averiSource PLATFORM

AI-Powered, Data-Driven Mainframe and Midrange Application Modernization

Your approach to application modernization depends on your legacy landscape—it's not a one-size-fits-all solution.

Each strategy has different outcomes and ROI, so before prioritizing which systems to modernize, several factors must be taken into consideration.

Business priorities

What are your organization's strategic goals in terms of customer experience, cost reduction, or security enhancements?

Compatibility and integration

Which applications will seamlessly integrate with the other systems and technologies within your organization?

Technical debt

Which applications utilize outdated technology, lack documentation, or require frequent maintenance?

Resource availability

What resources, skillsets, or budget will be required to ensure a successful modernization journey?

Criticality

What applications are operationally essential for business continuity and performance?

Risk assessment

How will your organization account for potential downtime, data migration challenges, and user adoption difficulties?

Cost-benefit analysis

What potential ROI and long-term cost savings would be gained by modernizing each application?

Vendor support

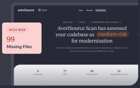
Are there legacy applications with limited or discontinued support that should be prioritized?

What if you could plan and deliver the optimal modernization journey—all within one platform?

With five integrated packages tailored to your needs, the AveriSource Platform™ can help your organization **assess** your entire legacy application landscape, **rationalize** the applications to modernize, and **execute** the right modernization strategy.

Scan

Evaluate the legacy codebase and determine risk.

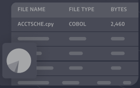


HIGH RISK
99
Missing Files

AveriSource Scan has assessed your codebase as medium risk for modernization

Inventory

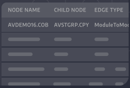
Assess the contents of the legacy estate.



FILE NAME	FILE TYPE	BYTES
ACCTSCHE.cpy	COBOL	2,460

Discover

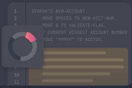
Unravel application architecture and data handling.



NODE NAME	CHILD NODE	EDGE TYPE
AVDEMO16.COB	AVSTGRP.CPY	ModuleToMod

Analyze

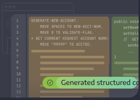
Examine execution paths and business rules in-depth.



```
GENERATE-NEW-ACCOUNT.
    MOVE SPACES TO NEW-ACCT-NUM.
    MOVE 0 TO VALIDATE-FLAG.
  * CURRENT HIGHEST ACCOUNT NUMBER
    MOVE "99999" TO ACCTDO.
```

Transform

Leverage AI to modernize legacy code.



```
GENERATE-NEW-ACCOUNT.
    MOVE SPACES TO NEW-ACCT-NUM.
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  * SET CURRENT HIGHEST ACCOUNT NUMB
    MOVE "99999" TO ACCTDO.
```

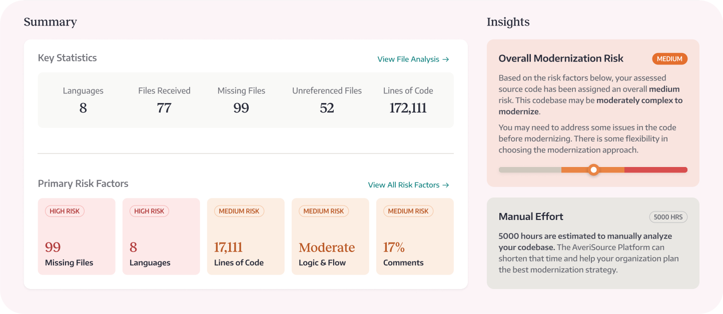
Generated structured co

SCAN

AveriSource Scan is the starting point for your application modernization journey.

This **freemium product** provides file analysis, assesses risk factors, and assigns an overall risk category to inform modernization planning.

- Business Logic and Program Flow
- Codebase Size
- Programming Language Modernization
- Persistence Technology
- Missing File References
- Unreferenced Files
- Internal Documentation
- User Interfaces
- Reporting



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 →

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

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.

AveriSource Scan runs on Windows and can be deployed in an air-gapped environment, and supports COBOL, JCL, Assembler, and RPG code.

Want to see exactly what you'll get in AveriSource Scan?

Visit Webpage ↗

View Sample Report

The AveriSource Platform can be utilized at any stage of the application modernization journey, with multiple modernization patterns.

