**Tulasi E**

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**(440) 769-1062**

**Cloud AWS Engineer ● DevOps Automation Engineer ● Build & Release Engineer ● Linux Administration● Software Configuration Manager**

**Certifications:**

* [AWS certified Solution Architect](https://www.youracclaim.com/badges/4d200887-b37e-4ed9-85ca-14b435b76067/linked_in_profile)

**PROFESSIONAL SUMMARY:**

* Over 7+ years of experience in the IT industry in various roles with experience in **Linux Administration**, Software Configuration Management, **DevOps Engineer Build & Release management** and development for several markets driven international organizations.
* Experience in Cloud automation using tools like **AWS cloud formation templates, Terraform.**
* Well versed with CI/CD pipeline process and extensively worked on **HUDSON, JENKINS** for **continuous integration (CI)** and for End-to-End automation for all build and deployments.Experience of **Jenkins**, Apache Ant, Apache **Tomcat**, Subversion, **Git**, **Maven**
* In-depth understanding of the principles and best practices of Software Management using methodologies like **Agile**, **SCRUM**, **Waterfall**.
* Proficiency in supporting Production **Cloud environments OpenStack, AWS, Azure**, and **VMWare** as well as traditional managed hosted environments.
* Experience with centrally hosted registries like **Nexus, Artifactory, ECR (Amazon container registry), ACR(Azure container registry)**
* Experience in source code repository management using tools like **GIT, Subversion (SVN),**
* Strong knowledge and real time experience in **Amazon Web Services (EC2, S3, RDS, VPC, Route 53, SNS, SQS and MSK).**
* Experience in cloud native technologies **Kubernetes, docker etc**. Extensively worked on managed kubernetes services like **EKS** and **AKS**
* Experience in container monitoring tools like **Prometheus** and also preparing custom dashboards using **Grafana**.
* Created computing and data resources on AWS using EC2. **Used Docker** to virtualize deployment containers and push the code to EC2 cloud using PCF. Used **Spring Boot** and Netflix OSS for **Microservices** development.
* Experience in Container based CI/CD managed process using **Jenkins, docker and helm.**
* Strong scripting skill using **Shell, Python, Groovy.**
* Ensured, successful architecture and deployment of enterprise grade PaaS solutions using Kubernetes as well as proper operation during initial Application migration and net new development.
* Team player with good management, analytical, communication and interpersonal skills.
* **Micro services** have been built using **Spring Boot, Netflix OSS, Spring Cloud** and deploying to.
* Excellent knowledge in build tools like MAVEN and ANT for the building of deployable Artifacts.
* Configuration management with various automation tools like **Puppet, Chef, and Ansible.**
* 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.
* Experience in Deploying **JBoss, Apache Tomcat web server, IIS Server,** Oracle web logic, and IBM Web Sphere.
* Involved in **Linux administration activities** like troubleshooting of regular issues, configuration issues, applying **AWS Cloud** patches, **kernel upgrades, package management**, diagnosing resource utilization and file system issues.

**PROFESSIONAL EXPERIENCE**

**Kellogg's, Battle Creek, MI**

**Role: Sr. DevOps Engineer Sept 2018 to Till Date**

**Responsibilities:**

* Worked on agile methodology to deliver end to end **CI/CD** delivery to **AWS hosted** services like EC2 and EKS.
* End to end deployment ownership for projects on **Amazon AWS** which includes scripting for automation, scalability, build promotions for staging to production.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling, **Kubernetes AWS** infrastructure and **micro service** container orchestration. Created custom dashboards using Prometheus and Grafana.
* Enabled cloud watch metrics to be collected in **Prometheus** using a fluentd operator.
* Involved in Development and Implementation of **Continuous Integration (CI) and Continuous Deployment (CD)** pipeline involving **Jenkins, Docker, Helm, Ansible and** **Terraform** to complete the automation from commit to deployment.
* Design of Cloud architectures for customers looking to migrate or develop new **PAAS, IAAS,** or hybrid solutions utilizing **Amazon Web Services (AWS).**
* Manage and replicate infrastructure and instance configurations using **Terraform** and **Packer.**
* Involved in deploying **Kubernetes** operators which will rotate SSL certificates from **Venafi**.
* Worked on Several **wrapper cookbooks in** initial phase as POC including **user management** for computing platform team, **base bootstrap cookbook** which install habitat and other required packages and finally monitoring cookbook for OS level components.
* Enabled Terraform pipeline deployments to different cloud providers like **AWS** and **Azure**.
* Implemented **Terraform scripts** to install EKS, Kafka, RDS, EC2.
* Implemented Terraform scripts to procure messaging services like Kafka and SQS.
* Implemented software configuration on EC2 instances using **Ansible**.
* Worked on automating the cache-clear process through ansible tower.
* Built reusable **Terraform modules** to procure different cloud-based infrastructure.
* Used Terraform enterprise to deploy terraform scripts.
* Enables secured access to container logs and other cloud watch logs using IAM.
* Worked on creating **Kubernetes cluster** and deployed those images into containers using **Helm**. Created component and umbrella charts using Helm. Helm is our organization approved package management tool for Kubernetes artifacts.
* Implemented secured access to EKS by configuring different policies in IAM.
* Worked on **playing with API’s using python**. Implemented REST APIs using Python.

