**Lakshmi Phone: 262-246-2423**

**AWS/Devops Engineer Email:** [**Lakshmi.awscloud@gmail.com**](mailto:Lakshmi.awscloud@gmail.com)

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| **PROFESSIONAL EXPERIENCE:** |

IT capable with 6+ years in **Devops, AWS,** cloud, Build and Release association including wide work towards code course of action, bundling, building, researching, modernizing, coordinating, Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Cloud Implementations tuning and passing on code over various circumstances, similarly familiar with **Data centers, Elastic IP's** and supervising security assembles on **AWS.**

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| **PROFESSIONAL SUMMARY:** |

* Experienced as a results and quality driven Configuration Management Engineer with demonstrated success in the development, release and deployment of multiple products in **Supply Chain Management** and Service Industries.
* Good knowledge in **CI (Continuous Integration)** and **CD (Continuous Deployment)** methodologies.
* Managed different infrastructure resources, like physical machines, VMs and even **Docker** containers using **Terraform** It supports different Cloud service providers like AWS and Digital Ocean.
* Configure **Amazon VPC** environment and Networking within a VPC.
* Experience in cloud stack such as **AWS (CloudFormation)** and **VMWARE** stack.
* Experience with **CloudTrail, Glacier, versioning** and life cycle policy of object.
* Installed configured and maintained **DNS systems** using **BIND, Route53 (AWS**), and **PowerDNS.**
* Experience in using **CVS, Subversion, VTFS, Perforce**, **GIT** and **Rational Clear Case** on UNIX and Windows environment.
* Creating Linux Virtual Machines using **VMware** Virtual Center (ESXI), hypervisor-v, PHP Virtual Box.
* Worked on web servers like **Apache** and application servers like **Web logic, Tomcat, WebSphere,** and **JBOSS** to deploy code.
* Experience in Administration for various environments in **software development life cycle (SDLC) Windows, Ubuntu**, and involved in developing manifests.
* Extensive experience with software Build automation and standardization tools like **ANT, Maven**.
* Hands on experience in Installing and dealing with troubleshooting **Ansible** on central nodes and managed hosts.
* Experience in installing Firmware Upgrades, Kernel patches, system configuration, performance tuning on **Unix/Linux** systems.
* Excellent understanding of SDLC, Traditional, Agile, RUP and other Methodologies. Expertise Configuration/Release/Build Management on both UNIX and Windows environments using TFS and 2008, Rational Clear case, Subversion(SVN), Team site.
* Migration and upgrading from **TFS** 2013 to **TFS** 2015.
* Manage virtual d Resources as required with and overall objective of improving scalability, performance, and reliability and highly available fault tolerant cloud infrastructure.
* Help the team with Visual Studio and **TFS** Server connectivity
* Expertise in **TFS** Release Management - Configure Build definitions', Continuous Integration, Monitoring
* Expertise in establishing and maintaining the integrity of the project artifacts throughout the software development lifecycle using configuration management tools such as GIT, Subversion, Perforce and Team Foundation Server (TFS) on UNIX and Windows environment
* Installation and administration of **TCP/IP, NFS, DNS, NTP,** Auto mounts, Send mail and print servers as per the client's requirement.
* Experience in Red Hat Enterprise Linux **(RHEL)** toward the commercial market.
* In-depth knowledge of computer applications and scripting like **Shell, Python, Ruby, Perl, JavaScript** and **XML.**

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| **TECHNICAL SKILLS:** |

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| SCM Tool | GIT, Subversion (SVN), Perforce, Jenkins, Jira, Hudson |
| Build Tool | Ant, Perl, Maven, Quick Build,Json |
| Servers | JBOSS, Apache Tomcat, WebLogic, WebSphere. |
| Version Control Tools | CVS, SVN |
| Languages | Shell, C, C++, Java, python |
| Web Technologies | JDK 1.4/1.5/1.6 HTML, XML. |
| Operating System | UNIX, Linux,Microsoft Windows |
| Database System | My SQL Server 2000/2005, Oracle 9i/10g-PL/SQL, DB2 |
| Build Tools / Release  Engineering / DevOps | Jenkins, Puppet, Chef, Ant, Hudson, Bamboo, Docker, Maven, Anisable, Terraform. |
| Cloud platform | AWS  EC2, VPC, Autoscaling, ELB, RDS, DynamoDB, Route53,S3&ELB,RDS , Elastic Beanstalk, OpsWorks and Cloud Formation, IAM, lambda, Cloudwatch and CloudTrail. |

