TCS MasterCraft™ TransformPlus:
An Automated Approach for Application Migration to Cloud

To know more:
visit the TCS MasterCraft page on tcs.com
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Awards & Recognition

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IT Services
Business Solutions
Consulting

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that has been partnering with many of the world’s largest organizations to transform and modernize their businesses.

In the era of cloud, cognitive and digital, TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model, recognized as the benchmark of excellence in software development. A part of the Tata Group, TCS has a global delivery network and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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Overview
For modern enterprises, digital transformation is no longer an "if", but a definitive "when". As digital-native disruptors enter the market and end-customers adopt a tech-first stance, business processes must be modernized. A vital part of this conversation is pan-organization cloud migration. This would standardize mission-critical tasks and reduce your Total Cost of Ownership (TCO).

However, cloud migration is often hindered by coding deficiencies and architectural non-compliance. In the absence of adequate knowledge-bases and automation capabilities, enterprises risk time, effort, and resource inefficiencies. On-premise applications based on .NET or Java could face these overarching challenges or bring several minor issues to the table. These lead to protracted migration timelines and maintenance challenges after deployment.

Tata Consultancy Services’ (TCS’) MasterCraft accelerates cloud migration and optimizes efforts/investments required for the initiative. Our enterprise-grade product analyzes applications and static codes currently active. The impacted code components are identified using an extensive remediation rules repository. Finally, the code remediation process is automated, reducing manual intervention across public and private cloud environments.

Our Solution
TCS’ MasterCraft, part of our Tools Group, eases cloud transformation by addressing a number of critical roadblocks. The salient features of the solution are:

- **Technology-agnostic framework**: streamlines application remediation for JAVA or .NET based solutions and processes
- **Comprehensive rules repository**: comprises over 300 expert-curated rules, based on successful migration projects across public, private, and hybrid cloud environments
- **Extensive knowledge base**: contains information regarding a variety of processes and implementation approaches that is continuously updated and fully reusable, reducing effort duplication
- **Intelligent assessment workbench**: identifies code elements and enables pattern discovery and analysis, ensuring zero-spill migration for minimal delays or loss of desired functionalities
- **Flexible and automated remediation workbench**: proactively verifies and migrates the identified code elements to the cloud.

Benefits
By deploying TCS MasterCraft, enterprises can action the following benefits:

- **Accurate impact analysis**: assess migration impacts to understand and evaluate deployment approaches, and possible post-implementation scenarios
- **Automated remediation**: re-configure applications in-line with cloud requirements
- **Accelerated migration**: shorten remediation timelines by preempting and resolving delays
- **Optimized investments**: reduce remediation costs and boost cloud ROI

The TCS Advantage
Partner with TCS to leverage the following key differentiators:

- **End-to-end orchestration**: TCS orchestrates four key enterprise components: application, technology, platform, and data. This creates a contextual cloud ecosystem, equipped for automated and agile virtual processes.
- **A robust partner network**: TCS provides a wide range of integrated modules, spanning global cloud leaders such as Amazon, MS Azure and Google, offering enhanced flexibility when migrating.
- **Built-in scalability**: TCS’ unique solution design and deployment model implements a fully functional solution that can be scaled in sync with growing business requirements.
- **Cross-industry support**: TCS finetunes delivery capabilities for multi-cloud and hybrid cloud integration scenarios, with support across a variety of geographies and sectors.

Figure 1 depicts the Application Cloud Migration Capabilities of TCS MasterCraft™ TransformPlus.
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![Diagram of Application Cloud Migration Capabilities](image)
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