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| **NAGARAJU ISLAVATH****E-mail:** islavath.nagaraju@hotmail.com **Phone:** (773)397-6070  |  **kubernetes-ckad.png**  |

**Career Overview:**

Highly motivated Around 10+ Years of experience in IT industry, Software Development Life Cycle (SDLC), Software Configuration Management **(SCM),** Change Management **(CM),** build automation, Release Management **(RM)** and **DevOps** experience in large and small software development organizations.

**Profile Summary:**

* Proficient in DevOps methodologies.
* Worked on Software Development Life Cycles and Agile Programming Methodologies.
* Expert in Jenkins/ Hudson, Apache Ant, Apache Tomcat, Subversion, Git, GitHub, Maven.
* Experience in scripting language Shell.
* Expertise in application of cloud providers and AWS.
* Experienced in Cloud automation using AWS Cloud Formation templates.
* Experience with migration to Amazon web Services AWS from Datacenter.
* Highly motivated and committed DevOps Engineer experienced in Automating, Configuring and deploying instances on AWS cloud environments and Data centers, also familiar with EC2, Cloud watch, Elastic Search and managing security groups on AWS and Azure
* Worked on Java & .Net Build & Release activities.
* Highly skilled in development and configuration experience with software provisioning tools like Ansible, Chef, and Puppet.
* Used Ansible Control server to deploy plays and playbooks to the machines and systems in the inventory
* In depth knowledge / experience in creating Jenkins CI pipelines and good experience in automating deployment pipelines.
* Well versed with Designing and deployed container-based production clusters using Docker, Kubernetes, and Docker Swarm.
* Vast experience in using build tools such as Apache, Maven
* Strong understanding of infrastructure automation tooling using Docker and Ansible.
* Good understanding of Open Shift platform in managing Docker Containers and Kubernetes Clusters. Bootstrapped Kubernetes with Tectonic and used Terraform to deploy highly available clusters.
* Expertise in building of deployment artifacts such as war & ear from source code using Apache ANT and MAVEN.
* Expert in handling user and plugin management for Puppet.
* Skilled in monitoring servers using Nagios.
* Expertise in configuration of SAMBA, SQUID, DNS, DHCP, LDAP, NFS, FTP and troubleshooting.
* Improved throughput and efficiency of build system by providing EO/managers rights to trigger required build.
* Managed infrastructure resources in cloud architecture with close coordination with various functional teams.
* Experience in resolving Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Setup and executed process to code review system effectively.
* Expert in setting up baselines, branching, merging, and automation processes
* Experienced in project analysis, gathering user requirements, technical design and training customers.
* Highly organized, detailed oriented, able to plan, prioritize work and meet deadlines; work well under tight deadlines
* Ability to work directly with all levels of Management to gather user requirements.
* Excellent communication, interpersonal and managerial skills.

**Certification:**

* **Certified Kubernetes Application Developer - (LF-tnwoxq9dwx)**
* **AWS Certified Developer Associate (AWS-ADEV-** **62662)**

**Technical skills:**

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| **Build Tools** | Visual Studio, Make, Maven, Bamboo and Jenkins |
| **Programming/Scripting Languages** | JAVA, UNIX Shell Scripting, .Net, Perl Scripting, Python, HTML. |
| **Application Server/Middleware** | Apache Tomcat, JBOSS, Web logic, Web Sphere |
| **Cloud Technologies** | AWS, Azure |
| **Issue Tracking/Monitoring** | JIRA, Service Now, HPSM, Cloud Watch and Nagios |
| **Configuration Management Tools** | Chef, Puppet, Ansible, Terraform |
| **Database** | My SQL, NOSQL Oracle |
| **Containerization tool** | Docker, Docker Swarm, Kubernetes |
| **Version Control System** | Subversion (SVN), GIT, GITHUB, CVS, SVN, Mercurial |
| **CI Tools** | Jenkins, Bamboo ,Maven, Ant, SonarQube |
| **Operating System** | Windows Variants, Linux, UNIX. |

