#  Employees

**Philips Health Technology System**

Senior DevOps Engineer [**July-2019 to Till Now**]



**IMS health Pvt Ltd**

Senior DevOps Engineer [**September-2016- June-2019**]

 **Radisys Pvt Ltd**

Senior DevOps Engineer

[**September-2010- September-2016**]

#  Skills

 Gajendra Mani Tripathi

 Senior DevOps Engineer

Gajendra is an experienced (9 years+) DevOps and cloud Practice specialized in the Continuous Integration and Devlivery aspect of the software development lifecycle.

While Gajendra Handled complex long term focused project involving multiple business unit, provides direction to high priority and special project undertaken by business, recommended to client appropriate tools and technology, which is highly suitable for their project. Provided expert consultation in cloud strategy, devops technology assessment and solution design, migration of applications and delivery on AWS infrastructure as a service mode.

Being able to analyze and breakdown complex situations to small-step improvements, Gajendra is a valuable resource for any organization that wants to optimize efficiency, improve quality or modernize from a technology perspective.

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**Bengaluru Karnatka**

**India**

**Development languages**

Bash/Shell Script 5

Python 4

Angular (version 6) 3

**Version control systems**

Git 5

SVN 4

TFVC 3

**ALM Tools**

Azure DevOps / VSTS 4,5 Gitlab/Bitbucket 4

IBM ClearCase/Quest 3

Atlassian Jira 2

**CI Build Tools**

Jenkins 4.5

MVN 4

Make/E-Make 4

SBT 3

**Dependency Management** Artifactory 4

NPM 4

Nexus 4

**External Storage:**

NFS 4

Portworkx 3

Local Storage 3

**Workflow Engine, API & Test Automation**

Stack storm 5

REST API 5

Swagger 4

Selenium 3

**Cloud and Infra automation**

AWS 4

Triton (Private) 4

Terraform 4

Ansible 4

**Monitoring & Logging**

Prometheus 4.5

ELK 4

Grafana 4

**KV, Proxy & Load Balancer**

Consul 5

Trafiek 4

Nginx 4

HA-Proxy 3

 **Database Systems**

MySQL 4

PostgreSQL 3

NoSQL 2

**Operating System**

Linux 4

MacOS 4

**Container Technology** Docker 5

Kubernetes 4

DC/OS mesos 4

Serverless 3

TCP/IP networking 4,5

**Computer architecture**

Embedded systems 4

Qualcomm Board 3

OTA 3

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|  **Experience**  |
| **Philips Health Tech System – Senior DevOps Engineer**July/2019-Present **Summary:** As a DevOps expert Engineer with intention to inspire, coach, consult and train organization on adopting new technology, methodologies, focus on delivering value Generally provide consultation to manage end-to-end infrastructure automation and deployment infrastructure for embedded application, and developed multiple in-house tools, which support end-to-end pipeline deployment strategy for business-embedded projects.Worked for several clients as coach/consultant, supporting multiple teams to achieve organization goal as DevOps teams.Provided several trainings (at DevOps and in-house at customers): Continuous Delivery, Cloud Migrations, Docker and Kubernetes.**Roles:** * Setup pipeline for engage platform that is embedded platform for health care system, which is having make and E-make to build some module, Build and setup Kubernetes distributed fault tolerance, load balanced environment for deployment of application on AWS EKS and on-premises.
* Build and deployed healthcare application and platform (enigma platform) to kubernetes and over AWS cloud, developed Terraform script to setup whole kubernetes cluster and setup desired tools as part of cluster like RDS instance EMR instance, Kafka instance etc. Setup Jenkins Pipeline jobs and On-Demand Jenkins Slave using Kubernetes. Environment and Jenkins master machine as container service, clustered consul server over K8s cluster, which issued for KV store and service discovery, and vault for managing K8s secrets.
* Quality analysis tools like sonarqube, blackduck, fortify as part of continuous integration pipeline. Setup monitoring infrastructure for micro services application and nodes, which participate in cluster and have monitoring setup for local kubernetes cluster and graph drawn to grafana. ELK for log analysis and searches.
* Modern way of deployment application so setup Helm and tiller pod over K8s cluster and setup local helm repository to maintain stable application version. Write up multiple helm chart for application as well as for infrastructure like ingress controller etc.
* Azure DevOps pipeline infra for cotton project, which uses windows deploy environment. In order to support this developed terraform script to setup VPC and VPC peering and windows instance including the entire dependency library and security group for accessing and creation of IAM roles, policies.
* Perform periodic system audits on all environments to ensure that only controlled versions of software reside in all environments. Automated the system audit procedure. Responsible for upgrading system, infrastructure and production application

