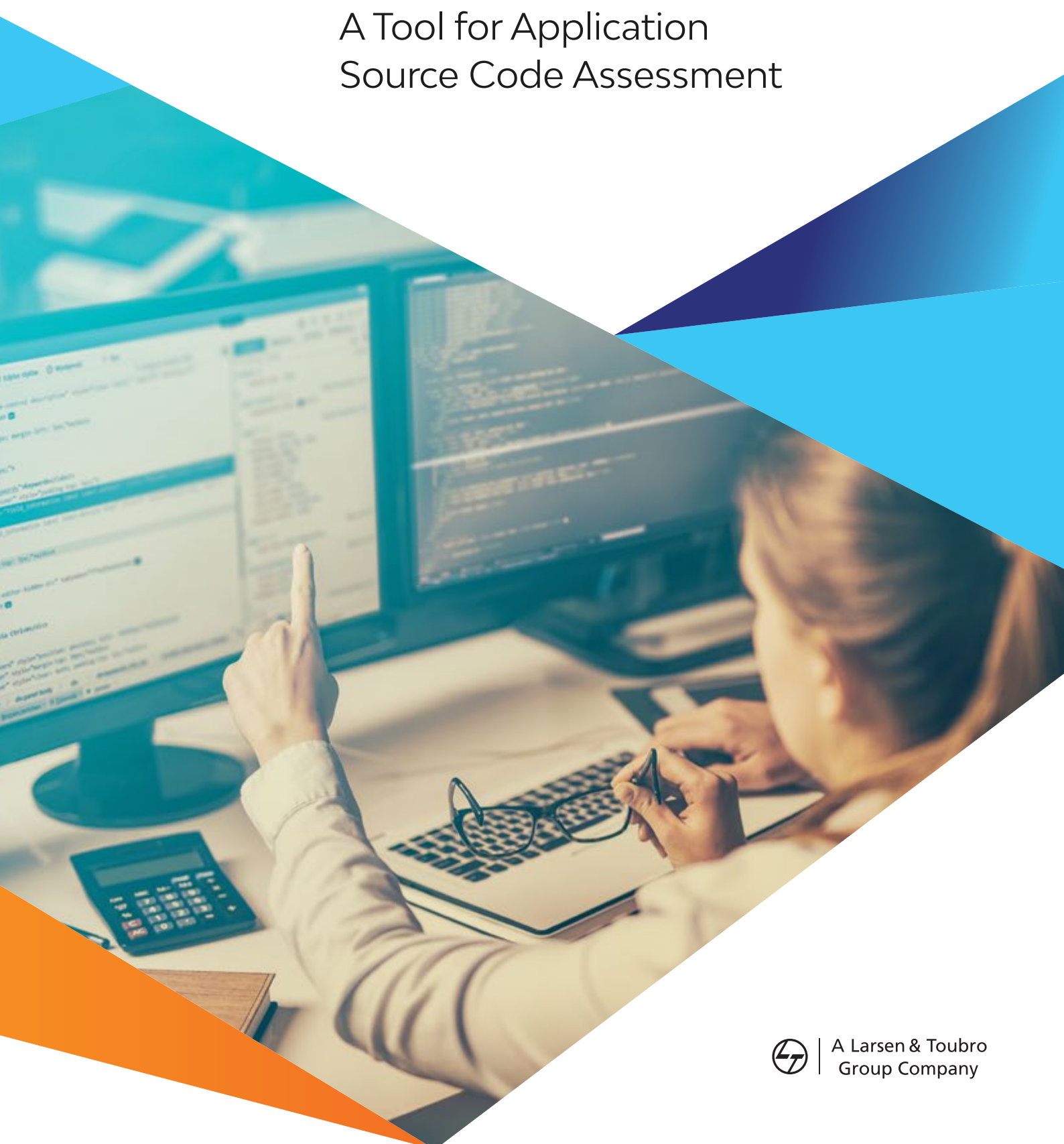




Let's Solve

PaaSify - Cloud Re-engineering Assistant

A Tool for Application
Source Code Assessment



A Larsen & Toubro
Group Company



Macro View: Application Assessment for Effective Cloud Transformation

Cloud is the new normal for organizations today to adapt to a dynamic digital world. Most enterprises, transitioning to the cloud analyze their portfolios, and select the applications to be migrated, based on whether to retire, re-factor, re-host, retain, repurchase, or re-platform the same. Using LTI's PaaSify tool, enterprises can easily make informed decisions about how to refine this so-called '6R' approach. For applications requiring little or no modification, a variety of migration tools could be used to automate the underlying process. For applications identified as refactoring or re-architecting candidates, companies can reduce

their 'technical debt' by moving these assets away from legacy or commercial software or embracing a cloud native approach to migrate the same. In addition, existing applications that have been migrated using a lift-and-shift approach can be modified to be cloud native, to maximize business benefits – including lower operating expenditure.

