



Assessing Risk and Complexity in Mainframe and Midrange Applications

Application modernization requires the development of well-informed strategies.


Inadequate data-driven insights can have long-lasting repercussions:




Misinformed Decisions



Wasted Resources



Increased Risk



Hindered Innovation

But what if you could mitigate these risks to **scope, budget, and plan** for both maintaining and modernizing legacy applications—for free—within minutes?

With AveriSource Scan as the starting point for your application modernization journey, your organization can:

- ✓ Document essential statistics
- ✓ Assess missing and unreferenced files
- ✓ Receive a complimentary risk assessment tailored to your application

AveriSource Scan examines your provided codebase to detect languages by file types, executing a deeper analysis and risk assessment for:

COBOL
JCL
Assembler
RPG

AveriSource Scan runs on Windows and can be deployed in an air-gapped environment.

Every organization's modernization journey is **different**, but the fundamental risks to consider remain the **same**.

	RISK	SCAN
 Business logic and program flow	Unwieldy decision points and branches in your codebase environment complicate the analysis and documentation process.	Categorizes keywords in the code that indicate decision points, computation, and special operations that are more complex and vary across languages.
 Codebase size	A large codebase environment with numerous, poorly connected modules and low-quality code can disrupt business continuity and contain vulnerabilities.	Calculates the number of lines of code to help determine your application modernization timeline.
 Programming language modernization	Applications comprised of less common legacy languages require additional tools or skillsets that may need to be learned or hired.	Captures and documents important statistics about your application and technology mix, including COBOL, RPG, JCL, and Assembler code.
 Persistence technology	Environments utilizing hierarchical or networked databases require more effort to maintain, enhance, and modernize.	Unravels your existing data architecture to help you gain an understanding of resource planning and application modernization priorities.
 Missing file references	Omitted source code and file references obscure thorough and accurate analysis of an application's functionality.	Tallies files with missing code references to give your team context and insights into the completeness of your codebase.
 Unreferenced files	Unreferenced files can cause delays in analyzing an application's functionality and can yield incorrect results if files are not present.	Assesses the number of unreferenced files to save time and improve accuracy in reporting and planning.
 Internal documentation	Insufficient or unclear comments within analyzed code lead to development and analyst team delays and confusion, increasing the effort required for maintenance or transformation.	Calculates the percentage of source code with comments to aid in codebase audits and documentation.
 User interfaces	An application that uses multiple screens or interfaces increases complexity and potentially effort to modernization.	Detects user interfaces in the application that may need additional effort to be modernized.
 Reporting	Detects use of reports utilizing non-native or third-party platforms which require additional analysis and user knowledge, increasing the time to modernize .	Categorizes the reporting functionality of applications using keywords in the code to determine modernization efforts.

Once all the risk factors are analyzed, AveriSource Scan assigns an **overall risk category** to inform modernization planning.

LOW RISK

The application is a good candidate for modernization. Choose the modernization approach that aligns best with the organization's skillsets and business goals.

MEDIUM RISK

The application may be moderately complex to modernize. You may need to address some issues in the code before modernizing. There is some flexibility in choosing the modernization approach.

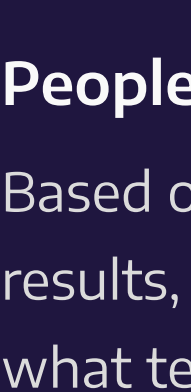
HIGH RISK

The application may be challenging to modernize. Address existing issues with the code before proceeding. Allocate extra time in the modernization project and carefully consider the best modernization approach.

The #1 modernization challenge for senior IT decision-makers is creating a plan for application rationalization.

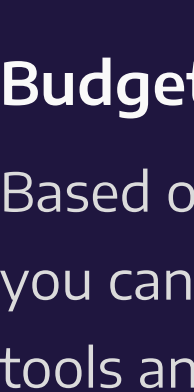
The Path to Digital Transformation: Where Leaders Stand in 2023

AveriSource Scan helps you quickly and accurately **scope, budget, and plan** for both maintaining and modernizing legacy applications.



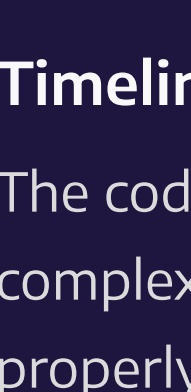
People

Based on the technology mix results, you can determine what technical pros you'll need to upskill or hire.



Budget

Based on the overall risk category, you can determine what technical tools and skillset resources needed for successful modernization.



Timeline

The codebase assessment and complexity provided will aid in properly scoping and staffing projects.

Summary

Key Statistics View File Analysis →

Languages	Files Received	Missing Files	Unreferenced Files	Lines of Code
8	77	99	52	172,111

Primary Risk Factors View All Risk Factors →

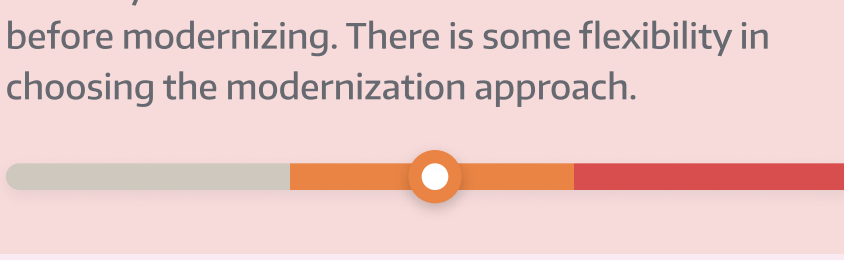
99 Missing Files	8 Languages	17,111 Lines of Code	Moderate Logic & Flow	17% Comments
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Insights

Overall Modernization Risk MEDIUM

Based on the risk factors below, your assessed source code has been assigned an overall **medium risk**. This codebase may be moderately complex to modernize.

You may need to address some issues in the code before modernizing. There is some flexibility in choosing the modernization approach.



Manual Effort 5000 HRS

5000 hours are estimated to manually analyze your codebase. The AveriSource Platform can shorten that time and help your organization plan the best modernization strategy.

Scan your codebase environment to assess risk and complexity as the first step in your modernization journey.

[Get Started for Free](#)
[Download Scan ↓](#)

The AveriSource Platform™ can help successfully modernize your applications, no matter the risk level. **Scan**, **Inventory**, **Discover**, **Analyze**, and **Transform** your entire legacy estate with the full suite of AveriSource packages.

[Visit Website ↗](#)
[Request Demo ↗](#)

Our mission is to eliminate the **time, risk, and cost constraints** of modernization—all in one single platform.

2 Billion+

LINES ANALYZED

30 Years

IN BUSINESS

250+

ENTERPRISE CUSTOMERS


1 Goal

APP MODERNIZATION



AveriSource helps customers reduce cloud and application modernization costs and improve performance, agility, and resiliency.

[Read Press Release →](#)



Public cloud customers' buying journey, so we've made AveriSource Scan available on the AWS Marketplace.

[View in AWS Marketplace →](#)