

Accelerating application modernization to AWS, and on AWS



Challenges

Modernizing complex applications is risky & hard

The biggest challenge when moving to cloud is the complexity of custom-built applications. They may be made of multiple layers and technologies and tens of thousands of objects, result of years of work by multiple teams of developers no longer around to answer questions. There may not be a map of the actual application architecture, or information how to change it inside to modernize it or add new features.

The success of the journey to cloud hinges on the accuracy of this type of software intelligence. Simply relying on interviews, code reviews, scant documentation can easily lead to months of delay of botched projects.

Even applications already lifted-and-shifted to cloud require modernization to take fully advantage of cloud benefits.



CAST Highlight & CAST Imaging

Migrate and modernize to AWS, and on AWS, easier, safer, and faster

CAST Highlight can analyze hundreds of applications in a week and pinpoint what needs to change in the source code for it to run on AWS, the remediation effort required, and the AWS native services best suited to take advantage of. Based on this intelligence, as well as qualitative data, its Portfolio Advisor recommends the best course for each application – Rehost, Refactor, Rearchitect, Rebuild, Retire.

For those applications requiring Rearchitecting or heavy Refactoring, **CAST Imaging** automatically reverse-engineers their actual architecture and produces interactive maps helping architects and developers navigate faster through modernization steps, such as re-platforming, re-architecting, framework replacement, sub-system or database migration, or breaking monoliths into micro-services.

After the initial assessment, **CAST Highlight** and **CAST Imaging** act as a continuous knowledge base, tracking progress and changes throughout the lifecycle of the applications and its permanent modernization on cloud.

Benefits

Use CAST to assess quickly your application portfolio for migration & modernization, blueprint complex applications for faster and safer re-architecting, constitute a knowledge base throughout the lifecycle of applications.



Rapidly pinpoint & fix migration blockers

Auto-detect all blockers in the code that slow down migration, with estimated effort and guidance on how to fix them.



Build migration roadmaps in days vs weeks

Automatically build an objective roadmap across an entire application portfolio. Segment and prioritize each application into the Gartner 5Rs.



Automatically identify best suited AWS services

Get recommendations on specific AWS services that are good candidates for an application to utilize once migrated to AWS.



Re-factor easier, safer and faster

Get interactive and accurate maps to navigate in complex application changes and avoid wrong turns during the modernization journey.

Easier control over migration and modernization, on virtually any technology

Establish a detailed knowledge base to track progress and changes throughout the journey-to-cloud and lifecycle of the applications.

Use on virtually any application, regardless of age and technologies thanks to CAST broad technology coverage: mainframe, Java, .NET, C# and many more.

CAST enables faster and safer application modernization to AWS

CAST Highlight is a SaaS product running on AWS. All source code analysis occurs on customer premises, without touching production, by using a simple desktop agent that scans application source code or integrates within CI/CD environments for automated analysis. Application owners fill out a survey answering a few questions to incorporate qualitative business context about each application. Analysis results are then uploaded into a private, secure cloud to automatically create migration roadmaps and identify how to remove cloud migration blockers for each application.

CAST Imaging takes all artefacts that make up a custom-built application – database scripts, source code, configuration files – then analyzes all components to reverse-engineer their dependencies, and generates interactive maps of the actual as-is architecture. Software architects and developers can literally see what exactly they are changing as they break up monoliths, design microservices, swap databases, replace frameworks.

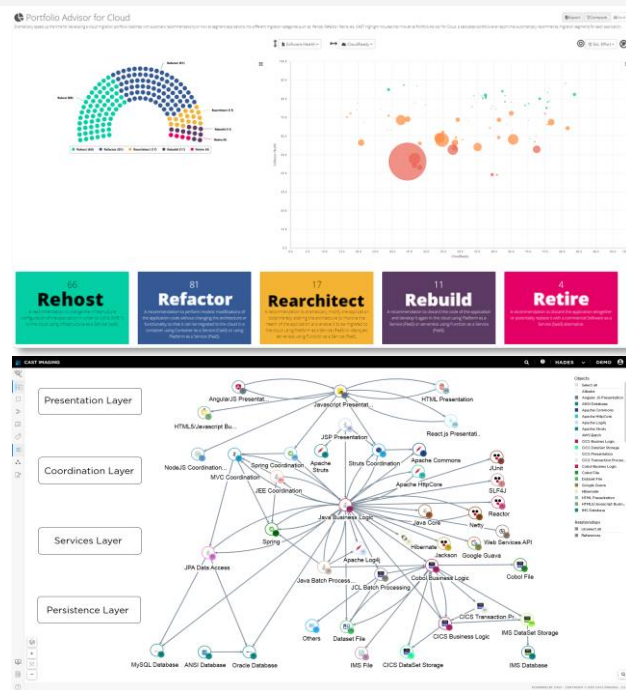
Features

CAST Highlight

Objective migration roadmaps of entire application portfolios – segment and prioritize hundreds of applications into the Gartner 5Rs in a week. Automatic detection of migration blockers and effort estimates to remove them – discover specific source code patterns slowing down migration and preventing containerization. Faster benefits from AWS migration – identification of patterns that make migration easier and best-suited AWS native services for an application to utilize once migrated.

CAST Imaging

Intuitive navigation of all application layers, components and their dependencies – zooming in and out, down to the line of code. Precise analysis of data access, API interactions, transactions flows. Enables architects and developers to perform key modernization steps safer and faster – re-platforming, re-architecting, framework replacement, sub-system or database migration, breaking monoliths into services.



CAST Highlight and **CAST Imaging** understand 50+ programming languages, 12+ database types, 100s of frameworks

Full technology coverage lists for [CAST Highlight](#) and [CAST Imaging](#).

Case Study: Global Manufacturer

Challenges

The CIO of a large manufacturer embarked on moving their diverse, multi-technology portfolio of over 2,000 custom-built applications to AWS. They couldn't figure out **where to start**, how to find out quickly which applications needed to change, and how much effort is required.

Solution

Their SI partner initially focused on a prioritized list of **633 key applications** targeted for AWS and used **CAST Highlight** to rapidly analyze the applications' source code, speed up the assessment process, and ensure high accuracy.

Results

With **CAST Highlight**, the SI partner assessed all 633 applications in **less than 12 weeks**, meeting the client's objectives. Thus, in just 3 months, the complete, detailed AWS migration roadmap was in place. The manufacturer could begin the migration and start cutting data center costs.

Get started with CAST for AWS

Visit castsoftware.com/faster-modernization-and-cloud-migration to purchase or start a Free Trial today.