**PROJECTS AND EXPERIENCE:**

**Client : Maryland Department of Human Services (MDHS) November 2019– Present**

**Role : DevOps Engineer ((Infrastructure)**

**Roles & Responsibilities:**

* Using AWS console for deploying and operating AWS services specifically VPC, EC2, S3, EBS, IAM, ELB and Cloud Formation.
* Gathering requirements from business, analyzing the specifications, documenting the scenarios, and estimating the work effort to be done on features.
* Responsible for designing, building and supporting a secure cloud DevOps platform based on industry standards, best practices and guidelines.
* Determine technical standards and specifications and lead the design, build and on boarding of applications to AWS
* ImplementAWSserviceslikeEC2, ECS, S3 and Elastic Load Balancing.
* Build and Deploy CI/CD pipelines using Jenkins for multiple modern and legacy application technologies
* Implement Ansible/Terraform for configuring and provisioning the Infrastructure.
* Provide professional support services and/or the integration of their respective products.
* Review the application architectural and scape
* Use EC2 Container Service (ECS) to support Docker containers to easily run application son a managed cluster of AmazonEC2instances.
* Make appropriate CI/CD pipeline orchestration recommendations moving from freestyle project to pipeline project in Jenkins.
* Compare various solutions and determine the one which best first heneed.
* Design, develop and maintain Windows/Linux base dinstance sandback end applications.
* Deploy and maintain web-application technologies and middleware solutions on Windows/Linux platform.
* Research new technologies and products like Jenkins Cloud and Nexus for their applicability to business processes
* Provide tier1 and tier2 support for the MDThink
* Great comprehension of the standards and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.
* Created User Administration and Hardware setup and support of Storage and managed paging space.
* Gained sound knowledge in product deployment in servers, email servers, monitoring tools & shell scripts, networking, SQL/MySQL.
* Hands on experience (Knowledge) on performance monitoring tools like App Dynamics, Cloud Watch and Services Related to AWS.
* Working with the hardware vendors and application team for the faulty replacement and planning the downtimes.
* Gained good knowledge in Linux command line & Bash Shell scripting.
* I have knowledge on TCP/IP & related Services-DHCP/DNS/WINS.
* Experienced in supporting 24x7 production computing environments, on-call and weekend support.
* Cross-functional teamwork, communication, analytical and presentation skills, Demonstrated leadership, management skills, time management, and problem-solving skills.
* Collaborate with the application team to resolve build and deploy issues.
* Classified and identify the configurations Items such as documents, Source Items, Support Items and Archive Items Created Repository structure in the Subversion. And Installing Subversion, Apache Tomcat, Application servers on Unix Servers.
* Primary duties include Build and Deployment of the java applications onto different environments Dev, QA and UAT. Used defect-tracking tool Service now.
* Established the change control in response to approved issues and maintained the revision management, base lining.
* Auditing the Source, maintained the Tags, Branching and merging the code in the parallel development of two phases and applied the vendor patches to the Trunk and All branches in Subversion Repository.
* Documenting the process of code promotion, defect tracking and user guide for Subversion. Maintained users’ security on SVN.
* Worked with MAVEN for building the application, has written MAVEN scripts and shell scripts to automate the build process.
* Administering the UNIX, SVN Repository. Migrated the code from other Version Control to Subversion.
* Replicated the Subversion Repositories on to multiple Servers.
* Created the scripts to automate continuous integration of build to compile the Oracle Forms, Reports and Database Objects.
* Installed, Configured the Cruise Control to completely automate build and deployment of the web services applications on to Web Logic.
* Created the process documents and Train the team members. Provided Code Branching strategies for the releases in SCM tool Subversion.
* Worked on Java/J2EE Coding for Portal Applications and Tomcat Web server for hosting web apps. Used SVN version control system to manage different builds for the system.
* Developed automated scripts in shell to ensure daily batch completion and Post batch activities, before releasing the report to the clients.
* Remote system administration using tools SSH, Telnet, and Rlogin.

**Client : CVS HealthCare, Northbrook, IL January 2018 – October 2019**

**Role : Cloud / Sr. DevOps Engineer**

**Roles & Responsibilities:**

* Using AWS console for deploying and operating AWS services specifically VPC, EC2, S3, EBS, IAM, ELB and Cloud Formation
* Installing applications on AWS EC2 instances and configuring storage on EBS Volume.
* Created and maintained continuous integration (CI) using tools Jenkins over different environments to facilitate an agile development process which is automated enabling teams to safely deploy code repeatedly.
* Written few Jenkins files using Groovy scripting
* Proficient in building of deployment artifacts such as war & ear from source code using Maven
* Managed the Maven Repository using Nexus tool and used the same to share the snapshots and releases of internal projects
* Wrote MAVEN Scripts to automate the build process.
* Implementing a Continuous Delivery framework using Jenkins and Maven in Cloud environment.
* Well versed in implementing CI/CD pipeline using Jenkins.
* Experience with container-based deployments using Docker, working with Docker images and

Docker hub.

* Worked with Docker containers and container management tools such as Kubernetes to build
* Master and Worker nodes and for Docker and Kubernetes monitoring.
* Implemented testing environment for Kubernetes and administered Kubernetes clusters
* Developed an API which provides services to deploy developer environments, organize logs and archive exceptions
* Implemented automated deployments using Docker.
* Developed Docker Swarm cluster for orchestrating the services like organizing logs and archive exceptions
* Created Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch
* Deployed and maintained multi-container applications through Docker.
* Experienced working with Ansible tower to create projects, inventory file, jinja2 templates and

Scheduling jobs.

* Worked with Ansible playbooks for orchestration, provisioning, configuration management and

Application development.

* Worked in migrating code from SVN to Git repo (stash/bit bucket), clean the Git repo (purging files).
* Troubleshooting the issues raised while using continuous integration and deployment by Jenkins.
* Performed Subversion to Git migration
* Involved in planning GIT work flow and administering it.
* Responsible for various repository management activities in Git like branching, tagging, rebasing and merging.
* Actively involved in product life cycle (Dev to deployment).
* Applied knowledge of DNS, DHCP and IP Addressing. Installation and configuration of various services like DNS, DHCP, NFS, Send mail, Apache Web Server, SSL, SSH, HTTP, RPM package management and experienced in administering Active Directory and group policies.
* Worked closely with development team and QA team for product releases.
* Implemented Configuration Management, Change Management policies and procedures.
* Deployed the static content to apache web servers and applications to Tomcat Application server.
* Used JIRA as a Change Management/ Work Management/ SCRUM Agile Tool.

