**GOWTHAM**

**Sr. Devops Engineer | (603) 943-6164 | als.gowthamkumar@gmail.com**

**Career Summary**

* **9+** **years** of **IT** experience in **Devops Engineer**, **Build and Release** management involving extensive work towards code compilation, packaging, building, and debugging, automating, managing, and deploying code across multiple environments.
* Experience as **Middleware Engineer** with administration of Middleware components such as **Tomcat**, **JBoss, Oracle Web Logic, IBM Web Sphere, and Apache Web Server**.
* In-depth understanding of the principles and best practices of **Software Configuration Management** (SCM) in **Agile, SCRUM,** and **Waterfall** **methodologies**.
* Experience in working on version control systems like **GIT**, **Subversion**, and used Source code management client tools like **Git Bash**, **GitHub**, **Git GUI** and other command line applications etc.
* Extensive experience using **MAVEN**, **ANT** and **Xcode** as build tools for the building of deployable artifacts from source code.
* Expert in implementing continuous integration and deployment pipelines using **Jenkins**, **Maven**, **Nexus**, **Octopus**, **Ansible** and **Rundeck**.
* Experienced in **Querying RDBMS** such as **Oracle**, **MY SQL** and **SQL Server** by using **SQL**.
* Experience in managing multiple environments like **DEV**, **QA**, **UAT** and **PROD** for various releases and designed instance strategies.
* Extremely knowledge about **CI/CIT/CID** integration.
* Established **Chef** Best practices approaches to systems deployment with tools such as **Vagrant**, **Berkshelf** and **Test-Kitchen** and the treatment of each **Chef Cookbook** as a unit of software deployment, independently version controlled.
* Experienced in **Writing Chef Recipes** to automate our build/deployment process and do an overall process improvement to any manual processes.
* Managed **Ubuntu Linux** and **Windows virtual servers** (Rackspace and AWS EC2) with **Chef** using **Git**.
* Extensively worked on **Jenkins** and **Anthill** **Pro** for **continuous integration** (CI) and for **End to End** automation for all **build** and **deployments**.
* Experience in **Deploying JBoss**, **Apache Tomcat web server**, **IIS Server**, **Oracle web logic**, and **IBM Web Sphere**.
* Experience in working with **Tracking Tools** like **JIRA**, **Red Mine**, and **Bugzilla.**
* Knowledge of using **Routed Protocols**: **FTP, SFTP, SSH, HTTP, HTTPS** and **Connect direct**.
* Having work experience in support of multi platforms like **UNIX, Ubuntu**, **RHEL, Fedora, iOS** and **Windows 98/NT/XP/Vista/7/8** of production, test and development servers.
* Extensive knowledge of **Splunk** Installation, indexers, forwarder, search leads, clusters.
* Involved in driving & managing technology evaluation and integration of add ons for **Splunk**
* Knowledge of designing and implementing cloud based solutions, including private, community, hybrid and public cloud deployment models.
* Developed **architectural standards, engineering standards,** and **precision engagement plans** to accelerate engineering **migrations** to **AWS** and **Azure.**
* Managed **deployments** over various **IaaS** providers like **AWS, Azure and Oracle** cloud.
* Knowledge on **Deploying Couch base**, **Tomcat and Elastic** search clusters using **Docker**.
* Midlevel expertise in **Ruby**, **PERL** **CGI**, **Web** **development** and basics in **SQL** and **Python**.
* Understanding of Web Services and API development **SOAP** and **REST**.

