**Leela**

**Sr. DevOps Engineer** **shreyas@ikonsys.net Ph: 469 567 9262**

## HashiCorp Certified: Terraform Associate - AcclaimPROFESSIONAL SUMMARY:

* Over **9 plus years** of experience in IT industry comprising of **DevOps Engineer and Build and Release Engineer** which includes Software Configuration Management (SCM), Build/Release Management, Continuous Integration and Continuous Delivery using different tools.
* Experienced in **Configuring and Deploying** infrastructure and applications into cloud using **AWS resources such as EC2 instances, S3, RDS, EBS, VPC, SNS, IAM policies, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OpsWorks, Security Groups** focusing on fault tolerance and high availability.
* Configured and launched **EC2** instances in cloud **AWS** by creating own infrastructure using AWS resources like **VPC, Subnets, Route tables and Internet Gateway (IGW)** and knowledge on VPC peering among different VPC’s.
* Worked on DevOps operations using different tools for achieving **Continuous Integration** and

## Continuous Delivery.

* Worked on several docker components for containerization using **Docker Engine, Hub, Machine, Docker Registry**, **docker images** and handled multiple docker images to deploy in Application servers like **Tomcat/JBoss/WebSphere and WebLogic.**
* Experience working on User admin groups, maintaining account and monitoring system performance using **Nagios**.
* In-depth understanding of **Software Configuration Management** (SCM) processes which include compiling, packaging and deploying of various applications.
* Good experience with **Continuous Integration** and **Deployment** methodologies using **Jenkins, Hudson, SonarQube** and Configuration Management tools such as **Ansible** and **Docker containers** for environment independence.
* Experience in working with different build automation tools like **Jenkins** and **Maven** to achieve End-to-End Automation.
* Extensively used **Docker** for virtualization, Ship, Run and Deploy the application securely for fasten the Build/Release Engineering.
* Hands-on experience on writing **Ansible playbooks** and in creating **Ansible** and **Ansible Tower** as Configuration management tool, to configure and to automate daily tasks, deployment of large- scale applications, and proactively manages changes in the environments.
* Experience in using version control systems like Subversion (SVN) and different flavors of **GIT**.
* Strong knowledge on source control concepts like Branches, Merges, and Tags.
* Experience working with log monitoring with ELK Stack (Elasticsearch, Logstash, Kibana).
* Experienced in **Installations**, **Upgrades**, **Patches**, **Configuration**, **Performance** tuning on UNIX/Linux, system **software** and **hardware**.
* Experience with Oracle, MySQL and Server DB Tasks.
* Engineer, manage, and support source control and binary repository systems such as Bitbucket

/ Stash, Git, SVN, and Nexus.

* Ability to quickly understand, learn and implement the new system design, new technologies, data models and **functional components** of software system in a professional work environment.
* Experience **supporting 24x7 production** and providing **on-call**& weekend support.
* We follow agile and scrum methodology.
* So, in participating scrum we have built in process improvement mechanism called

retrospectives.

* By following agile methodology, we have focused on value and alignment.
* Experienced in **Trouble shooting**, Backup and Recovery

## TECHNICAL SKILLS:

|  |  |
| --- | --- |
| **Programming** | Python, C/C++, Shell Scripting, Groovy |
| **Source****Control/Versioning** | GIT Hub, GIT Lab, Bit Bucket, GIT, Subversion, CVS |
| **CI Tools** | Jenkins, Docker, Harness, TeamCity |
| **Build Tools** | Jenkins, Maven, Nexus, Ant, Nagios, iCinga, Logstash, Crontab, SonarQube, TeamCity, Cruise Control |
| **Databases** | Cassandra, Oracle 11g, MySQL, Postgres SQL, MongoDB |
| **Cloud Technologies** | AWS |
| **Bug Tracking Tools** | JIRA, Remedy, HP Quality Center, SonarQube, Mingle |
| **Web Servers** | Web logic, WebSphere, Apache Tomcat, JBOSS, Nginx, HAProxy |
| **OS** | Linux, Ubuntu, Red Hat 6.x,Mac OS X, Windows |

