GIT SOFTWARE
TECHNOLOGIES

ISO 9001 & ISO 27001 CERTIFIED

AWS Cloud Services

- Cloud Consulting
- Cloud Migration
- Cloud Architecture design
- AWS Security & Compliance
- DevOps & Automation
- Cost Management

AWS Well-Architected

Cloud Migration

Cloud Native Development

DevOps

AWS Team Structure

GIT SOFTWARE TECHNOLOGIES

AWS Solution Architect

AWS Data Architect

AWS Project Manager

DevOps Manager

DevOps Engineer

Support Engineer

AWS SECURITY

GIT SOFTWARE TECHNOLOGIES

Case Studies and Our Expertise

Case Study - On Premise to AWS Migration

GIT SOFTWARE TECHNOLOGIES

Overview : A prominent U.S. shipping company sought to migrate its ERP system from a New York City-based data center to AWS. Their primary objective was to leverage cloud-native services to ensure the efficient storage and management of documents during the migration process

Project Duration : **18 Months** Geography: **USA, Europe, Asia** Team Structure: **Onshore/Offshore** Hybrid

Challenges:

- Limited Scalability and Performance Issues: The organization faced constraints due to fixed application and database servers in the data center, which were unable to scale effectively to accommodate high application loads.
- Excessive Oracle Database Size: The substantial size of the Oracle database, resulting from document storage, led to increased backup times and operational inefficiencies.
- Monolithic Architecture Limitations: Scaling individual components required the deployment of the entire application, complicating updates and resource allocation.
- Application Speed Concerns: Users in China experienced significant latency issues, as all content was served from a U.S. data center, negatively impacting access speed.

Solutions:

- AWS Hosting in Ireland: The application was hosted in the AWS Ireland region, utilizing auto-scaling capabilities to effectively manage variable loads.
- Optimized Document Storage: The application architecture was redesigned to store documents in Amazon S3, significantly reducing database size and expediting backup processes.
- Transition to Microservices: The architecture was transitioned from a monolithic to a microservices-based framework, allowing the most utilized components to operate independently for enhanced efficiency.
- Utilization of AWS CloudFront: Implemented AWS CloudFront to leverage edge servers, improving the delivery speed of static content and enhancing the user experience.
- Infrastructure Automation with Terraform: Developed Terraform templates to streamline the creation of application instances for new customers, facilitating rapid deployment and scalability.

Benefits:

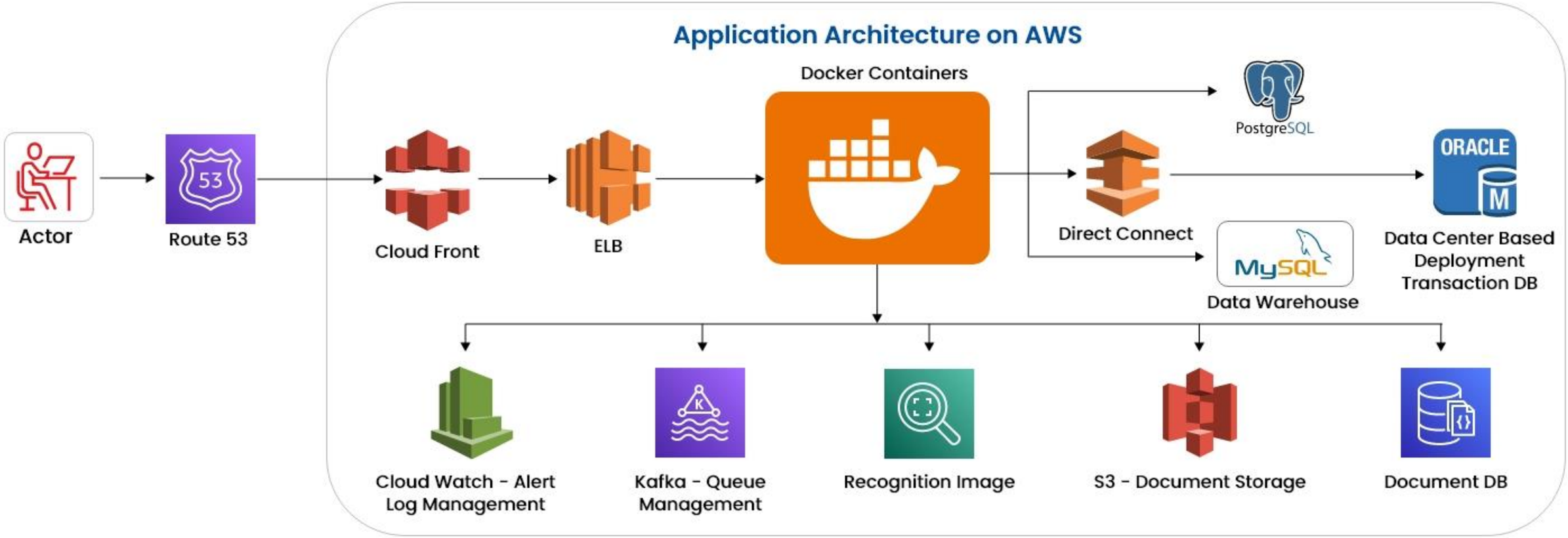
- Increased User Satisfaction and Operational Productivity: Users are able to process a higher volume of shipments daily.
- Lower Storage Costs: Utilizing Amazon S3 significantly reduces storage expenses, cost-effective solution for document management.
- Efficient Deployment and Scalability: The implementation of streamlined deployment processes enables rapid scaling to meet business needs effectively.