**Amazon Web Services (AWS)**

* 5+ years of experience on cloud solutions using **AWS**.
* Proficient in using Amazon web services like **EC2**, **S3**, **IAM**, **EBS**, **ELB**, **RDS**, **VPC**, **Route** **53**, **Cloud** **Watch**, **Cloud** **Formation** etc.
* Experience in creating fault tolerant infrastructure using RDS multi zone fail over, creating multiple DB read replicas.
* Good knowledge in creating and managing enterprise standard **VPC**’s, subnets, **security** **groups** and network infrastructure like **Direct Connect**, **Route 53** and **NAT**, **bastion** **hosts.**
* Experience in migrating **On-Premise Data Centre** to **AWS** cloud infrastructure.
* Expert in creating **S3** buckets and managed policies for **S3** buckets and used **S3** bucket and **Glacier** for storage and backup on **AWS** using lifecycle policies.
* Good exposure in creating and managing Infrastructure as code using **AWS Cloud Formation** templates, **Chef Cookbooks.**

**Technical Skills**

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| --- | --- |
| **Programming Languages** | Python, PERL, C, C++, JAVA |
| **Virtualization and Cloud Environments** | VMWare, Virtual box, Vagrant, Amazon Web Services (AWS), Azure |
| **Versioning Tools** | GIT, SVN, CVS, Clearcase, Perforce, TFS |
| **Continuous Integration Tools** | Jenkins, Bamboo, TeamCity, Docker, BuildForge, Octopus |
| **Configuration management Tools** | Chef, Puppet, Ansible and Terraform |
| **Build Tools** | Maven, ANT, Team City |
| **Operating Systems** | RedHat Linux, Ubuntu, CentOS, iOS, Windows |
| **Networking & Protocols** | TCP/IP, Telnet, SSH, HTTP, HTTPS, FTP, SNMP, LDAP, DNS, DHCP |
| **Project Management/Issue Tracking Tools** | JIRA, Remedy Confluence, BugZilla, Nagios. |
| **Scripting Languages** | Perl, Shell scripting, Ruby, Python, Power Shell |
| **Services** | HTML, XML/SOAP, Web Services |
| |  |  | | --- | --- | | **RDBMS** |  | | Oracle 8i/9i/10g, DB2, MongoDB, Cassandra, SQL server, MySQL 5.x, PostgreSQL |
| **Application Servers** | Oracle WebLogic 11g, WebSphere 7.x, Apache Tomcat 7.x, Apache 2.x, Jboss |

**Professional Experience**

**Express Scripts, Franklin Lakes, NJ 01/2015 – present**

*Sr. DevOps Engineer*

**Responsibilities:**

* Involved in migrating physical **Linux/Windows** servers to **cloud** (**AWS**) and testing the whole process.
* Designed an Architectural Diagram for different applications before migrating into **Amazon** cloud for flexible, cost-effective, reliable, scalable, high-performance and secured.
* Built servers using **AWS**: Importing volumes, launching **EC2**, **RDS**, creating security groups, auto-scaling, load balancers (**ELBs**) in the defined virtual private cloud.
* Automating backups by shell for **Linux** to transfer data in **S3** bucket.
* Built **Chef** Development workflow and best practices around configuration management as well as building a strong and diverse internal **Chef** community.
* Managing a production infrastructure on **AWS VPC** utilizing **S3**, **ECS**, **Cloud Formation**, including **Auto Scaling**.
* Creating alarms in **Cloudwatch** service for **monitoring** the servers performance, CPU Utilization, disk usage etc.
* Modeling data and deciding application paradigms using **Postgre SQL** and **No SQL**.
* Maintaining the user accounts (**IAM**), **RDS**, **Route 53**, **SES** and **SNS** services in **AWS** cloud.
* **Operational reporting** (**SLA** reporting, SLA metrics).
* Deployment and monitoring of new **Dockerized** infrastructure.
* On-call support for **trouble shooting production** **issues**.
* **Installation, configuration, and administration** of **Linux** (RedHat/SUSE, Centos).
* Setting up Linux servers **JBoss**, **Apache**, **JDK 1.8**, **Bamboo**, **JIRA** and **GIT**.
* Developing **Docker** images to support Development and Testing teams and their pipelines.
* Planning and gathering the requirements for setting up **TFS** environments for environment based migration and up gradation.
* Used **TFS** command line and **Shell** for automation.
* Configuring network services such as **DNS/NFS/NIS/NTP** for **UNIX/Linux** Servers.
* Setting up **UNIX/Linux** environments for various applications.
* Planned, implemented and managed **Splunk** monitoring and reporting infrastructure.
* Improved **monitoring** with **Nagios** and custom plug-ins.
* Deploy to test server automatically from **TeamCity** regularly.
* Creating change requests, issues and problem tickets using **JIRA** tool and getting approvals from higher management.
* Scripted **Linux** repository database comparisons using **Python**.
* Established **Continuous Integration** (**CI**) practices and standards with **Jenkins, Bamboo** and **JIRA.**
* **Design**, **develop** and **maintain** automated solutions/processes that enable the **continuous** **delivery** of improvements to the software applications/platforms.
* **Automated** the front-ends platform into highly scalable, consistent, repeatable infrastructure using high degree of automation using **Chef**, **Vagrant**, **Bamboo**, and **Cloud Formation.**
* Automating in **Azure** for creation of subscription, Storage Account and tables using Windows **PowerShell.**
* Set up monitoringin **Nagios** via **Chef.**
* Added monitoring checks for critical failure points with **DataDog** and **AWS Lambda.**
* Deployed **Azure** **IaaS virtual machines** (**VMs**) and **Cloud services** (**PaaS** role instances) into secure **Azure Virtual Networks** and subnets.
* Migrated **SQL Server** database to Windows **Azure** SQL database and updated Connection Strings.
* Responsible for the availability, security, access, backup, and performance of the cloud architecture.
* Developed reference architectures based on Microsoft Packaged Applications to demonstrate how they can be leveraged in a **Hybrid Cloud** model.
* Designed and built a continuous integration and deployment framework for **Chef Code** using test driven development.
* Perform systems monitoring, troubleshoot issues and correct problems with the infrastructure to meet up time and performance requirements.