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| **WORK EXPERIENCE:** |

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**Client: Carnival cruise lines, Miami, FL**

**Role: AWS/Devops Engineer Feb 2016- Present**

**Responsibilities:**

* Implemented **continuous integration** and deployment solutions to target environments.
* Involved in designing and deploying multitude applications utilizing almost all the **AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM)** focusing on high-availability, fault tolerance, and **Autoscaling** in **AWS CloudFormation**.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef Server, Managed On-site OS/Applications/Services/ Packages using Chef as well as **AWS** for **EC2/S3&ELB** with **Chef Cookbooks**.
* Configuring and Networking of **Virtual Private Cloud (VPC)** Written **CloudFormation** templates and deployed **AWS** resources using it.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS Cloudwatch**.
* Integrated AWS Dynamo DB using AWS lambda to store the values the items and backup the Dynamo DB streams.
* Experienced in AWS Elastic Beanstalk for app deployments and worked on AWS lambda with Amazon kinesis.
* Automate operations processes using lambda, CloudWatch Events, Schedules.
* Launching **Amazon EC2 Cloud Instances** using **Amazon Web Services (Linux/ Ubuntu/RHEL**) and Configuring launched instances with respect to specific applications.
* Performed **S3 buckets** creation, policies and on the **IAM** role based polices and customizing the JSON template and **Glacier** for storage and backup on **AWS**.
* Converting production support scripts to **chef** recipes. And **AWS** server provisioning using **Chef Recipes**.
* Creating **Cloudwatch** alerts for instances and using them in **Auto scaling** launch configurations.
* Maintained and administered **GIT** source code tool.
* Convey and screen versatile framework on Amazon web administrations (AWS) and arrangement administration utilizing **Puppet**
* Integrate **Azure**Active Directory for all user authentication/authorization and organization profiles.
* Capturing data from Microsoft **Azure**sites
* Manage **TFS**repository, build and deployment process until UAT environment for 20 .NET applications
* Resolve any issues while merging and branching for **TFS**
* Documenting the process of **TFS** Unified Project Plan and submitting to the competency center.
* Created a custom Puppet module skeleton to use same structure across all **Puppet** modules.
* Implemented Puppet to separate data from **Puppet**code.
* Experience in Implementing Configuration Management tools like Puppet and Chef.
* Written scripts in **Python** to automate log rotation of multiple logs from web servers.
* Installation of **Red Hat Enterprise Linux**, Configuration and troubleshooting for **Red Hat Linux**.

**Environment:** EC2, Chef, AWS, Chef, Puppet, ELB, Terraform, VPC, S3, Red Hat Linux, Git/SVN, Jenkins/Hudson, Maven, shell scripting, Ruby, python, Azure, TFS.