Conclusion:

By Migrating the Application & Infrastructure from On Premise to AWS, the shipping company has significantly enhanced agility, achieved remarkable cost savings, ensured delivery excellence, and is well-prepared for the unknown

Case Study - Transforming Monolithic ERP into Agile Microservices Architecture

GIT SOFTWARE TECHNOLOGIES



Application - DevSecOps Stack

Apache Maven™ · Liquibase · snyk · Selenium · Jira · Bitbucket · Bamboo · Guard Duty

Case Study - Bespoke Apps Development (AWS)

GIT SOFTWARE TECHNOLOGIES

Overview :
A US-based university aimed to develop an online student and faculty management system with the objective of cloud hosting and ensuring 99.99% uptime for continuous availability.
Project Duration : **11 Months** Geography: **USA,** Team Structure: **Offshore** # of Users : **1000**

Challenges:

- The application must maintain 24/7/365 uptime with zero downtime to ensure continuous availability.
- It should provide consistent performance and access speed across multiple countries, regardless of the user's location.
- The application should offer unlimited storage for students to upload assignments and educational materials.
- Integrated OCR functionality is required to scan and process data from PDF documents.
- A dedicated database with real-time updates is essential to meet reporting requirements

Solutions:

- The application was developed using a microservices-based architecture, with Blue-Green deployments ensuring zero downtime during updates.
- AWS CloudFront edge servers were leveraged to deliver static content, significantly enhancing the application's overall speed and performance.
- Amazon S3 was integrated as the storage solution for student-uploaded content, providing scalable and reliable storage.
- The application utilizes Amazon Textract to offer advanced OCR functionality, enabling users to extract text from uploaded documents.
- A separate read-replica database, in addition to the main transactional database, was implemented to handle reporting requirements in real-time.

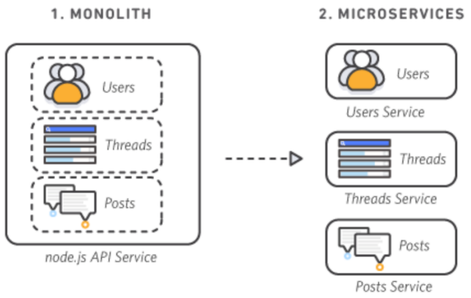
Benefits:

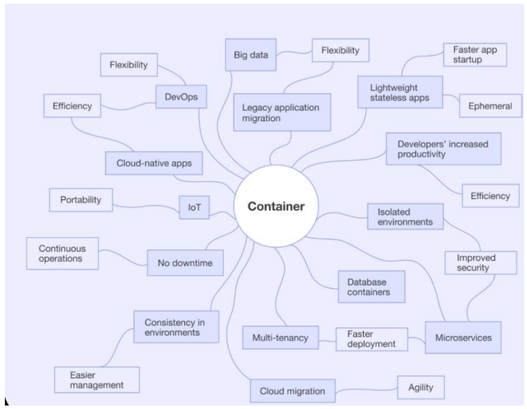
- Built-in Scalability: The application architecture is designed to scale seamlessly as demand grows.
- Zero Downtime Deployments: Updates are deployed without any interruptions, ensuring no impact on users.
- Isolated Reporting: Reporting queries are handled separately, ensuring they do not affect the performance of the main application.