Reengineer	**Rewrite** Accelerated Rewrite™ into a modern application	**BEST FOR TRANSFORM**
Retain	**Maintain application** Continue regular application maintenance or outsource	**BEST FOR DISCOVER**
	Optimize application Modernization in place (mainframe, distributed or cloud)	**BEST FOR ANALYZE**
Replicate	**Replicate and leverage legacy data** Make legacy data available to cloud and hybrid applications	**BEST FOR DISCOVER**
Repurchase	**Purchase new** Mine business rules to map application functionality to COTS	**BEST FOR ANALYZE**
Retire	**Stop usage** Decommission legacy application that is no longer needed	**BEST FOR DISCOVER**
Rehost	**Lift and shift** Redeploy the application components to other infrastructure	
Refactor	**Translate** Convert legacy programming language to a modern target language	
Replatform	**Lift and reshape** Minimally optimize application to redeploy to new infrastructure	

Whether you're interested in a full, AI-powered transformation or simply documenting existing functionality, the AveriSource Platform is tailored to and optimized for the following modernization strategies.

TRANSFORM

BEST FOR TRANSFORM

Reengineer

Rewrite

ⓘ Rewrite to true object-oriented code, fully or in parts, to leverage modern architectures

☝ Legacy codebase needs to be more resilient, standards-compliant, and maintainable and justifies the benefits of new technologies

√ Shortens the time to a new application by documenting existing business rules, relationships, and data lineage, then leverages AI to modernize legacy code and reduce manual efforts

INVENTORY

DISCOVER

ANALYZE

BEST FOR ANALYZE BEST FOR DISCOVER

Retain

Maintain or optimize

ⓘ Reorganize and optimize the existing codebase to improve its structure, performance, or maintainability without altering its external behavior

☝ Application supports the business function, but has technical debt or new requirements

√ Identifies application dependencies, redundant, or dead code to help expedite code consolidation, then documents business rules and application functionality for audit, regulatory, onboarding, and maintainability purposes

BEST FOR DISCOVER

Replicate

Replicate and leverage legacy data

ⓘ Copy mainframe data and make it accessible to cloud applications

☝ Retained application is the system of record, and distributed or cloud applications require the sharing of legacy data

√ Expedites analysis of data access patterns, isolates functional business application data base tables or files, and identifies unused fields

BEST FOR ANALYZE

Repurchase

Purchase new

ⓘ Replace the former application while considering new requirements and needs

☝ Application no longer fits business needs or performs industry-standard functions without the need for calculations or processing considered intellectual property

√ Guides the tailoring and configuration of commercial off-the-shelf or SaaS platforms with its input-output analysis and business rules extraction capabilities

BEST FOR DISCOVER

Retire

Stop usage

- ⓘ Decommission a legacy application that is no longer needed
- ☝ Application functionality has been replaced by other systems or maintenance costs outweigh its value
- √ Provides understanding of the workflows required for archival reporting, aids in identifying data dependencies, and documents functionality for audit, regulatory, and validation purposes

Depending upon your application modernization goals, the below strategies may also be suited to your organization. The AveriSource team of experts can help you determine your optimal, individualized path to modernization.

OTHER

Rehost

Lift and shift

- ⓘ Redeploy the application components to other infrastructure (physical, virtual, or cloud) with little to no modification of its code, features, or functionality
- ☝ Less complex applications with a stable architecture that do not require significant code changes

Refactor

Translate

- ⓘ Automatically convert the legacy programming language to a modern target language to enable support from a larger resource market and integrate modern technologies
- ☝ Application still supports business requirements, and the priority is to transition from the legacy application environment and programming languages

Replatform

Lift and reshape

- ⓘ Minimally optimize the application to redeploy to new infrastructure to leverage advanced platform capabilities and benefits
- Stable, reliable mainframe applications that deliver value, but could benefit from a modern infrastructure

For a full list of AveriSource Platform capabilities as they relate to the modernization strategies above, we invite you to download our white paper.

Download White Paper

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

Get Started for Free

Inventory, Discover, Analyze, & Transform your entire legacy estate with the full suite of AveriSource packages.

Request Demo

See how hundreds of companies like yours have gone from code chaos to clarity using the AveriSource Platform.

View Case Studies

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

2 Billion+	30 Years	250+	1 Goal
LINES ANALYZED	IN BUSINESS	ENTERPRISE CUSTOMERS	APP MODERNIZATION

aws
PARTNER
Migration &
Modernization
Services

AveriSource helps customers embrace cloud and application transformation to reduce costs and improve performance, agility, and resiliency.

Read Press Release →

aws **Available in AWS Marketplace**

Public cloud marketplaces are often an essential part of enterprise customers' buying journey, so we've made AveriSource Scan available on the AWS Marketplace.

View in AWS Marketplace →

aVeriSource

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