**PROFESSIONAL EXPERIENCE**:

**Charter Communications, Denver, CO May 2021 – Till Date DevOps Engineer/ AWS Cloud Engineer**

**Responsibilities:**

* Created and managed **CICD** pipeline from end to end to deploy in **Kubernetes** using **GitLab**.
* Container management using **Docker** by writing **Docker** files and set up the automated build on **Jfrog Artifactory registry** and installed and configured **Kubernetes**.
* Worked on **GitLab** migration projects from **Stash & Jenkins** world.
* Worked on code mirroring to **GitLab** from **Bitbucket** server.
* Automated Infra provision for AWS like **EC2, ELB, Security groups, Cassandra, Kafka**, **Cloud Front Network**, **Elastic Cache redis** using **Gitlab** pipelines, used **Terraform & Ansible** for this.

# Worked on **Veracode** integration in the pipelines to scan the code for vulnerabilities.

* Worked on **Secrets-manager** config sidecar to deploy app configs in **Kubernetes**.

# Worked on **Datadog** integration in the pipelines for all our apps to monitor them in **Datadog**

dashboard.

* Automated **ArgoCD** deployment tool for deploy our all configs & services into **Kubernetes.**
* Managed all our **Kubernetes** cluster using **Rancher** service.
* Supported all the build release process for all lower environments like **dev, qa, engprod & uat**, also created **MOP** for **stage & prod** deployments.
* Worked with **production** team to resolve issues while deploying new releases etc.
* Worked on **Secrets-Manager vault** issues like certs renewals & other troubleshooting’s.
* Automated the **Cassandra DB** backup from all our lower environment clusters.
* Worked on **helm**-based pipelines for all our projects.

## Apple Inc, Sunnyvale, CA Mar 2021 – May 2021 Sr. Platform Engineer/ AWS Cloud Infra Engineer

**Responsibilities:**

* Mainly responsible for automating the infrastructure creation against AWS using Terraform, CloudFormation templates.
* Supported number AWS accounts with a lot of services.
* Working on Apple internal tools as well like rubix, rio and radar etc.
* Supporting customers on live issues on application side as well as AWS infrastructure side.

## Charter Communications, Denver, CO Oct 2019 – Feb 2021 Sr. DevOps Engineer/ AWS Cloud Engineer

**Responsibilities:**

* Created and managed **CICD** pipeline from end to end to deploy in **Kubernetes** using **Jenkins**.
* Container management using **Docker** by writing **Docker** files and set up the automated build on **Docker registry** and installed and configured **Kubernetes**.
* Setup **Nginx Ingress Controller** in **Kubernetes** cluster for to access all applications.

# Built Jenkins pipeline to drive all microservices builds out to the **Docker** registry and then deployed to **Kubernetes** created pods and managed using Kubernetes.

* Used of **Docker, Kubernetes** to manage micro services for development of continuous integration and continuous delivery.
* Utilized **Kubernetes** for the runtime environment of the **CI/CD** system to build, test deploy.
* Configured and maintained **DNS** systems using **Rout53(AWS)** and **DNS**.
* Worked on **Kubernetes** cluster maintenance of updating AMI, changing node types, increasing cluster size etc
* Worked on setting up **Rancher** orchestrator, to manage Kubernetes everywhere it runs, worked with Rancher CLI.
* On-board Applications to **CI/CD** and use tool/technologies like **AWS, Jenkins, Docker**, **Kubernetes**

etc.

