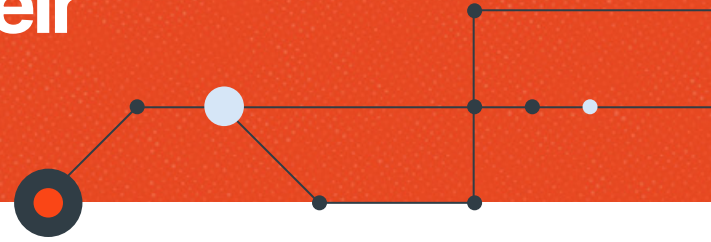


Agentic Performance Testing in UiPath Test Cloud



Push applications to their limits with confidence



Modern applications are under constant pressure.

They span web, mobile, APIs, robots, legacy systems, AI services, and countless third-party integrations. They serve customers, employees, and partners in real time. And expectations keep rising.

Releases move faster. Architecture is growing more distributed. Traffic spikes without warning. Traditional performance testing struggles to keep up. Specialized tools. Isolated experts. Script-heavy workflows. Late-cycle validation.

By the time issues surface, both risk and cost are already high.

Organizations need performance testing that is realistic, scalable, governed, and accessible to the entire QA team, not just performance specialists. UiPath Test Cloud delivers exactly that.

With UiPath Test Cloud, every QA tester can easily repurpose existing functional tests—those that verify “is it working as expected?”—into performance tests that answer “can the system handle the expected load?” This transforms everyday automation into a powerful, scalable way to validate both functionality and resilience under real-world conditions.

It gives all testers a guided, AI-assisted way to design, run, and analyze performance tests, without requiring deep scripting skills or capacity-planning expertise, and this is a game changer.

AI agents define service level objectives, generate realistic load patterns that mirror production conditions, run distributed tests, and surface bottlenecks with clear, actionable insights. Testers stay in control. Governance stays intact.

Agent-driven performance testing with **human oversight**

UiPath Test Cloud delivers agentic performance testing that augments testers across the full lifecycle, planning, generation, execution, analysis, and reporting.

AI agents guide teams through defining objectives, generating scenarios, running distributed load, identifying bottlenecks, and summarizing results. Human testers remain in control; reviewing decisions, setting thresholds, and approving outcomes.

The result: Performance assurance that is proactive, adaptive, and aligned to real business workflows.

Top Use Cases

Continuous performance validation in CI/CD

Modern software delivery requires constant performance assurance. Integrated load, stress, spike, endurance, and scalability testing directly into CI/CD pipelines. Set measurable thresholds. Enforce release gates. Surface regressions early, before they reach production.

Performance validation becomes part of every build; no more last-minute fire drill.

Outcome: Faster validation cycles. Earlier risk detection. Higher release confidence.

Realistic end-to-end business workflow simulation

Today's systems don't operate in isolation, they are connected to downstream and upstream systems.

Test performance across web, mobile, APIs, robots, and legacy systems using real UI and API automations. Simulate authentic user journeys under realistic load, not synthetic traffic patterns.

Outcome: Reliable, business-aligned performance insight. Confidence that mission-critical workflows perform under peak conditions.

Democratized performance testing

Performance testing should not live in a silo.

With agentic guidance functional testers, automation engineers, and QA leads can design and run sophisticated performance tests without advanced scripting expertise.

Performance becomes a shared capability across the organization.

Outcome: Broader coverage. Reduced dependency on specialists. Scalable performance ownership.

Built for realism. Designed for scale. Governed for enterprises.

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UiPath Test Cloud combines:

- UI-based simulation for real-world fidelity
- Serverless cloud agents for elastic scale
- AI-powered lifecycle orchestration
- Enterprise-grade governance and artifact management
- CI/CD and observability integrations

Testing becomes part of a continuous, governed delivery loop, designed for modern DevOps and compliance-driven environments.

Capabilities

Agentic performance lifecycle

AI agents enhance every stage of performance testing from planning and scenario generation to execution, analysis, and reporting while keeping testers in control while accelerating every phase of a performance testing campaign.

Real-world simulation

UI- and API-based automation mirrors authentic user journeys, ensuring realistic performance validation aligned to business workflows.

Elastic, serverless scale

Cloud-based agents execute load, stress, spike, endurance, and chaos tests without the overhead of infrastructure management.

CI/CD integration and release gates

Seamlessly embed performance testing into pipelines with defined thresholds, traceable results, and governed approvals enabling automated quality gates.

Unified platform experience

Design, run, and analyze performance tests within Test Cloud—natively integrated with Studio, Orchestrator, Test Manager, and leading observability tools.

Custom AI agents

Use Agent Builder to create tailored agents aligned to your architecture, SLAs, and governance requirements.

Customer Impact

Organizations can achieve:

- Accelerated performance validation cycles
- Broader and deeper performance coverage
- Earlier identification of bottlenecks
- Reduced dependency on specialized performance skills
- Greater release confidence and stakeholder visibility

Why Agentic Performance Testing in UiPath Test Cloud?

Modern systems require continuous performance assurance. UiPath Test Cloud delivers it through an agentic lifecycle, realistic UI-based simulation, serverless elastic scale, and built-in CI/CD governance with defined release gates. Deep orchestration across robots, APIs, and business workflows ensure performance validation mirrors real business operations, while centralized dashboards, artifacts, and audit trails support enterprise oversight.

The result: performance testing that is accessible to every tester, governed enterprise standards and aligned with real world performance demands.

Learn more about Agentic Performance Testing

UiPath