**Environment:** AWS Cloud, RedHat Linux 7.x, AIX and Windows, Jira, Azure, Chef, Terraform, Shell, Python, PowerShell, Web Logic Server 11g, IBM WebSphere, F5 BIG-IP Load Balancers, Apache Tomcat 7.x, Docker, Configured plug- ins for Apache HTTP server 2.4, Nginx, Active Directory, LDAP, Splunk, Nagios, JDK1.7, XML, Oracle 11g, TFS, SVN, TeamCity, GitHub.

**United Health Group, Hartford, CT 06/2013 – 01/2015**

*Sr. Build and Release Engineer/ Sr. Devops Engineer*

**Responsibilities:**

* Developed and maintained **Ant/Maven** scripts for build and release tasks.
* Responsible for analyzing and converting **Ant** projects into **Maven** projects.
* Participated in troubleshooting build for **java** errors due to vast exposure to **J2EE**.
* Produce documentation of **CM** plans and other project related artifacts.
* Develop and enhance the automated configuration management system.
* Configured **CI** tool for the automatic deployment of **WAR** or **EAR** files to required servers, including the shutting down of clusters, domains and services for a clean deployment and startup of new build.
* Configure/write build scripts, automate build, use continuous build server **TeamCity**.
* Worked closely with developers to define and configure application servers, virtual hosts, web applications, web resources, back-end resources as well as deployment of **EJB**s across multiple instances of **WebSphere**.
* Use of Windows PowerShell
* scripts to bring up the resources i.e. VM’s, Installation of dependent software’s in it, and run up the orchestrated environment.
* Providing on-going support and administration for **SVN** and **MAVEN** build automation.
* Configured **GIT** (Stash) tool as the source code repositories for all projects and **Nexus** for all builds release repository.
* **Dockerized** pipeline processing/monitoring.
* Implemented **CI** with **Nexus** for all builds **ipa/apk/sdketc** zipped files storage, i.e. **CI/CD** process.
* Set up **Nagios** to use escalation and email paging triggers.
* Work with solution architects around Devops integrations with Puppet and Chef to allow automated and orchestrated deploys to **Hybrid Cloud** model
* Design and implementation of software applications **build**, **QA**, **configuration**, **release**, and **automated deployment** activities.
* Enabled **IPv6** for **vRealize Automation Entitlements**/**Blueprints**/**IaaS** Components.
* Worked with performance testing team to run **JBoss** **Messaging** and **JBoss** **side**-**by**-**side**.
* Used **UNIX** scripts to **automate** administration tasks on **WebSphere**.
* Designed and implemented CM requirements, approach and tooling for **J2EE** and **.NET** based application developments.
* Created **S3** backups versioning enable and moved objects to **Amazon Glacier** for archiving purpose.
* Configured **Security** groups for **EC2** Windows and Linux instances and also **Puppet** **Master** and **Puppet Agent**.
* Configured **Elastic Load Balancers** with **EC2** auto scaling groups.
* Integrated **Splunk** with a wide variety of legacy data resources and commercial **security** tools that use various **protocols**.
* Designed and built data collection system using **AWS** server less architecture with **Kinesis** and **Lambda** to handle realtime processing of numerous events daily.
* Installed and configured **JBoss** **4.2/5.0** on different environments like **Dev, Test, QA** and **Production**.
* Work closely with other engineering and technical teams to provide **operational support** for **new and existing software**.
