

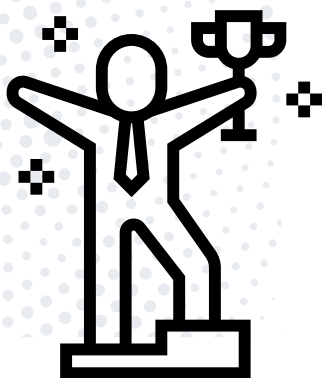


## Transforming Enterprise Operations with AWS DevOps Implementation

**Client:** The client is a leading enterprise handling multiple operations with various industries to their customers in the USA.

### Business Challenge:

Since their business is growing every day, with an increased number of customers, they faced difficulties handling various business operations for our client. The industries such as Manufacturing, Retail, Ecommerce, and more! They faced difficulties in managing IT infrastructure, controlling, monitoring, workflow management, time management, operational errors, and more...



### Solution Delivered:

After analyzing their business needs and their customers' requirements, our team proposed a solution to deploy DevOps to increase operational efficiency to deliver business needs. This helps in accelerating the organization to serve better for their customers. Since our client has to manage the manufacturing chain, ecommerce website, CRM, and data warehouse management, we decided to give them a hassle-free workflow with rapid performance and reliability. Utilizing AWS and CI/CD deployment with more functionalities, we helped them automate their processes, manage IT Infrastructure, and monitor in a single system.



## Business Benefits:

With AWS implementation and the DevOps process, the client was delighted and able to achieve the benefits mentioned below:

- 📊 Increased performance and hassle-free flow
  - 🕒 With automation, they gained a faster time to market with increased ROI
  - 🕒 Less time for managing operations
  - 🕒 More time for collaboration and innovation
  - 🔍 Transparency in the manufacturing process
  - 👤 Seamless customer experience.
  - 🔒 Improve visibility and security
  - 🛠️ Fully managed services
  - 🚀 Leveraging automated performance
  - 👁️ Continuous monitoring
  - ⚠️ Less operational errors
  - 🤖 Fully automated workflow
- And more...

## Technologies Used:

**Source code repository:** Code Commit, Bitbucket & Github.

**Continuous Code Build:** Maven, Code Build, Gradle.

**Continuous deployment:** Code Pipeline & Code Deploy.

**Configuration management:** System Manager and Ops Work.

**Containerization and container management:** Docker, Kubernetes, Docker Compose, Docker Swarm.

**Load balancers and HTTP caches:** ALB, NLB.

**Server monitoring:** Prometheus, Cloud Watch & Grafana.

**Log management:** Elasticsearch, Logstash, Kibana (ELK), Cloud Watch Log.

**Infrastructure as a Code:** Terra Form, Cloud Formation.

**Web Server:** Apache, nginx, Tomcat

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