However, enterprises find it difficult to identify the requisite changes as per best practices, such as the 12-factor cloud native principles, for each application across their IT portfolio. This results in the following problems:

Lack of knowledge of source code dependencies

Enterprises who have decided to be cloud native often find it easier to move away from proprietary or legacy frameworks to the newer technology stack. In such situations, it is not clear as to what dependencies exist in the applications about legacy frameworks and external packages or libraries.

Lack of visibility across the portfolio

Most business lines lack visibility into the issues with respect to cloud native portfolio applications. It is also difficult for enterprise users to take informed decisions when they do not have access to the bigger picture. Another challenge business line owner face is not being able to track how many changes are required across the application portfolio, from a cloud native perspective.

Cloud provider lock-in

Hybrid IT is the way forward. Enterprises may have decided to go with a cloud-agnostic approach, whereas the development teams may be tempted to adopt specific services provisioned by the cloud provider. This may result in a lock-in with the current cloud provider.

Lack of expertise

Development teams could be unaware of the architectural considerations like best practices for cloud native, or the need to move away from superannuated frameworks for redeveloping and re-architecting applications for the cloud. Consequently, organizations may end up with a bigger 'technical debt', causing operational problems.



Effort overrun

A major problem is that of severely underestimating the efforts involved in making the necessary changes. As a result, enterprises could face a massive cost overrun, triggering a potential abandonment of the undertaking midway.

How LTI can Help

LTI has designed and created a proprietary toolkit for cloud assessment that enables enterprises to assess their readiness for migrating to a cloud native state. The toolkit is a cloud-agnostic solution that effectively evaluates and guides migration of your applications to the cloud and focuses on lowering business risks.

A self-driven portfolio analysis tool, augmented with assessments and recommendations, that adds value to your Cloud Transformation journey

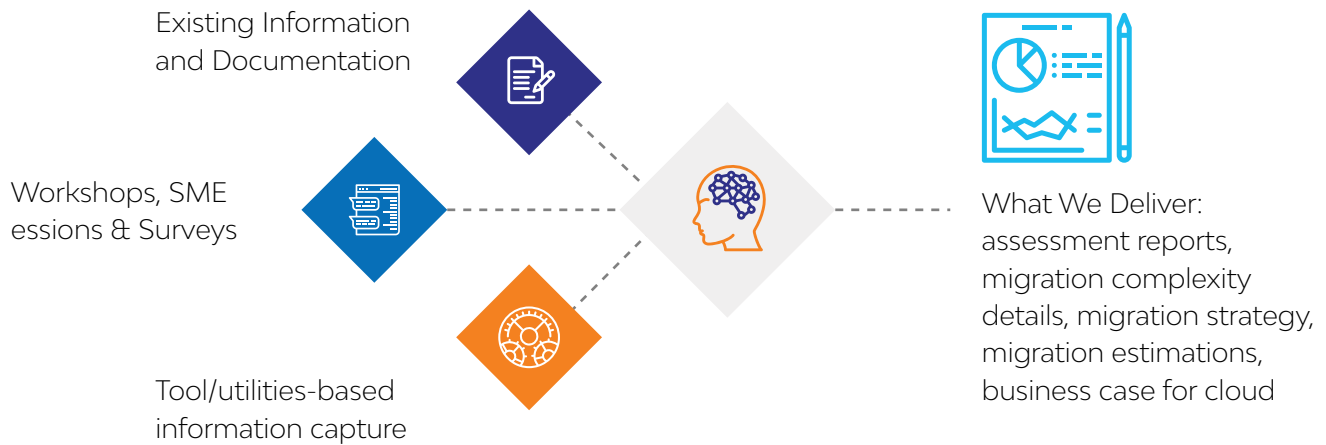
Assess Your Cloud Readiness with LTI's PaaSify - Cloud Re-engineering Assistant

PaaSify addresses an important white space of automated application readiness assessment, reporting and decision support for migrating on-premise applications to a cloud native stage. It also helps enterprises devise an overall right-fit strategy for adopting the cloud.

