLI, EBS, CloudWatch** tools.
* Extensively worked with distributed version control system **GIT**.
* Responsible for building/deploying consistently repeatable build/deployments to company production and non-production environments using **Bamboo**.
* Worked with the development team to generate deployment profiles (**jar**, **war**, **ear**) using **Ant** **Scripts** and **Bamboo**.
* Worked on **Gerrit** Plugins and involved in setting up the environment for versioning using **Git** and created **automation** of build and package using **Jenkins** and **Maven.**
* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Deployed **J2EE** applications to Application servers in an **Agile** continuous integration environment and automated the whole process and migrated from **Maven** to **Gradle** build tools in Jenkins to move from one environment to other environments.
* Used Maven dependency management system to deploy snapshot and release artefacts to **Artifactory** to share artefacts across projects.
* Implemented **CI**/**CD** Automation Process using various CI Tool **Bamboo** CD Tool **Docker**.
* Worked on Open Source Databases like **PostgreSQL.**
* Worked on **Artifactory** to upload/download the build **artifacts**.
* Responsible for Administering **Artifactory** server which includes install, upgrade, maintenance of repositories, performance tuning, troubleshooting issues and maintenance.
* Implemented **Chef** to deploy the builds for **Dev**, **QA** and **Production**.
* Automation of infrastructure by creating scripts of **Chef**.
* Developed **Chef** **Cookbooks** to install and configure **Apache Tomcat**, **Jenkins**, and **Rundeck** and deployment automation.
* Created release pipelines using **GIT**, **Chef** for automatic workflow.
* Project also involves in migrating an On-Premises infrastructure set up to **Openstack** that involves, creation of automation scripts and integrating with **continuous** **integration** channel using **Rundeck**.
* Excellent knowledge in Website Hosting and maintaining the dedicated server in **Openstack**.
* Application Deployments & Environment configuration using **Chef**, **Ansible**.
* Hands-on experience on **Ansible** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications.
* Designed, Installed and Implemented **Ansible** configuration management system.
* Experience in creating inventory, job templates and scheduling jobs using **Ansible**.
* Experienced in Administrating, troubleshooting, configuring and deploying enterprise applications in **Web** **Sphere**, **Web** **Logic** and **Apache**-**Tomcat**.
* Creating, managing and performing container based deployments using **Docker** images containing Middleware and Applications together.
* Conducted **POCs** with **Docker** based applications server configurations in **Amazon** **Web** **Services** **Cloud**.
* Worked with the **Docker** to package an application with all its dependencies into a standardized unit for Software Development.
* Responsible of **installing**, **updating**, diagnosing and **troubleshooting** the issue tracking and project management application, learning agile methodology by **JIRA**.
* Created and configured new **JIRA** projects and worked with departments to maintain existing **JIRA** projects.
* Configured Workflows created new Jobs and modified existing projects to automate.
* Established processes and tools to maintain code base integrity, including check-in validation rules and branch/merge processes.

**Environment and Tools**: GIT, Gerrit, GitHub, Bamboo, Maven, Gradle, Artifactory, Rundeck, Chef, Ansible, Openstack, Docker Atlas, JIRA, Stash, Subversion, Python, ClearCase, Shell, Linux, ANT, HP Codar, JUnit, Hudson, WebSphere Application, Tomcat, Oracle, MS SQL Server, Java, J2EE.

**Role: Build and Release Engineer Nov 2013 to Oct 2014 Client: Global Software Inc.**

**Location: Raleigh, NC.**

**Responsibilities:**

* Creation of Release Plan, Definition, collection, analysis & presentation of Release Project Metrics on weekly basis.
* Working with Infra development team as DevOps Engineer for Server level automation and infra development.
* Expertise in Working with **Jenkins** using numerous Plugins and Automated Build processes.
* Experience of working with the release and deployment of large-scale **Java**/**J2EE** Web applications using **SVN** repository.
* Maintained build related scripts developed in **ANT**, **Python** and **shell**. Modified build configuration files.
* Developed and maintained **UNIX**, **Perl**, **ANT** scripts for **Java**/**J2EE** build and release tasks.
* Built a strong **PERL** script, which would call the required **ANT** scripts and notify the build distribution team in case of Build errors or Completion of the builds.
* Experienced in performing releases with the **Maven** release **plugin**.
* Created and maintained the **Shell**/**Perl** deployment scripts (**Java**/**J2EE** projects) for **WebLogic** and **UNIX** servers.
* Experience in using **Jenkins** for Continuous Integration and strong in handling multiple Applications using **Jenkins.**
* Used maven profiles to create different builds so that it can be released early and released often agile/extreme programming.
* Coordinate release activities with **Project** **Management**, **QA**, **Release** **Management** and **Web** **Development** teams to ensure a smooth and trouble-free roll out of releases.
* Working on the source code to generate builds and create procedures for the deployment on the servers for the release.
* Setting up the **automation** environment for Application team if necessary, and help them through the process of **build** and **release** automation.
* Documented project's software release management procedures with input decisions.
* Identifying Cross Functional Dependencies, Monitoring & tracking the release milestones.
* Performing **Risk** **Analysis**, preparing **Mitigation** Strategies & **Contingency** Plans.
* Coordinating Release effort amongst various teams (Development, QA, Testing, and Business Analysis) in geographically separated environment.
* Developed, maintained, and distributed release media and release notes for each scheduled release.
* Presenting Project’s weekly status to Senior Management during Weekly Status Meetings.
* Key Member of **CCB** (**Change** **Control** **Board**) in case of change in defined scope of the release (Change in requirements).
* Involved in developing server-side code using **ASP.Net, VB.NET and C#.**