* Managed and created **Kubernetes** using **KOPS.**
* Worked on **Helm** templates to deploy all services and configs to **K8s** with one click.
* Strong experience in **Grafana** and **Instana** dashboard development.
* Experience using **Terraform** for Infrastructure Provisioning.
* Worked on **Veracode** code scanning pipeline automation.
* Efficiently worked on **Kafka** messaging system from cluster setup to troubleshoot.
* Managed **Cassandra** backups and cluster creation automation also worked on **mongodb**.
* Used **Ansible** to install software packages like **Kafka**, **Cassandra** etc.
* Good knowledge in using **terraform** modules to build infrastructure using **AWS** services.
* Used **Terraform** to for building, changing, and versioning **infrastructure** safely and efficiently.
* Created **S3** bucket and managed different kind policies, worked on cross account **s3** access.
* In depth Knowledge of **AWS** cloud service like **AMI,** Compute, Network, Storage and **Identity & access management**.
* Worked on documented all my work using **chalk pages** also efficiently worked on creating **MOP** for stage and production.
* **Migrated** applications from **data center** to **Kubernetes** successfully.
* Configured **Vera Code** setup in pipeline for different applications **like Nodejs & java etc.**
* Worked on various automations**,** like automated **K8s** cluster creation using **KOPS in Jenkins** etc.
* Utilized **Amazon Route53** to manage **DNS** zones and assign public **DNS** names to **elastic load balancers IP's**.
* Experienced with Docker container service. Creating Docker files, Docker Images & Containers. creation of custom **Docker container** images, tagging and pushing the images.
* Used **AWS S3** to store our deployment yaml’s to deploy in **Kubernetes**.
* Working on providing **DNS** management using **AWS Route53**.
* Developed and implemented **Software Release Management** strategies for various applications according to the agile process.

**Environment:** Jenkins, Maven,MongoDB,Cassandra, Ansible, AWS,Veracode,Kafka,Twistlock,Helm, Python,Shell Script, Docker,Kubernetes,Terraform, Git, JIRA, Linux,Rancher.

## Freddie Mac, Mclean, VA May 2019 – Oct 2019

**Sr. DevOps Engineer/ AWS Cloud Engineer**

**Responsibilities:**

* Implemented **Black Duck** software to scan the external libraries like **Jar, War** files as well as to scan the **Docker images** to identify the vulnerability reports before they go to production.
* Worked on **AWS** services **EC2**, **IAM**, **S3**, **Lambda** ,**SNS**, **SQS**, **VPC**, **ELB**, **RDS**, **EBS**, **Route 53** etc.

# Created and maintained various **DevOps** related tools for the team such as provisioning scripts, deployment tools and staged virtual environments using **Docker**.

* Worked with **Docker** for portable Deployment of applications.
* Install, configure, tuning, security, backup, recovery and upgrades of Atlassian tools like **Bit Bucket, Jira, Confluence and Jenkins** etc.
* Automated the **Bitbucket Server** repository creation using Jenkins by invoking **Python**

# libraries.

* Implemented the **Forty-Five** Scanner to scan the internal Jars within in the organization.
* Administered **Jenkins** continuous integration server installation and configuration to automate application packaging and deployments.
* Used various **plug-ins** to extend the base functionality of **Jenkins** to deploy, integrate tests and display reports.
* Worked on DevOps operations using different tools for achieving **Continuous Integration** and

## Continuous Delivery.

* Ability to quickly understand, learn and implement the new system design, new technologies, data models and **functional components** of software system in a professional work environment.
* Hands-on experience on writing **Ansible playbooks** and in creating **Ansible** as Configuration management tool, to configure and to automate daily tasks, deployment of large-scale applications, and proactively manages changes in the environments.

# Automated Weekly releases with **Maven** scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.

* Extensively used **Docker** for virtualization, Ship, Run and Deploy the application securely to fasten Build/Release Engineering
* Written the proper user documentation and put it in Confluence page.

# Used **Docker** machine as a Containerization tool to containerize the applications.

* Worked with tracking tools like **JIRA**.
* Developed and implemented **Software Release Management** strategies for various applications according to the agile process.

**Environment:** Jenkins, Maven,Postgres Sql, Ansible, AWS, Sonarqube,BlackDuck,Fortifive Scanner, Python,Shell Script, Docker,Kubernetes, Git, JIRA, Linux.