**Environment:** AWS, CI/CD, Terraform, Kubernetes, Jenkins, Docker, GIT, GITHUB, Chef, Ansible, EC2, EBS, S3, VPC, RDS, ELB, SVN, Ant, Maven, Tomcat, Java, Red-hat Linux, SUF application Server and Jenkins.

**BCBS, Jacksonville, FL**

**Role: DevOps Engineer May 2016 to Aug 2018**

**Responsibilities:**

* Experienced in Infrastructure Development and operations involving **AWS** cloud platform like EC2, EBS, S3, VPC, RDS, ELB, Auto Scaling, CloudFormation, ElasticCache, CloudWatch, SNS, AWS Import/Export.
* Implemented Chef -Automate and wrote many cookbooks.
* Setting up **Jenkins server** and chef servers in various Operating systems like CentOS, Linux.
* Establish **CI /CD** branches to support parallel development.
* Developed backup Jenkins jobs with **Jenkins DSL** using Groovy Language for all the CI and CD servers.
* Responsible for **Continuous Integration (CI)** and **Continuous Delivery (CD)** process implementation-using Jenkins along with **Python** and **Shell scripts** to automate routine jobs.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation and extensively used Auto Scaling launch configuration templates for launching **Amazon EC2** instances while deploying **Micro services**.
* Configured **Amazon EC2** instances and launching the new instances with same configuration using AMIs (Amazon Machine Images).
* Customized the machine images using packer Implemented the **Docker** for wrapping up the final code and setting up development and testing environment using Docker Hub and **Docker** Container Network.
* Worked in automation, setup and administration of build and deployment tools such as Jenkins, **Jenkins Pipeline and Artifactory**.
* 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)
* Involved in developing **Ansible** scripts for an automated server provisioning and **Docker** images for isolation by reducing the time.
* Experienced in setting up databases in **AWS** using RDS, Storage using **S3** buckets and configuring instance backups to **S3** buckets.
* Hands-on experience in version control using **GIT and GITHUB** and continuous integration management using **Jenkins**.
* Extensive experience in setting up Chef Workstation, Server and Clients.
* **Used Jenkins, Chef, shell scripts to automate the code deployment & automation of continuous integration infrastructure (GIT and Nexus were also used in this process).**
* Worked on troubleshooting’s issue like missing nodes in chef-automate i.e., missing communications between chef-server and chef-automate
* Automated Nagios services for database server, web-server, application-server, networks, file sizes, RAM utilization, Disk performances using Chef.
* Created and Maintained Chef Recipes and cookbooks to simplify and expedite deployment of applications and mitigate user error.

**Environment:** AWS, CI/CD, Jenkins, Docker, GIT, GITHUB, Chef, Ansible, EC2, EBS, S3, VPC, RDS, ELB, SVN, Ant, Maven, Tomcat, Java, Red-hat Linux, SUF application Server and Jenkins.

**Priceline, Norwalk, CT**

**Role: DevOps Engineer Aug 2015 to Feb 2016**

**Responsibilities:**

* Migrated the current Linux environment to AWS/RHEL Linux environment and used auto scaling feature. Involved in Remediation and patching of Unix/Linux Servers.
* Configured AWS IAM and Security Group in Public and Private Subnets in VPC.
* Wrote Chef Cookbooks to bootstrap Chef Client and creation of VM's on cloud environments with the desired applications on the node.
* Wrote the playbooks for Ansible to deploy the different configurations for various hosts.
* Used the Ansible for app deployment and configuration management.
* Deployed the generated build to WEB and APP server using the continuous integration process to all Environments.
* Evaluating performance of EC2 instances their CPU, Memory Usage and setting up EC2 Security Groups and VPC.
* Expertise in Ansible, Vagrant, AWS, Docker.
* Created the Master/Slave pattern for Jenkins to distribute the load and builds around the build farm associated with the releases and using Version Control Tool for source codes repository GIT
* Build scripts using MAVEN build tools in Jenkins to move from one environment to other environments.

**Environment:** SVN, Ant, Maven, Tomcat, Java, Red-hat Linux, SUF application Server and Jenkins.

**Fairleigh Dickinson University, Teaneck, NJ**

**Role: Build & Release Engineer July 2013 to Aug 2015**

**Responsibilities:**

* Create and maintaining a fully Automated Build & Deployment Platform, tools/scripts, other engineering processes and coordinating code builds promotions and orchestrated deployments using Jenkins and GIT.
* Developing Ant scripts to automate the compilation, deployment and testing of Web and J2EE
* Performed scheduling build automation tasks, building service patch builds and scripts.
* Configure, administer, and troubleshoot issues in development, test, and staging environments, create new environments for deploying applications and Maintain Build and Install scripts and Automating manual tasks using shell scripts
* Develop deployment and rollback plans for each production release, Perform Build and deployment activities as per Build calendar and Perform deployments on different environments like QA, Staging and Production environments and deployments of Java artifacts on JBoss and WebLogic application server.
* Troubleshoot Build issues and coordinate with development team on resolving those build issues and Maintain knowledge base to track different issues encountered.
* Perform the task of conducting post-implementation reviews and in evaluating the release quality and maintain and update knowledge base periodically to cover all issues &amp; their RCA.
* Maintain the project related documents in SVN and handle multiple builds generally 3 to 4 per week from Development team, create build and perform deployment activities.

**Environment:** Red-hat Linux, Java, SVN, ANT