

Agentic Browser Testing

Technical Overview

by *iSoftStone*

AI-Powered Enterprise Test Automation on Playwright

Playwright-Native

Multi-Agent Architecture

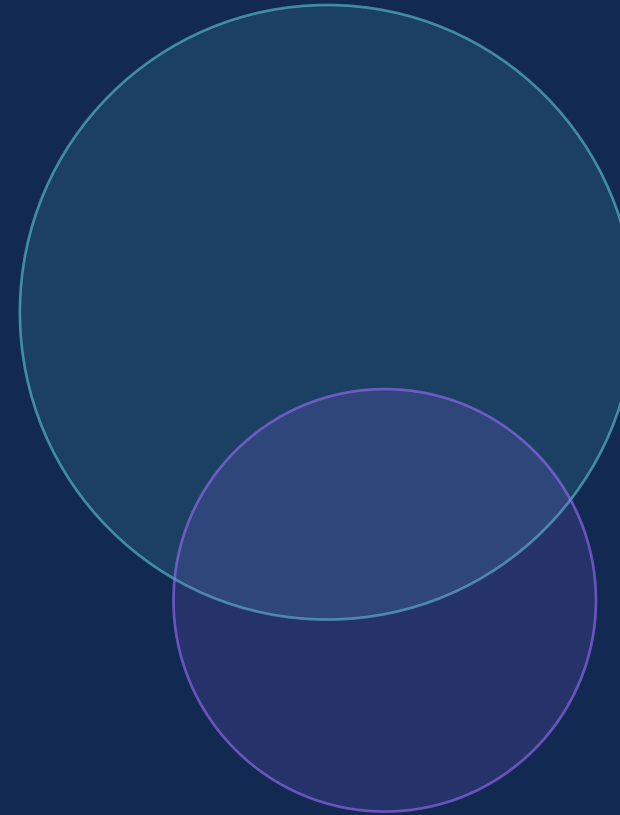
Claude Opus Reasoning

VS Code MCP

CI/CD Ready

Enterprise Reporting

Available on Microsoft Azure Marketplace



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CAPABILITIES



Test Plan Generation

AI auto-generates test plans from natural language requirements



Test Execution

Orchestrates 20–50+ test cases across browsers & environments



Self-Healing Agent

Diagnoses failing tests and auto-repairs using AI analysis



Data-Driven Testing

CSV-based parameterized scenarios for comprehensive coverage



Cross-Browser

Unified suite: Chromium, Firefox, WebKit



Reporting & Analytics

Allure reports with video, trace files & AI gap recommendations

TECHNICAL FEATURES

- ▶ VS Code MCP integration for native IDE test authoring
- ▶ Claude Opus reasoning engine for generation & repair
- ▶ Playwright-native framework — Microsoft's open-source test engine
- ▶ Multi-agent system: Planner, Healer, and Execution agents
- ▶ CSV-based parameterized data-driven testing
- ▶ Allure reports with video recordings & trace files
- ▶ CI/CD pipelines: GitHub Actions, Azure Pipelines, Jenkins

DEPLOYMENT & SECURITY

- ▶ Deploys into your own Azure subscription
- ▶ VS Code authentication via Entra ID
- ▶ Azure RBAC for team-level access control
- ▶ Tenant-scoped deployments — data never leaves your environment
- ▶ Node.js Playwright runtime on customer Azure instance



Your test data stays inside your Azure tenant. Full compliance built in.



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