## Verizon, Walnut Creek, CA Oct 2016-Mar 2019

**Sr. DevOps Engineer/Cloud Engineer**

**Responsibilities:**

* Created the automated build and deployment process for application, and leading up to building a continuous integration system.
* Developed and implemented **Software Release Management** strategies for various applications according to the agile process.
* Writing different **Ansible Playbooks** for installing, configuration, and upgrading different applications on the Servers.
* Developed **Scripts** and great ideas to automate system **deployment** to **scale** infrastructure.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Python and app deployments and worked on **AWS lambda** with Amazon Kinesis. Deployed **Ansible modules** to provision and manage AWS EC2 instances, volumes, DNS, and S3.
* Wrote **Ansible playbooks** to manage Web applications also used **Ansible** Tower. We coordinated with **Terraform** DSL for automating inside the **AWS** cloud and worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Worked on creating and implementing CI/CD pipeline using **Jenkins, Hudson and Bamboo** for continuous integration and for End to End automation for all build and deployments. Configured Plugins for GIT Repository, Maven-Docker plugin, Setup **SCM** polling for continuous Build with **Maven** Repository and Deployed Applications using **YAML** files through **Ansible playbooks** as a **CI/CD** Process.
* Responsible for Continuous Integration **(CI)** and Continuous Delivery **(CD)** process implementation-using Jenkins along with Python and Shell scripts to automate routine jobs.
* Installed, Configured and Administered **Hudson/Jenkins** Continuous Integration Tools.
* Involved in project setting up build using **Ansible**.
* Proposed, Implemented and maintained New **Branching strategies** for development teams to support trunk, development baseline codes along with several feature branches.
* Responsible for defining branching & merging strategy, check-in policies, improving code quality, automated Gated Check-ins, defining backup and archival plans.
* Container management using **Docker** by writing **Docker** files and set up the automated build on **Docker HUB** and installed and configured **Kubernetes**.

# Built Jenkins pipeline to drive all microservices builds out to the **Docker** registry and then deployed to **Kubernetes** created pods and managed using Kubernetes.

* Developed CI/ CD - Building Docker container for Java, Spring-boot and Node.js applications and deploying to **AWS EC2** instance using Jenkins, Ansible, Lambda, and DynamoDB.
* Implemented new projects builds framework using **Jenkins & maven** as build framework tools.
* Used Puppet, Ansible to assist in building automation policies.
* Used **Maven** as build tool on Java projects for the development of build artifacts on the source code.
* Deploy Ansible and Jenkins to completely provision and manage **AWS EC2** instances, volumes

**DNS**, and **S3**.

* Installed, Configured, Managed Monitoring Tools such as **Splunk, Nagios, iCinga** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Implemented AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer,** Auto scaling groups, Optimized volumes and **EC2** instances.
* Written pre & post commit hook scripts to accommodate various development requests.
* Performed Branching, Tagging, and Release Activities on Version Control Tools: **GIT.**
* Deployed the Java applications into web application servers like **JBoss**.
* Performed and deployed Builds for various Environments like **QA**, Integration, **UAT** and Productions Environments
* Organized and Coordinated Product Releases, work closely with product development, **QA**, Support across global locations to ensure successful releases.
* Automate and deploy development environments using **Ansible** to various cloud providers

## Amazon AWS and EC2, and Jenkins testing.

* Enabled Continuous Delivery through Deployment into several environments of Development, Test, and Production using **Maven** and **Sonarqube**.
* Automated the cloud deployments using **AWS** Cloud Formation Templates.

**Environment:** Jenkins, Hudson, Maven, Nagios, SQL, Ansible, AWS, Sonarqube,Python, Docker,kubernetes, Git, JIRA, Linux.