 **IMS Health System (Now IQVIA) – Senior DevOps Engineer** September/2016-June/2019 **Summary:**  As IMS health care data driven organization so it is very important to choose appropriate suitable tools and technology for health care system project and designed a fault tolerance and load balanced system which is capable to elastic scale up and down infrastructure according to load of request over system. In addition, consulted to provide deployment environment for multi-tenant deployment for variety of multiple customer.Provided expert consult to setup end-to-end continuous integration and continuous delivery pipeline, which has to perform code quality checks and balance, security vulnerabilities, integration of different test automation framework and setup monitoring, logging and alert mechanism framework for micro service application as well as monolithic application for health care system and embedded platform application. **Roles:** * Build and setup DC/OS container orchestration that is distributed fault tolerance, load balanced environment for deployment micro-service application, Setup completely continuous and Deployment infrastructure, which support healthcare platform i.e. IMS one product. Whole DC/OS and other DevOps Supported application were triton private cloud infrastructure, developed ansible script to upgrade or installed any devops tools packages
* Configured DevOps tools like GITLAB, Jenkins, Sonatype Nexus, consul, vault, spring boot, private docker registry, mattermost etc. as micro service architecture on DC/OS platform, these all DevOps Tools are developed as infrastructure as a code model. So that it can be, spawned on-demand instance in no time, with same concept used during dind on-demand Jenkins slave for continuous integration build purpose, used multiple build tools like (Maven, SBT, Gradle, NPM etc.)
* Set up Consul for Key Value store which used to get values during deployment, external load balancer (Trafik) for GIT and Jenkins, which is useful in case DC/OS load balancer is down or choked up. Setup Continuous Integration and Deployment Workflow using Stack storm with multiple mistral workflow and python script. Messaging tools like mattermost, which intact with recent deployment status to channel and it also used for self-healing infrastructure.
* Developed onboarding tool using AngularJs front end tools which asks for some certain input from project owner and it on-board application to all desired platform in two minutes of time, to maintain state used rethink DB as backend, created multiple other tools using python Flask API, swagger UI tools.
* Scalable AWS production environment by Auto-scaling concept with other used concept for infrastructure like VPC, IAM, VPN, ECR, lambda service to support project of versatile nature. In addition, was a part of team for analyzing micro services management using Docker DC/OS and kubernetes, Perform periodic system audits on all environments to ensure that only controlled versions of software reside in all environments. Automated the system audit procedure, and Automating backups using borg and some of using python and shell script.

**Radisys PVT LTD (Now Reliance Telecom) – Senior DevOps Engineer** September/2010-September/2016 **Summary:** Consulted for automation and continuous integration and frequent delivery of product for embedded project which involve low level programming language is specific to operating system architecture, to defined quality gated product released on time my role to draw an automation process was very crucial. Definitely to support and automate full embedded infrastructure and product deployment, need to develop in-house tools as well like we end-up creating with internal patch release tools and contract management system using python, shell and Perl with CGI. Participated pre-sales qualification and delivery of technical architectural design strategies and plan for engagement. Assist in the creation of proposal, which address current and evolving client requirements, identifies loopholes and it communicated with engagement manager. Established relationship with client technical counterpart and of course share experience to each other’s.**Roles:** * Config-Spec generator tools: Spec Rule generator tool is to generate clear case Config spec automatically. It uses predefined template to generate the rule. We have used to CGI to deploy this tool over webserver in intranet and MySQL is used for storing the already generated rule and it has review mechanism to do.
* OTA: CI OTA automation is to automate Total enodeb embedded platform test cases on OTA. It brings up enodeb binary on the respective SoC boards and execute test cases through GOST software. On completion of automation, it will send the summary of OTA run. OTA automation consists of enodeb board, a mobile connected to netimizer laptop and Polaris CNE machine. This also includes GOST software installed in UE and CNE machines
* CI P&S: CI P&S automation is to automate Total enodeb performance / Stability test cases. It brings up enodeb binary on the respective SoC board, attach all the mobiles, and start data on all the mobiles. On completion of automation, it will send the summary of P&S run. P&S automation consists of enodeb board, multiple mobiles connected to windows machines, Polaris CNE machine and video server. This also includes GOST software installed in UE and CNE machines.
* Migration Project: Clear-Case to GIT migration As part of this project, we have migrated Base Clear Case code base to GIT in this approach we have picked up latest GA code base and imported over GIT. We have used Stash as front-end tool that is part of Alsatian product suites. We have customized the according to GIT environment and written multiple hook which helps to maintained end-to-end product integrity. I was also responsible for creating CM strategies plan, implementing a robust build infrastructure and customer release and package delivery to the customer.
* As part of Continuous Integration, we have simplified our enodeb make file which enabled us to run parallel compilation of each SOC which turns out to minimize build timing optimization. As mean time we have explored electric cloud make file to run parallel build. We have used Jenkins as a Continuous Integration tools used multiple plugin (git, Mailer, NodeLabelParameter [Server Pooling], monitor plugin etc.) which run CI and send a consolidated report to respective stakeholders.
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