**Environment & Tools:** ANT/MAVEN, Perforce, Python 2.6, Linux, Oracle, MS SQL Server, WebLogic, Stash, WebSphere, Remedy, Tomcat, Subversion, shell Solaris, Perl Scripting, Shell Scripting, Jenkins.

**Role: Build Engineer Aug 2011 to Oct 2013**

**Client: Speck Systems Limited, Hyderabad, India**

**Responsibilities:**

* Involved in user interactions, requirement analysis and design for the interfaces.
* Prepared the design document for Document Management Module and User Management Module.
* Created class diagrams and sequence diagrams using **MS** **Visio**.
* Followed waterfall methodology for application development.
* Updating the **SVN** log properties for revisions. Setting up the **SVN** **sync** servers, changed rev properties for **SVN** **sync**.
* Promoting the changes from **trunk** revisions to **release** **branch**.
* Performed merging from development to parent branches prior to building the code.
* Setup the build and deployment scripts using **Anthillpro** for **J2EE** and **Java** applications using **WebLogic** **Application** **Server.**
* Installed and configured **Subversion** server on **Linux** via the **Apache** **Web** **Server** to provide access over the Http protocol.
* Extensively used **Ant**, **Maven**, **Perl** and **Bash** Scripts for automating **build** and **release** tasks.
* Implemented **Shell** and **Perl** scripts for release and build automation. Manipulated and automated scripts to suit requirement.
* Proficient in deploying and support applications on **WebSphere**, **Tomcat**, **WebLogic** application servers
* Used Shell/Perl scripts to automate the deployment process.
* Proposed and implemented branching strategy suitable for agile development in Subversion.
* Maintained existing programs/scripts and extended Linux system functionality as needed.
* Involved in enhancement of SOA web services using AXIS to support .net applications.
* Involved in development of custom tag libraries, which provides various functionalities like check-in, checkout, export, import, open, delete, search etc. on JSP pages.
* Involved in development of customized Web applications on top of Orion Frameworks using Web technologies like **JSP**, **Servlets**, and Java **script**.
* Written Oracle Admin schema using **SQL**, which creates Orion Oracle database instances in **Oracle** **10g** and **Oracle9i**.
* Involved in migration of code in CORBA framework to **Java**/**J2ee** framework.
* Worked with Development Team Leads and testing teams to establish a build schedule, execute the builds and troubleshoot build failures, if any.

**Environment & Tools:** SVN, Ant, Oracle, Linux, Perl Scripting, ClearCase, Sonar, CAST, Shell scripting, JBOSS, Windows, UNIX, Web logic.

**Role: Linux Administrator Aug 2008 to June 2011**

**Client: GGK Technologies, Hyderabad, India**

**Responsibilities:**

* Was a part in Installation, configuration and maintenance activities in of **Red Hat**, **CentOS, SUSE**, and **Solaris** servers at multiple data centers.
* Maintained configuration files for each application for build purpose and also installed on different environments.
* Configured logical volumes using logical volume manager (LVM), involved in monitoring and troubleshooting.
* Involved in daily system administrator activities (performance monitoring & tuning, disk space issues, send mail issues, tools related issues, **FTP**, **Telnet** and application oriented issues).
* Used **SVN** for branching, tagging, and merging.
* Efficient in writing implementation plans for installing software components on build agents, also worked with application services team to execute the same.
* Supported QA regression deployments, monthly and weekly releases of applications.
* Performed Patching and upgrades (release), on stand-alone servers (using single user mode), and live upgrade of servers in production using YUM Update/RPM Manager from repository or Red hat subscription management service.
* Working knowledge of Windows batch scripting, **LINUX Shell** scripting and ANT Scripting.
* Hands on in Installing Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Built and Deployed java source code into application servers in an Agile continuous integration environment.
* Involved in Activities including user administration, startup and shutdown scripts, crontabs, file system maintenance backup scripting and automation using **SHELL** scripting (BASH, KSH) for **Red Hat Linux systems**.
* Coordinated application release with **Development,** **DBA**, **QA** and project management teams.
* Automated the deployment and server bounce for JBoss Applications.
* Directed the Release Management Calls to synchronize with the **Developers**, **Testers** and **DBA** teams for successful Release.
* Worked closely with the team to review code for compatibility issues, resolve issues as they arise, and implement deployment processes and improvements on a continuous basis.

**Environment**: ANT, Build Forge, WebLogic, UNIX, Linux, Shell, Perl Scripting, JIRA.

**Education:**

**Bachelor of Technology in Computer Science Engineering from JNTU, Hyderabad, INDIA.**