



The Application Modernization Checklist

A comprehensive guide to planning your migration with GAPVelocity AI

Six phases from project framing to production — the what, the why and how AI accelerates each step

ROADMAP

Six phases to a predictable migration

Each phase builds on the last — and each is accelerated by a purpose-built GAPVelocity AI capability.

01	Project framing & strategic alignment	Migration Blueprint
02	Understanding the environment	ByteInsight
03	Application functionality assessment	ByteInsight
04	Architecture deep dive	VELO · Architect Agent
05	Test cases & quality assurance	VELO · Quality Agent
06	Technical & end-user requirements	VB6 AI Migrator / VELO

Project framing & strategic alignment

01

Setting the foundation for predictable success

The earliest phase establishes a shared vision and the boundaries of the engagement — scope, effort, roles and responsibilities.

WHAT IT IS

Introduce the migration team and methodology, review the goals for the migration and outline the end-to-end process.

WHY IT MATTERS

Misalignment on expectations is the leading cause of migration failure. Clear points of contact prevent scope creep.

GAPVELOCITY AI VALUE

We lead with the Migration Blueprint — a deep-dive assessment that delivers a clear picture of scope, automation potential, risks and a fixed-cost proposal.

Understanding the environment

02

Mapping the technical landscape

Before touching code, understand the infrastructure that supports it — hardware, platforms and how they connect.

WHAT IT IS

Evaluate network performance, threats, communication schemas, protocols and system components.

WHY IT MATTERS

Legacy apps often rely on undocumented, deeply intertwined environmental dependencies that can break a modern deployment if ignored.

GAPVELOCITY AI VALUE

ByteInsight, our free static code-analysis tool, builds a complete source inventory — every file, third-party component and the full technology footprint.

Application functionality assessment

03

Auditing the existing codebase

Document a detailed view of the application — its functionality, flow and dependencies with other systems.

WHAT IT IS

Gather size and usage metrics and analyze the source: lines of code, number of statements and number of components.

WHY IT MATTERS

Knowing the precise size and usage of features lets you accurately scope the effort and pinpoint automation opportunities.

GAPVELOCITY AI VALUE

ByteInsight generates a source inventory and lines-of-code breakdown by language to automatically determine application size and the right modernization path.

Architecture deep dive

04

Designing the target environment

Moving off legacy requires a strategic blueprint for the future state — not a 1:1 port.

WHAT IT IS

Deep analysis of manuals, network designs, configuration, security profiles, databases, servers and deployment processes.

WHY IT MATTERS

A successful migration adapts the application to thrive in a modern cloud environment, not merely replicate the old one.

GAPVELOCITY AI VALUE

VELO deploys an Architect Agent that proposes the optimal modern architecture, including Entity Framework Core mapping and an Azure deployment strategy.

Test cases & quality assurance

05

Guaranteeing functional equivalence

Testing is not an afterthought. A robust strategy defines test cases and the QA structure up front.

WHAT IT IS

Plan QA deadlines, duration and effort, define application test cases and identify the right testing tools.

WHY IT MATTERS

Maintaining 100% functional equivalence prevents regression bugs and keeps critical business logic intact.

GAPVELOCITY AI VALUE

The VELO Quality Agent validates output against original behavior, generates automated unit tests and verifies parity — accelerating the whole phase.

Technical & end-user requirements

06

Aligning technology with business needs

A technical upgrade only succeeds if it serves the people using it.

WHAT IT IS

Document technical, performance and coding-standard requirements, and consolidate end-user feedback into functional requirements.

WHY IT MATTERS

Capturing end-user needs keeps critical workflows intact while removing the friction of the legacy platform.

GAPVELOCITY AI VALUE

Whether via the VB6 AI Migrator for deterministic VB6-to-.NET conversion or VELO for agentic migration, output targets the modern Microsoft stack your team already runs.

THE GAPVELOCITY AI ADVANTAGE

Fast, predictable, secure AI modernization

Three decades of legacy-modernization expertise combined with today's AI to transform aging desktop and line-of-business applications.

35+

Years of AI & modernization expertise

Billions

Of lines of code modernized

600+

GAP engineers behind delivery

The power of Hybrid AI

Engineering-ready code that compiles and runs — delivered with predictable timelines and a fixed cost.

The full delivery spectrum

From self-service licensing to fully managed, production-ready modernization — backed by 600+ GAP engineers.

BEGIN YOUR MODERNIZATION JOURNEY

Stop managing legacy risk. Start powering growth.

You can't deal with what you have until you know what you have. Take the first step toward a secure, cloud-native architecture today.



Run [ByteInsight](#) on your legacy application

A free, privacy-safe scan that inventories your codebase and sizes the effort.



Book a free codebase analysis call

Review the findings with our migration engineers and map your path.



Request a Forward-Deployed Engineer

Embed GAPVelocity AI expertise directly alongside your team.



**Know what you have.
Then modernize with confidence.**



gapvelocity.ai

Book a free codebase analysis call with our migration engineers to begin your checklist.