**Client: XPO logistics Philadelphia, PA**

**Role: AWS/Devops Engineer Aug 2014-Dec 2015**

**Responsibilities:**

* Developed and implemented Software Release Management and Configuration Management strategies for various applications.
* Build expertise in Workflow for **AWS** and **Amazon Web services** including **Security Groups, IAM, EC2, S3, ELB, EBS, Policy, VPC, Docker, CloudFormation, Chef, Jenkins, Vagrant, Apache, Tomcat, Git and GitHub.**
* Created highly available and scalable infrastructure in **AWS cloud** by using various **AWS** services like **EC2, VPC, Auto scaling, ELB, RDS, Route53**.
* Migrating a production infrastructure into an **Amazon Web Services** utilizing **AWS CloudFormation, Code Deploy, EBS,** and **Ops Works.**
* Configuring the **Docker** containers and creating **Docker** files for different environments.
* Experience working with **IAM** to create new accounts, roles and groups
* **puppet** 3.x, Chef establishment and setup, arranging planning GUI for computerization utilizing cloud shapes, Design RPM bundles for establishment and arrangement intensive gourmet expert asset.
* Configured and maintained **Jenkins** to implement the CI process and integrated the tool with **Ant** and Maven to schedule the builds and automated the deployment on the application servers using the "code deploy" plug-in for Jenkins.
* Used **Jenkins** for continuous deployment and integration of the build and release process
* Migrated several TFS 2008, TFS 2010 and CVS repositories to TFS 2012 repositories and setup different TFS user groups for the project team.
* Installed and configured TFS 2012 environment on research Lab.
* Migrated research Team projects from **TFS**2010 to **TFS** 2012.
* TFS ALM Implementation.
* Performed **TFS** and VS migration from 2013 to 2015 on premises systems.
* Configure Release management server in **TFS** 2015 and create Build Definitions for Continuous integration.
* Implementing **TFS** as a Key player in the DevOps space.
* Performs backup/recovery operations for **TFS** and related systems.
* Executing technical feasibility and proposal development for moving identified workloads to **Azure**.
* Created a script to add indexes to SQL **Azure**tables
* Administered and Engineered **Jenkins** for managing weekly Build, Test and Deploy chain, SVN/GIT with Dev/ Test/Prod Branching Model for weekly releases.
* Automated Weekly releases with **ANT/Maven** scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.
* Managed **Ansible Playbooks** with **Ansible** roles. Used file module in **Ansible playbook** to copy and remove files on remote systems.
* Implemented and designed **AWS** virtual servers by **Ansible** roles to ensure deployment of web applications.
* Provided end-user training for all **GitHub** users to effectively use the tool.
* Working on Deployment procedures using middleware like **Tomcat**, creating deploy scripts and setting for the Production Release.
* Worked on the connectivity and Firewall issues for the installation and connectivity of the tools.
* Involved in the troubleshooting the servers.
* Working with the hardware vendors and application team for the faulty replacement and planning the downtimes accordingly.

**Environment:** JAVA, SVN, GIT, Apache Maven, Jenkins, Tomcat, Shell Script, Puppet, Chef, ELB, AWS SQS, AWS S3, AWS CloudFormation Templates, AWS RDS, AWS CloudWatch. MYSQL, Mongo DB, Jira, SSL, Python, Perl, AWS, DNS, Docker, Linux, Windows, AWS EC2.

Azure, TFS.

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**Client: Syniverse Technologies Inc., Tampa, Florida**

**Build and Release Engineer Apr 2013-Jul 2014**

**Responsibilities:**

* Used **CloudWatch** for monitoring server's CPU performance and memory utilization.
* Created highly available and scalable infrastructure in **AWS cloud** by using various **AWS** services like **EC2, VPC, Auto scaling, ELB, RDS, Route53.**
* Configured **AWS EC2 Instances** using **AMIs** and launched instances with requirements of specific applications.
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins** and **GitHub**. Whenever a new **GitHub** branch gets started, **Jenkins** automatically builds a new **Docker** container from it.
* Build Automation and Build Pipeline Development using **Jenkins** and **Maven**. Set up build pipelines in Jenkins by using various plugins like **Maven** plug-in, **EC2** plug-in etc.
* Wrote Lambda functions in python for **AWS Lambda,** which invokes python scripts to perform various transformations and analytics on large data sets in EMR clusters.
* Setting up **Jenkins** master, adding the necessary plugins and adding more slaves to support scalability.
* Installed, configuring and administering **Jenkins** as **Continuous Integration** Server on Linux machines.
* Implemented the setup for Master slave architecture to improve the Performance of **Jenkins**.
* Planning and setting up of **Continuous Integration** for various properties on **Jenkins** with Commit, Component, Assembly, and Deploy and Smoke jobs.
* Created **TFS**build definitions for windows service projects.
* Participated in configuring and monitoring distributed and multiple platform servers using **Puppet.** Used **Puppet server** and workstation to manage and configure nodes.
* Experience in writing **Puppet manifests** to automate configuration of a broad range of services.
* In managing virtual instances and disks using **Puppet.**
* Integrated **TFS**with SSRS & SSIS for Custom Reporting.
* Experience in Administering **GIT** in Distributed Environments.
* Ensuring plans execution and Azure consumption targets are met.
* Dealt with errors in pom.xml file to obtain appropriate builds using **maven build** tool.
* Created proper documentation for new server setups and performed backups on existing servers.
* 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.
* Used **Nagios** as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on **Nagios** Event handlers in case of automatic restart of failed applications and services.
* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of the products to various developments.