* Developed, maintained and enhanced **build and release management** scripts in **Ant** for **J2EE**.
* Design and scripting of **xml build** files (for **J2EE** build with ant compiler) and providing **technical** **support** to development team for compilation problems.
* Deploying **J2EE** application **EAR** to Testing and Production environment using **WebSphere**.
* Configured **Jenkins** to send out various kinds of build related notifications including email and **IDE**.
* Setup **Continuous Deployment** for the various test environments utilizing **Jenkins**.
* Created and maintained various kinds of **documentation** related to the **CM** process using **Confluence**.
* Identify the manual processes/activities and inefficiencies, address them using variety of **automation** **scripts**/solutions and **automated configuration management**.
* Set up continuous deployment to **Tomcat** using **Jenkins**.
* Troubleshoot customer’s custom code running in **Docker** containers.
* Automate deployment and release distribution process with **Shell**, **Perl** and **Cruise Control**.

**Environment:** AWS, Ant, Nexus, Maven, Jenkins, Cruise Control, GIT, Lambda, Kinesis, SVN, Java, PowerShell, Perl, Shell Scripting, .NET, Java, Apache, Tomcat, Docker, Unix/Linux, Teamcity, Splunk, Nagios, JBoss, WebSphere.

**Germania Insurance, Brenham, TX 02/2012 – 05/2013**

*Build and Release Engineer*

**Responsibilities:**

* Provided **CM** and Build support for more than 5 different applications, built and deployed to the production and lower environment.
* Defined and Implemented **CM** and Release Management Processes, Policies and Procedures.
* Implement, maintain and support reliable, timely and reproducible builds for project teams.
* Maintained build related scripts developed in **ANT**, **Python** and **shell**. Modified build configuration files including Ant’s build.xml.
* Worked with development team to migrate **Ant scripts** to **Maven**.
* Experienced in authoring pom.xml files, performing releases with the **Maven** release plug in, Modernization of **Java projects** and managing **Maven** repositories.
* Researched and implemented code coverage and unit test plug-ins with **Maven/Bamboo**.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects.
* Design, implement, support and deploy .**NET** applications to server.
* Created and wrote **Shell scripts**, **Python** **and PowerShell** for setting up baseline, branching, merging and automation process across the environments using **SCM** tools like **GIT, SVN** on Linux and windows platforms.
* Configured and maintained **Bamboo** to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds.
* **Build** and **deployed** **Java/J2EE** to a **web application server** in an **agile** continuous integration environment and also automated the whole process.
* Develop release management and build/deploy strategy and process for **.NET** and **JAVA** applications including **UNIX scripts, ANT scripts** for automationof release/builds.
* **Configured application servers (JBoss)** to deploy the code.
* Worked with **JIRA** for **issue reporting, status,** and **activity planning.**
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Worked on the **Oracle** databases in the backend to execute the **DML**s and **DDL**s.
* Own full **lifecycle** of **build** **system** - from analysis, development, implementation and support of builds, unit testing and deployments.

