

CASE STUDY

**CI/CD PIPELINE IMPLEMENTATION FOR A
GERMAN CONGLOMERATE**



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ABOUT CLIENT

The client is the Middle East entity of a German conglomerate providing a range of technical services to Oil & Gas, Marine and Construction industries.

The Middle East entity was established over 2 decades ago with its businesses spread in UAE, Qatar, Saudi Arabia, Oman, Bahrain and Kuwait employing over 4,500 people in the region.

BUSINESS NEED

- Client was running multiple VMs without a centralized management console which resulted in higher year-on-year IT budgets, non-standard software packages and low resource consolidation.
- Slow frequency of the app upgrades challenged how the client delivered their services.
- Cost estimation and human power estimation was done manually through excel leading to higher time consumption and errors.
- Fault isolations were not being easily detected.
- Client and development team were initially facing difficulties to manage source code repositories.

CCS SOLUTION

- Implemented Gitlab, a web-based DevOps lifecycle tool that provides a Git-repository manager providing wiki, issue-tracking and continuous integration/continuous deployment pipeline features.
- CCS implemented Jenkins tool for continuous integration.
- Implemented Nexus repository manager, to manage proxy, collect, and manage the app dependencies.
- Implemented SonarQube for continuous inspection on code quality to perform automatic reviews.
- CCS implemented Docker; a container management tool used in DevOps to manage software parts as a package.



BUSINESS BENEFITS

- Development environment can be shifted to production environment without any dependency issues.
 - CI/CD pipeline helped client achieve faster app deployments and helped them improve their service deliveries.
 - Successfully implemented continuous deployment and testing.
 - Helped the client leverage multicloud platforms.
 - Met with compliance requirements.
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