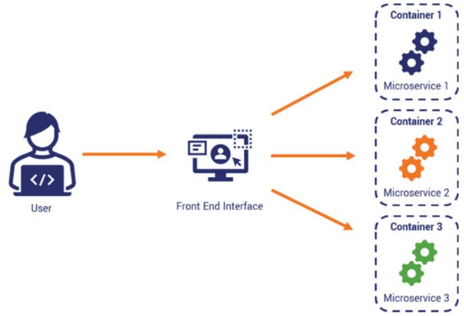
Conclusion:

✓ By leveraging Cloud Native Application development services , US based university achieved robust architecture that supports both seamless growth and high availability, positioning the application for long-term success.

Case Study - Microservices Architecture and Containerization







Project Duration : **5 Months** Geography: **USA,** Team Structure: **Offshore**

Overview:

This case study explores the migration of a monolithic application to a microservices architecture using containerization technology (e.g., Docker) and container orchestration (e.g., Kubernetes). The goal is to improve scalability, maintainability, and deployment efficiency of the application.

Challenges:

- ❖ Complexity: Monolithic apps grow complex and challenging to maintain over time.
- ❖ Scalability: Scaling a monolithic app means scaling the entire codebase, even for specific functionalities.
- ❖ Deployment: Updating a monolithic app is time-consuming and risky, requiring the redeployment of the entire application.
- ❖ Limited Development Agility: Developers in monolithic setups may face delays waiting for integration and testing of each other's changes.

Solutions:

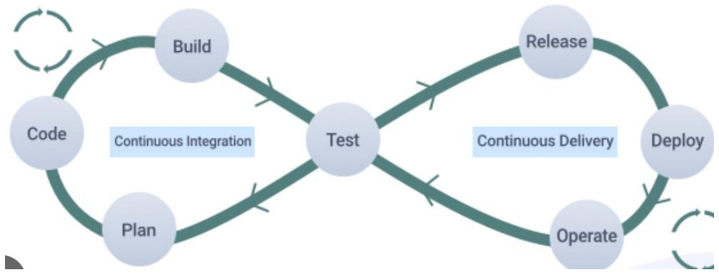
- ❖ Microservices: Split monolith into independent services for flexible development.
- ❖ Dockerize: Package microservices with dependencies for consistent environments.
- ❖ Kubernetes: Automate container management for efficient deployment and scaling

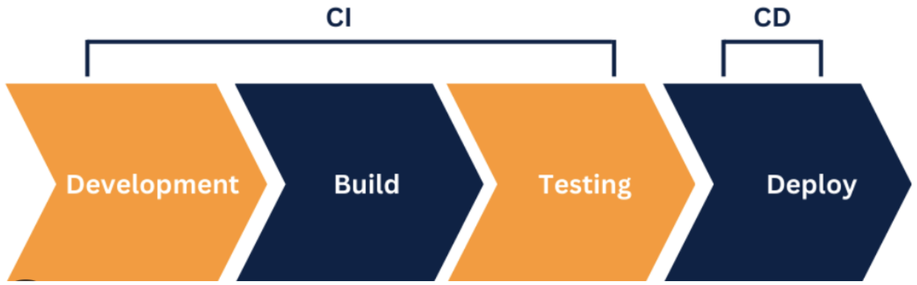
Benefits:

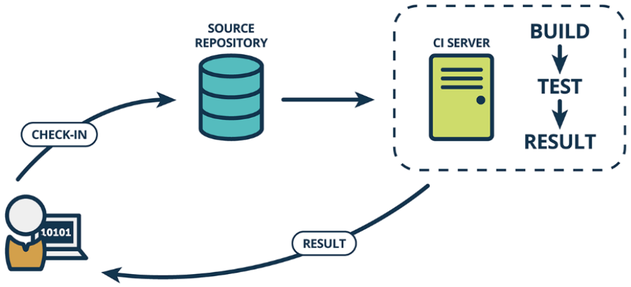
- ✓ Scalability: Scale microservices efficiently for tailored resource allocation.
- ✓ Deployment Speed: Rapidly deploy changes to microservices with minimal downtime.
- ✓ Maintainability Boost: Smaller microservice codebases are easier to manage and update.
- ✓ Fault Isolation: Microservice failures are contained, preserving overall system functionality.

Case Study - Continuous Integration/Continuous Deployment

GIT SOFTWARE TECHNOLOGIES







Project Duration : **3 Months** Geography: **Europe,** Team Structure: **Offshore**

Overview:

This case study explores the implementation of a Continuous Integration and Continuous Delivery (CI/CD) pipeline for a software development team. The goal of the CI/CD pipeline is to automate the software development lifecycle, leading to faster and more reliable software delivery.