The assessment helps customers understand the challenges associated with their current application setup and architecture, and accordingly, determine the business value that can be realized through cloud adoption. LTI's tool analyzes the applications across more than **70 criteria** to report incompatibilities and makes suitable recommendations for **re-factoring and re-architecting** the code, module or project.



PaaSify: At a Glance



How PaaSify Operates

Extract Code Files

Extract code files to analyze from code repository	GIT repository SVN repository TFS repository NTFS file drive
Crawl Contents	Crawl through the contents of relevant code files XML file crawler Text file crawler
Analyze Parameters	Validate code against 70+ criteria Session state analyzer Third-party dependency analyzer Authentication analyzer Database connection analyzer File usage analyzer Logs usage analyzer
Report	Create reports to summarize analysis results, like effort sizing, business impact, migration complexity Provide cloud readiness score highlighting the impact of business factors Generate code quality insights at portfolio level Technical report with source code level 12-factor compatibility details, alongside cloud remediation
Interpret and Recommend by LTI's Cloud SMEs	Analyze findings from detailed reports and dashboards Derive PaaS migration readiness index based on findings Recommend best-fit cloud platform and related migration path Provide a transformation roadmap with estimation and timelines



Key Features

- Pluggable code analysis of applications from the preferred repository, including Git, SVN, Microsoft TFS or File Drive
- Pluggable architecture for adding new assessment criteria
- Custom configuration of analysis parameters (via XML)
- Compatibility analysis across various parameters, including:
 - Session management for stateless cloud native applications
 - Hard-coded links and parameters
 - Third-party utilities, frameworks and connections
 - File I/O and logging, given the lack of a file system in cloud native
 - Authentication for new applications to be claim aware
 - Database constructs and features as there might be some non-compatible services like triggers, SQL agent and SSIS packages

Business Benefits

- Automated migration assessment for cloud enablement, saving 70% of analysis time
- Enhanced productivity for analysis of voluminous applications
- Migration time and effort reduced by almost 60%, effectively increasing the speed of cloud native migration
- Enables apt cloud strategy adoption and decision making in large digital transformation initiatives through focused business cases
- Seamless operations with minimal dependency on SMEs
- Application categorization for re-factoring and re-architecting in cloud PaaS and architecture remediation
- Generate realistic estimates of time and resources to modernize applications for running in the cloud, including flexible ways of planning project-based refactoring work
- Provide guidance for each code recommendation down to the block level, and share quick references for refactoring the same

Why LTI?

Be a Cloud First organization

Our comprehensive cloud strategy has enabled our clients to unleash the true potential of cloud in line with their business goals

Assured dollar savings

Partner of choice for clients' digital transformation journey, enabling savings worth millions of dollars through cloud adoption





Best-in-class cloud experts

Right blend of cloud expertise and capabilities in architecting solutions on cloud native platforms, coupled with a strong domain proficiency, provides best-in-class, industry-specific solutions blueprints

Best-in-class innovative tools and platforms

Solution ecosystems and proprietary tools and platforms ensure 30% reduction in technical debt, 40% increase in productivity and 25% reduction in time to market.

LTI's Cloud Migration Approach



Assessment

PaaSify for application portfolio assessment | SME meetings | Survey questions different stakeholders



Planning & Design

Migration options: Re-factor / Re-host Re-architect/ Retire | Architecture patterns/considerations: Network, identity, app security design | POC & pilot testing | Migration strategy, plan, estimation and roadmap



Migrate

DevOps tools | DevOps, scripts, and configuration and automation | Migration | Rollout and feedback



Validate & Support

Validate business functionality | Quality check and automation tests | User training and support services | Monitoring, regular reporting of migrated servers, DB, and maintenance

LTI (NSE: LTI, BSE: 540005) is a global technology consulting and digital solutions Company helping more than 300 clients succeed in a converging world. With operations in 30 countries, we go the extra mile for our clients and accelerate their digital transformation with LTI's Mosaic platform enabling their mobile, social, analytics, IoT and cloud journeys. Founded in 1997 as a subsidiary of Larsen & Toubro Limited, our unique heritage gives us unrivaled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 25,000 LTIites enable our clients to improve the effectiveness of their business and technology operations, and deliver value to their customers, employees and shareholders. Find more at www.Ltinfotech.com or follow us at @LTI_Global