## Experian, Schaumburg, IL May 2015 – Sep 2016 Sr. DevOps Engineer

**Responsibilities:**

* Configured instances using **AWS EC2** and configured **Elastic Load Balancer** for continuous health checks, Optimized volumes and **Auto-scaling groups** and Configured object storage **S3** bucket for backup and used **Glacier** to achieve data in cost-effective manner, used multiple methods such (DMS) as Data Migration services to transfer large data from on-premise to **AWS cloud**.
* Worked on AWS **IAM** service for user management, groups and grant permission to new accounts, groups roles to access **EC2, S3 and RDS services**.
* Automated the continuous integration and deployments using **Jenkins**, **Docker** and **AWS** Cloud Templates, build-pipeline- plugin.
* Strong experience in creating **MAVEN** builds and generated artefacts **(Jar, War, Ear) files** which are stored in **Nexus** binary repository and deployed with **Ansible**.
* Responsible in managing all aspects of the software **configuration management** process including code **compilation**, **packaging**, **deployment**, **release** methodology, and application configurations.
* Worked on **AWS** services like **CloudWatch**, **CloudFormation**, **CloudFront** to setup and manage cached content delivery for a speedy recovery and created Elastic load balancers (**ELB**) for high availability and used **Route53** for DNS resolution.
* Using **Bamboo** as CI and installed **maven** plugins and **Ansible** as configuration tools deployed many web applications in the app server.
* Maintained **GIT** repositories for automation code and configuration in **CI/CD Process** to build and deploy the applications by utilizing tools such as **Maven** with plugins in Jenkins server.
* Worked on **Docker hub**, **Docker Images** and handling multiple images for installations and configurations and Responsible for running Jenkins in a **Docker** container with **EC2** slaves in AWS cloud.
* Experience in setting up **kubernetes** cluster using KOPS scripts and rancher and experience in creating build process for **docker** based deployments using **Jenkins** pipelines.
* Develop a CI/CD system with **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the CI/CD system to build and test and deploy.
* Experience in planning, designing, consulting, Implementation& technical skills in areas of

**AWS Cloud**, **Windows** and **Linux.**

* Communicated with Onsite and Offshore team for making the project run smooth and coordinated all teams in deployments of large-scale applications.
* Worked with **JIRA** for project tracking and updating defects and related tasks which handles the project in a smooth manner.

**Environment:** Jenkins, JIRA, TeamCity, Ansible, Maven, Docker, GIT, AWS, Python, Shell Scripting, UNIX/Linux.

## Kriston Solutions, Hyderabad, India Apr 2013 – Feb 2015 Build and Release Engineer

**Responsibilities:**

* Involved in creating **SVN** /**GIT** branches for future parallel releases.
* Involved in creating the pipeline jobs using Jenkins as an automation tool.
* Created the build scripts using **Maven** as a build tool, created the dependency management between JAR packages.
* Invoked **Maven**, **GIT** in Jenkins to automate the whole build process so that as soon as the developer check-ins the code into repository the JAR package gets updated and deployed to the **UAT** servers (**TOMCAT** application server).
* Strong experience with **SCM** methodology, best practices, process improvement, and toolsets.
* Used **JIRA** tool to create BUG/stories.
* Responsible for maintaining the integrity of all builds and environments.
* Involved in maintaining the release history by documenting every minute change with a related

## JIRA.

**Environment**: Maven, Jenkins, JIRA, Tomcat, GIT, SVN/GIT.

## Educational Qualifications:

* Bachelor’s in Electrical and Electronics Engineering.

**Certification Details:**

* 1. URL: <https://credentials.docker.com/o4bs702r>**(DCA)**

Credential ID: 13869742

* 1. URL: <https://training.linuxfoundation.org/certification/verify/>**(CKAD)**

Credential ID: LF-hhfrykwiq0

* 1. [URL: https://training.linuxfoundation.org/certification/verify/](https://ti-user-certificates.s3.amazonaws.com/e0df7fbf-a057-42af-8a1f-590912be5460/444aa636-70f4-50c0-9428-a24b0f03cd15-leela-kumar-kolla-certified-kubernetes-application-developer-ckad-certificate.pdf) **(CKA)**

Credential ID: LF-j8mlq4q153

* 1. URL: [URL: https://www.youracclaim.com/go/qiry0Sjuyv0GUOKtkqNWKQ](https://www.youracclaim.com/go/qiry0Sjuyv0GUOKtkqNWKQ) (**Terraform)** Credential ID: LF-j8mlq4q153
	2. <https://www.credly.com/badges/fcec626a-5708-4683-944a-2e2542fad2f7/public_url> (**AWS**)
	3. <https://www.credly.com/badges/1d0cc04d-f2a0-458a-bea0-62324f3db48b/public_url> (**KCNA**)

**Note:** If you want to verify my certifications, you need to enter my below details…!

First name: **Leela Kumar**

Last name: **Kolla**