**Environment:** GIT, Jenkins, Tomcat, Apache, Oracle 11g, Python, JIRA, Maven, Nexus, Nagios, RedHat Linux, Ubuntu, CentOS, Linux, JAVA, AWS EC2, ELB, AWS SQS, AWS S3, AWS CloudFormation Templates, AWS RDS, AWS CloudWatch.

**Client: COMCAST Pennington, NJ**

**Role: Devops Engineer Feb 2012 – Mar 2013**

**Responsibilities:**

* Worked with Product Engineering Team and getting certified products for installations.
* Wrote **Puppet manifests** for deploying, configuring collection of metrics and monitoring.
* **Puppet manifests** are tested initially before **puppet** agent using **Puppet** apply and testing using beaker.
* Running Automate system administration tasks on managed hosts with **Ansible**.
* **Chef and Puppet** pilot project was implemented initially for operations delivery on open source projects with **Apache** and **JBOSS**.
* Deployed **Puppet** for configuration management to existing infrastructure.
* Configured Bamboo Artifactory plug-in to upload the artefacts on to **Artifactory** after the build is success.
* Created best practices for branching, tagging & merging strategy to maintain the source code in the **SVN** & **Git VCS**.
* Source code management is performed using **git** from master repository.
* Created a graph to visualize your infrastructure with **terraform** is very simple, a one-liner in fact.
* Used **Terraform** to map more complex dependencies and identify network issue.
* Installing packages for **JBOSS 7, Tomcat 7**, and **Apache 2.4** by generating modules and writing manifests on **RHEL 6.6, Ubuntu 14.04** for around 400 instances.
* Stored the thermostat data as CSV files in storage blobs. Developed PS script to move the data from **Azure**Blob to **Azure** Blob under same subscription and between different subscriptions.
* Stored the data in **Azure** Blob storage and display in Skype using Microsoft Skype Bot Framework.
* Upload the latest binary codes to deploy tool and deploy the codes to all Preprod, dev and test environment.
* Configuring and monitoring all servers using **Nagios, Splunk** monitor tool.
* Worked on various resource types like host, cron, Ssh, exec, yum, apt-get, user and updating the attributes (subscribe, notify, before) as per requisite.

**Environment:** Puppet, Bamboo, Ansible, Redhat Linux, SUN Solaris 2.x, Windows 2003 server, Web logic Application Server, Git, Jenkins/Hudson, Shell Scripting, Ruby, Python, Azure, Oracle 9i.

**Client: JDA Software, Hyderabad, India**

**Role: Devops Engineer May 2010- Dec 2011**

**Responsibilities:**

* Designed and developed **Jenkins** Build deployments.
* Used **GIT** as Version Control System for two applications. Managed development streams and integration streams.
* Used Perforce for Software Configuration management and maintaining versions of the Symantec’s Website code.
* Labeling activities in **TFS** once deployment is done.
* Developed **UNIX** and **Bash** scripts for manual deployment of the code to the different environments and keep the team updated when the build is completed.
* Executed DB scripts (**DML and DDL**), which have dependencies on the code on Oracle DB.
* Worked in creating **WebSphere Application Server** Clustered Environments and handling Load Balancing for QA, UAT and Production.
* Co-ordinate Instance Refreshes and Environment Re-base lining.

**Environment**: Subversion (SVN), Jenkins, ANT, MAVEN, Web Logic, SQL server 2005, TFS 2010, Perl Scripts, Shell Scripts, XML, UNIX.

**Education:**

**Master in Computer Science year of graduation**

**NORTHWESTERN POLYTECHNIC UNIVERSITY 2015 TO 2016**

**(Fremont, ca)**

**Bachelor’s in Information Technology**

**Nishitha College of Engineering And Technology 2007 to 2011**

**(Hyderabad, india)**