Challenges:

- ❖ Manual Processes: Traditional development relies on slow, error-prone manual tasks like code reviews and deployments.
- ❖ Integration Challenges: Merging changes from multiple developers can cause conflicts and regressions.
- ❖ Deployment Hazards: Manual deployments are risky and time-intensive, raising the possibility of introducing bugs.
- ❖ Feedback Delay: Slow delivery cycles hinder prompt feedback on new features and fixes.

Solutions:

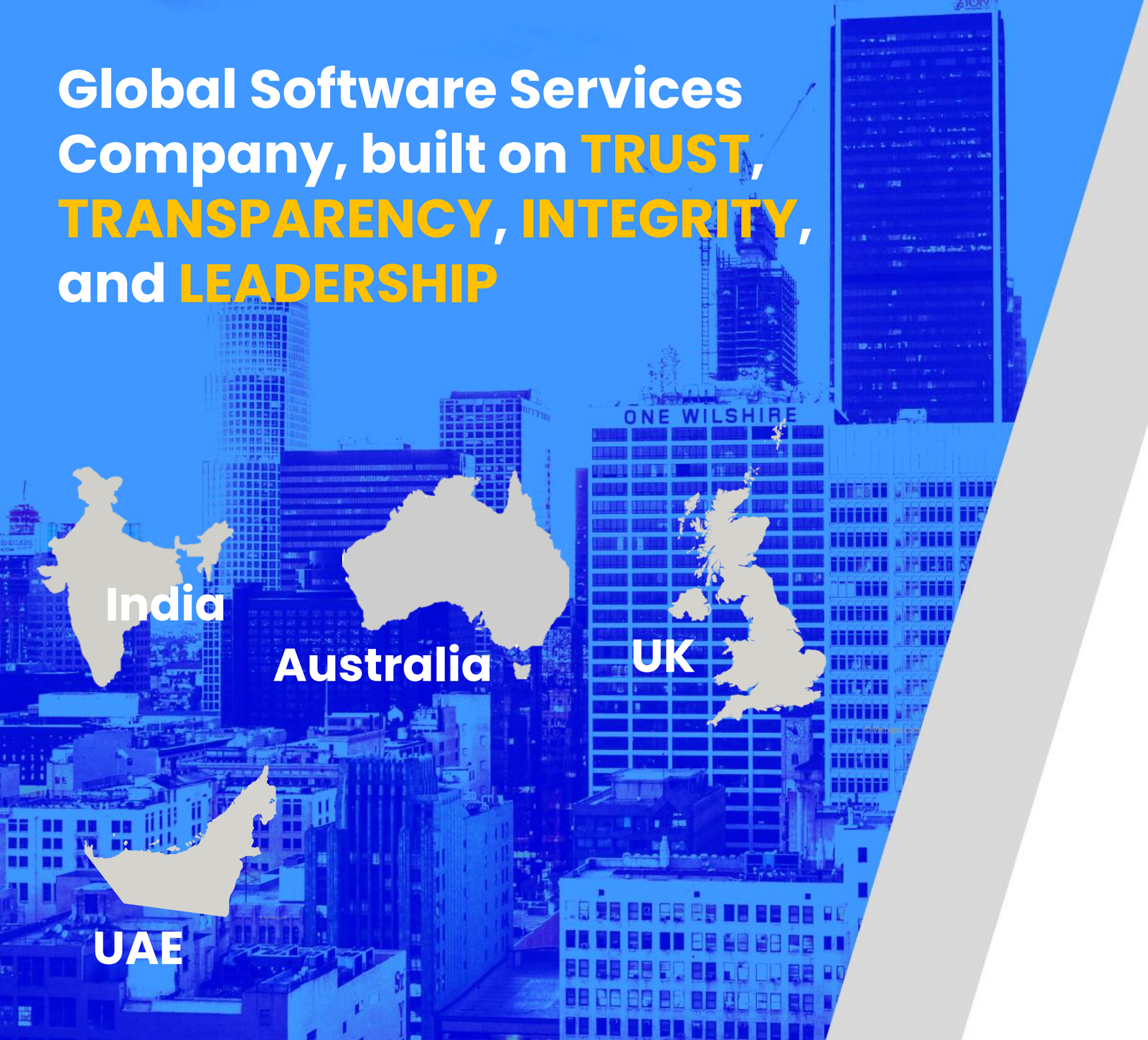
- ❖ CI Pipeline: Automate code building, unit testing, and integration testing for early issue detection and code quality assurance.
- ❖ Version Control: Use Git for code management and change tracking.
- ❖ Automated Testing: Implement automated unit and integration tests for code quality assurance.
- ❖ CD Pipeline: Automate code building, packaging, and deployment across different environments for frequent and reliable deployments.

