

IBM Bob: your partner across the software development lifecycle

As development productivity increases, coordinating change across teams and systems becomes the constraint. Bob is built for that reality.



Empower teams

Works across developer environments with AI embedded into workflows



Shift-left security

Integrates security, policy enforcement & validation earlier in development



Cost efficiency

Optimizes AI usage through model routing & transparent cost control



Intelligent modernization

Navigates complex systems & modernizes with coordinated execution

IBM Bob is an AI-first development partner designed for enterprise software teams working across complex systems. Rather than focusing on isolated tasks, Bob supports the full software development lifecycle, helping teams move from planning through deployment with structure and control.

Bob understands codebases, interprets intent, and carries work forward across multiple steps, from design to validation. By operating directly within developer environments, Bob enables teams to deliver faster while maintaining the operational rigor required in enterprise settings

Challenges enterprises face in modern development

AI has accelerated code generation, but enterprise software delivery remains constrained by fragmented systems, technical debt, governance requirements, and operational complexity.

Most organizations still coordinate work manually across repositories and tools. As AI adoption scales, this creates growing pressure around operational resiliency and cost control. Without a more coordinated approach, faster code generation alone can increase operational risk rather than improve enterprise outcomes.

How Bob helps

Bob brings structure to AI-driven software delivery by coordinating work across the SDLC instead of accelerating isolated development tasks. Bob helps teams understand systems before changes are made, then carries those changes through with context intact.

As work progresses, Bob continuously validates outputs against enterprise standards through governed workflows, policy enforcement, and automated checks. This reduces rework, improves consistency, and helps teams modernize and deliver software faster without sacrificing control.



IBM Bob

AI-first SDLC orchestration

Bob goes beyond code suggestions to help teams plan work, coordinate changes, validate outcomes, and deliver software with greater consistency and confidence.

By embedding workflows and guardrails directly into development, Bob reduces cognitive overhead and helps teams work more effectively across complex systems. Organizations benefit from fewer rework cycles and more predictable outcomes.

Intelligent modernization at scale

Bob helps organizations modernize enterprise systems across Java, COBOL, RPG, IBM i, HCL, Ansible, and other environments without compromising reliability. Bpb supports refactoring, dependency upgrades, framework migrations, documentation generation.

Teams can better understand unfamiliar systems, reduce reliance on specialized expertise, and modernize more efficiently through coordinated automation and workflow support.

Built-in quality, security, and governance

Bob embeds validation, security, and governance directly into developer workflows so teams can identify issues earlier without slowing delivery. Through IDE-native analysis, intelligent secrets detection, automated PR reviews, and policy enforcement, Bob helps organizations maintain enterprise standards throughout development.

Organizations gain stronger oversight and greater confidence in delivery quality across teams.

Cost-efficient AI operations

Bob helps organizations scale AI-assisted development with predictable costs and greater operational efficiency. Bob uses an intelligent routing layer that automatically selects the most appropriate model for each task based on quality and cost, which reduces unnecessary compute usage.

Combined with caching, local context handling, and transparent usage controls through Bobalytics, organizations gain clearer visibility into AI spend and reduce costs.

Take the next step with IBM Bob

As AI reshapes software development, the challenge for enterprises is no longer generating code faster. It is coordinating delivery across systems, teams, governance, and operations at scale.

Learn how your teams can bring AI into every stage of software development lifecycle:

[Learn more about Bob](#) →

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100%

architecture compliance for
generated components seen
by EY

18x

faster enablement for
developers to understand
and document RPG
applications at MR Williams

Zero

post-deployment defects for
a Java modernization effort
done by Blue Pearl



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