**Client : Equifax, Atlanta,GA January 2016 – December 2017**

**Role : DevOps Engineer**

 **Roles & Responsibilities:**

* + Create continuous integration/deployment with Application Release Automation by integrating and improving client's existing infrastructure and build pipelines, largely aiming for autonomous automation when possible.
	+ Migrating a production infrastructure into an Amazon Web Services utilizing **AWS** Cloud Formation, Code Deploy, EBS, and Ops Works.
	+ Managed Ubuntu Linux and Windows virtual servers on **AWS** **EC2**, Used **GAM** to perform bulk Linux command line administration to Google Apps.
	+ Expertise in Amazon **AWS** Cloud Administration which includes services: EC2, S3, EBS, VPC, ELB, Route 53, Auto scaling, Security Groups, Redshift and Cloud Formation.
	+ Installed the application on AWS EC2 **AMI** Instances and configured the storage on S3 Buckets.
	+ Also have hands on experience on working with **AWS** **IAM** to create new accounts, roles and groups.
	+ Worked with various custom resources, created roles & environments and using chef handlers for various auto kickoff requirement jobs.
	+ Deploy and monitor scalable infrastructure on AWS & configuration management using Chef.
	+ Managed Chef Cookbooks with Chef Roles. Used file module in Chef Cookbooks to copy and remove files on remote systems.
	+ Experience in writing Chef Cookbooks for AWS-based deployments.
	+ Maintained and administered **GIT** source code tool, Created Branches, Labels and performed merges in Stash and **GIT**.
	+ Involved in migration from **SVN** to GIT repos and worked with Linux sys admins for the same.
	+ Working experience on chef in Production environment over 60 servers. Working on version control system like GIT.
	+ Configuring the **Docker** containers and creating Docker files for different environments.
	+ Written several **Docker** files to create tomcat along with required version of JDK container images.
	+ Containerized the Docker services like **SSH** daemon service and familiar with several Docker command line utilities.
	+ Primarily used Ruby for chef cookbooks, shell scripting to code tasks that connect various AWS resources.
	+ Developed processes, tools, automation for Jenkins based software for build system and delivering **SW** Builds, Managed build results in Jenkins and deployed using workflows.
	+ Installed and configured Jenkins for Automating Deployments and providing an automation solution.
	+ Managed and Performed **SCM** related work for company’s website. The project involved working on multiple environments for QA and Production.
	+ Redesigned Release management process and build scripts written in Bash.
	+ Developed build and deployment scripts using **MAVEN** as build tools in Jenkins to move from one environment to other environments.
	+ Created cookbooks for Open Stack deployments and bug fixes with Chef.
	+ Debug and resolve Pre-Post Open Stack deployment failures.
	+ Written Unit test cases for chef recipe testing using test kitchen, food critic etc.
	+ Created and modified **HTML**, **PHP**, JQuery, JavaScript, web pages, also Writing restful APIs and Http Server in Node.js
	+ Setup and upgrade database servers and replication environments (PostgreSQL, Maria DB, and MongoDB).
	+ Managed a PaaS for deployments using Docker which reduced considerably deployment risks.
	+ Expertise in marathon in binding volumes to applications and running databases like MYSQL and PostgreSQL.

**Client : Novartis, Hyderabad August 2014 – December 2015**

**Role : DevOps Engineer**

 **Roles & Responsibilities:**

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* Developed automated scripts in shell to ensure daily batch completion and Post batch activities, before releasing the report to the clients.
* Remote system administration using tools SSH, Telnet, and Rlogin.

**Client : MSI Soft Solutions, Kochi October 2009 – August 2014**

**Role : Software Engineer**

**Roles & Responsibilities:**

* Involved in MVC Framework as development environment, deployed in Tomcat Web Server.
* Involved in Designing and Developing UI Interface using JSP, CSS, JavaScript, XML
* Used Eclipse as development environment & deployed Application on Tomcat Server
* Involved in SDLC stages of application including Requirements analysis, Design, Implementation and Testing.
* Involved in designing database schema and working with MYSQL as the database.
* Used MYSQL Database, TOAD to execute Stored Procedures SQL, DDL, DML, PL/SQL for Data manipulation
* Used Subversion (SVN) for version control of the product and Clear Quest and Bugzilla as Reporting Tool.
* Prepared Test Cases, Code Reviews, Utility Classes, Supporting Classes based on requirements.
* Understand user’s requirements, drawn into specifications, Coding Standard, Developing Utility Classes.
* Involved in Requirement framing, Design, coding, unit testing and code review of peers.

**Education Details:**

Bachelor of Engineering, Computer Science, India, 2009