Benefits:

- ✓ Accelerated Delivery: Optimize development for quicker releases and faster market entry.
- ✓ Enhanced Quality: Early bug detection through automation ensures a superior software product.
- ✓ Mitigated Risk: Automated processes reduce errors and ensure consistency, minimizing risks.
- ✓ Improved Reliability: Continuous monitoring and frequent deployments enable swift issue resolution.

About GIT

Global Software Services Company, built on TRUST, TRANSPARENCY, INTEGRITY, and LEADERSHIP



GIT SOFTWARE TECHNOLOGIES

2021
Incorporated

12+
Projects

10+
Clients

04
Global Office

19+
Oracle Specialization

Certified
Professionals

100%
Aligned with business objectives

OUR CORE VALUES

are aligned with your business objectives

GIT SOFTWARE TECHNOLOGIES

STRATEGIC PARTNERSHIP

Strategically positioned in India, UK, UAE and Australia, delivering services with a deep understanding of your regional market and business environment. We collaborate to ripe mutual benefit for a healthy long-term relationship

VALUE CREATION

We aim to enhance business efficiency, productivity, and innovation, ensuring our clients receive maximum return on their investment

DEEP SPECIALIZATION

With extensive expertise in various IT domains, we specialize in Oracle, other market standard databases, Salesforce and AWS for managed services, analytics, consulting, staff augmentation and application solutions

KNOWLEDGE POOL

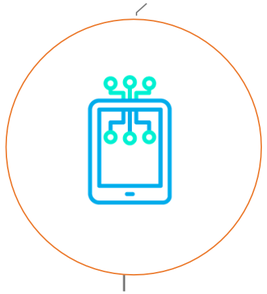
We harness the deep and diverse knowledge pool of our talented team to deliver innovative and tailored IT solutions, ensuring excellence within the triple constraint

CLIENT CENTRICITY

Our clients are at the heart of everything we do. We prioritize their needs and satisfaction, providing personalized services and maintaining open communication

Our Services

GIT SOFTWARE TECHNOLOGIES

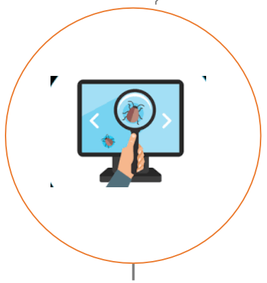


Data Science & Digital Services

- BI & Analytics
- Data Warehouse
- AI/ ML
- IoT & RPA
- Deep Learning
- Predictive & IoT Analytics

Technology Services

- Enterprise Application Development
- Cloud Services
- Custom API
- Enterprise Integration



ERP Services

- Consulting and Assessment
- Migration End to end Implementation & Support
- Enhancement and Custom Modules.

Port Terminals & Logistics Services

- TOS Development
- Dry Dock & Customs
- Logistics & Supply Chain
- Warehousing Automation
- Digital Freight & Transportation

Engagement & Support

- 24x7 Operations Support
- Hyper-care and PODs
- Application Migration & Modernization
- DevOps & Cloud Integration
- Business Process Managed Services

Our Technology Expertise

GIT SOFTWARE TECHNOLOGIES

Enterprise Platform


BI Analytics




Database




Web Applications








IoT And Cloud




E-commerce



Mobile




Process Automation


INTECH
THE DESIRE TO PERFORM

THANK YOU

INDIA
GIT Software Technologies LLP
9531, Main Delhi Mathura Road Bamni Khera,
Palwal, Haryana - 121105
Phone: +91 9528836868
Email: sales@gitsoftwaretech.com

UAE
Care of: Fintegra Solutions FZC, Al Shmookh
Business Center M1003, One UAQ, UAQ Free
Trade Zone, Umm Al Quwain, UAE
Phone: +971 50 163 0084
Email: sales@gitsoftwaretech.com

UNITED KINGDOM
GIT Software Technologies Limited
71-75 Shelton Street, Covent Garden,
London, United Kingdom, WC2H9JQ
Phone: +44 7442678628
sales@gitsoftwaretech.com

AUSTRALIA
Office Address:37 Apple Tree Drive ,
Cherry Brook , Sydney Post Code 2126
Phone: +61 451171321
Email: sales@gitsoftwaretech.com