**Environment:** Ant, Java/J2EE, .NET JIRA, Maven, Bamboo, Linux, PowerShell, Solaris, Python, WebSphere, Jboss, Shell scripting, Nexus, SVN, GIT, Unix/Linux and Windows.

**Farmer’s Insurance, Los Angeles, CA 06/2011 – 01/2012**

*Build and Release Engineer*

**Responsibilities:**

* Performed builds on Java projects using **ANT** and **MAVEN** as build tools.
* Regular builds are initiated using the continuous integration tool like **Jenkins**.
* Configured **Jenkins** for doing the build in all the non-production and production environments.
* Implemented **MAVEN** builds to automate artifacts like jar, war and ear.
* Experience in managing source control systems **GIT** and **SVN**.
* Designing, creating, and maintaining **GIT** repositories to client specifications.
* Used Sub models in **GIT** and educated users working with sub models in **GIT.**
* Installation, configuration, and management of **Apache Tomcat** servers.
* Able to use **Chef** and other configuration management tools to deploy consistent infrastructure code across multiple environments.
* Experience with **Amazon Web Services** (AWS) and virtualization based technologies.
* Worked on creating the Amazon Web Services**EC2** Instances and security groups.
* Developed and maintained integration and release processes.
* Working experience on **Scrum** methodology.
* Coordinated with all the teams before and after the **production deployments** for the smooth production releases.
* Provided the **assistance** for the smooth phase of release for the emergency releases and coordinated with different teams.
* Created a complete release process **documentation**, which explains all the steps involved in the release process.

**Environment:** AWS, ANT, MAVEN, Apache & Tomcat, shell scripting, Java, SVN, GIT, Chef, Jenkins, Windows 2000/XP, LINUX (RHEL 4/5).

**TD Ameritrade, Manchester, NH 10/2009 – 05/2011**

*Build /Release Engineer*

**Responsibilities:**

* Setup **Jenkins** Build server and maintenance.
* **Apache-tomcat Web Server Configuration** and **Management**.
* **Version** **Control** using **Git** branching and merging repositories.
* Created **repositories** according to structure required with **branches**, **tags** and **trunks**.
* Managing Build Process using **Jenkins Server**.
* Implemented a Continuous Int­­­­egration process using **shell scripts**.
* Created deployment tickets using **JIRA** for build deployment in Production.
* Installed, configured and maintained **ClearCase** for **SCM** and Issue tracking.
* Worked closely with **developers** and managers to resolve the issues that rose during the deployments to different environments.
* Manage Releases, including coordinating with the **Dev** team and **QA** team.
* Maintained build **system** and **automated** build process for different application.
* Deployed **Java Enterprise** applications to **Apache Web Server, JBoss** Application server.
* Used **Oracle** to connect to various **databases** and to check the invalid objects after and before release.
* **Developed**, maintained and distributed release notes for each scheduled release

**Environment:** Tomcat, Apache, Oracle, Jenkins, Python, Ruby Chef, JIRA, Maven, Nexus, GIT, SVN, Ubuntu, CentOS, Ruby, Chef, Windows, Linux.

**Bluepal, Hyderabad, India 05/2008 – 09/2009**

*Build and SCM Engineer*

**Responsibilities:**

* Involved in migrating application source code from existing **CVS** to new **RTC SCM**.
* Administrating the **Rational Team Concert** tool and customizing the work flows, process configuration for team and project areas.
* Part of **ClearCase** support team responsible for creating new users, assigning them to the respective teams and user’s maintenance.
* Setup and **debug** hardware related issues for **server** **builds**.
* Resolved development conflicts between developer code commits.
* Performed weekly build cycle and **testing** **processes**.
* Coordinated with **developers**, **Business** **Analyst** and **Mangers** to make sure that **code** is **deployed** in the **Production** environment.
* **Supporting** the development team in using new tools and workflows.
* Preparing and **presentations** educating the users on new tool usage.

**Environment:** CVS, RTC SCM, ClearCase, SQL, Oracle, Windows and UNIX.

**Education**

**Bachelor of Technology 2008**

Jawaharlal Nehru Technological University, Hyderabad

Electronics &Communication Engineering