

Spec2TestAI

Local Execution Agent

Installation & Setup Guide

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About this guide

This guide walks your QA team through installing the Spec2TestAI local execution agent using the new double-click installer. The agent runs AI-driven test cases against applications behind your corporate firewall, on staging, or on localhost — with no inbound firewall rules, no VPN, and no AI provider key to manage.

1. What is the Local Execution Agent?

The Spec2TestAI agent is a lightweight program that runs on any machine in your network. It connects to the Spec2TestAI cloud, picks up test execution jobs, launches a local browser, and executes your test cases using AI vision — the same AI that reads the screen like a human tester and interacts with your application.

How it works

- Your team triggers a test execution from the Spec2TestAI dashboard.
- The platform creates individual work items (one per test case) in the cloud.
- The agent polls for work every few seconds using outbound HTTPS.
- When it finds work, the agent claims a test case, launches a local browser, and executes each step with AI vision.
- Screenshots are captured at each step and uploaded to secure cloud storage.
- Results — pass/fail, AI reasoning, failure triage, and evidence screenshots — are posted back for your team to review.

Key point: all communication is outbound

The agent only makes outbound HTTPS calls to the Spec2TestAI cloud. No inbound ports, no firewall rules, no VPN tunnels, no IT tickets. This is the same model used by GitHub Actions self-hosted runners and Azure DevOps agents.

What your tests get

This version of the agent includes the full Spec2TestAI execution engine:

- **Self-healing execution:** when a step fails, the engine diagnoses, adapts, retries, and proposes a one-click fix — without ever weakening an assertion.
- **Automated failure triage:** every failure is classified — application defect, test defect, environment, or data — with evidence and a copyable defect report.
- **Autonomous Explorer:** point it at a URL and it probes your app for defects on its own, turning each finding into a runnable test case.
- **Coordinate-click resiliency & self-healing memory:** robust element resolution that adapts as your UI changes.

2. Prerequisites

Before installing, make sure the target machine has:

Requirement	Details
Node.js 20 or later	The installer checks for this and opens the download page if it is missing. Verify manually with: <code>node --version</code>
Internet access (outbound HTTPS)	The machine must reach the Spec2TestAI API over HTTPS. That is the only external endpoint required.
~500 MB disk space	For the agent, the private browser (downloaded automatically on first install), and temporary screenshots.
~1 GB RAM available	Each concurrent test case uses roughly 500 MB (one browser instance).

No AI key required

You do NOT need an OpenAI, Azure, or any other AI provider key. The Spec2TestAI platform performs all AI vision analysis server-side using a managed key. Nothing sensitive is stored on the agent machine, and there is no provider to choose or configure.

Supported operating systems

Windows 10/11 and macOS 12 or later. (Linux is supported for advanced/CI use via the command line — contact support for guidance.) The private browser is downloaded automatically for your platform.

3. What You Received

Your Spec2TestAI administrator sent you two files by email:

File	Purpose
Spec2TestAI-Agent-Setup.zip	The agent installer. Contains everything needed and the double-click setup scripts.
Installation Guide (this document)	Step-by-step setup and verification instructions.

Missing files?

If either file did not arrive, contact your Spec2TestAI administrator or email support@agileilabs.com.

4. Install on Windows

1. **Unzip the package.** Right-click Spec2TestAI-Agent-Setup.zip and choose "Extract All". Pick a permanent location such as C:\Spec2TestAI-Agent (avoid the Downloads folder).
2. **Run the installer.** Open the extracted folder and double-click Install-Spec2TestAI.bat.
3. **Clear the SmartScreen prompt (first time only).** If Windows shows "Windows protected your PC", click **More info** then **Run anyway**. This appears because the script is newly downloaded, not because anything is wrong.
4. **Wait for components to install.** The window checks for Node.js, then downloads a private browser. The first run takes a few minutes.
5. **Register the machine.** When prompted, enter your **Organization ID** (provided by your administrator) and your **email address**. The agent registers automatically.
6. **Done.** You will see "Setup complete!". To run tests, double-click Start-Spec2TestAI.bat.

5. Install on macOS

1. **Unzip the package.** Double-click Spec2TestAI-Agent-Setup.zip in Finder. Move the resulting folder somewhere permanent, such as your Applications or home folder.
2. **Run the installer.** Double-click install.command.
3. **Clear Gatekeeper (first time only).** If macOS says the file "cannot be opened because it is from an unidentified developer", right-click install.command, choose **Open**, then **Open** again in the dialog. (Required once per script.)
4. **Wait, then register.** Components download on first run; then enter your **Organization ID** and **email** when prompted.

5. **Done.** To run tests, double-click `start.command`.

Tip

Keep the agent folder in a stable location. If you move it after installing, run the install script once more from the new location.

6. Running and Stopping the Agent

To start running tests, double-click `Start-Spec2TestAI.bat` (Windows) or `start.command` (Mac). A window opens and the agent begins polling for work. **Leave this window open while you want tests to run.**

To stop the agent, press **Ctrl+C** in that window, or simply close it.

You only run the install script once per machine. After that, the start script is all you need day to day.

7. Verify Your Setup

A. Confirm the agent appears in the dashboard

1. Log in to the Spec2TestAI dashboard.
2. Open the **Agents** page from the left sidebar.
3. Confirm your machine is listed, with a recent heartbeat and an "online" status while the start window is open.

B. Run a test through the agent

4. With the start window running, trigger a test execution from **New Execution** (choose local execution).
5. Watch the agent window — you will see it claim the work, launch the browser, and execute steps.
6. In the dashboard, open **Execution Runs** to review results, AI reasoning, and evidence screenshots.

8. Keeping the Agent Running

Choose the option that matches how you intend to use the agent:

Option	How	Best for
On demand	Double-click the start script when you want tests to run; close the window when done.	Occasional or interactive testing on a laptop.
During the workday	Start it in the morning, leave the window open, close it when you leave.	A shared QA workstation.
Always on	Run on a dedicated machine or build server using a process manager (e.g. pm2) or a service wrapper so it survives reboots. Contact support for a setup script.	CI/CD or unattended overnight suites.

9. Updating and Uninstalling

Updating to a new version

1. Stop the agent (close the start window).

2. Unzip the new `Spec2TestAI-Agent-Setup.zip` over the existing folder, replacing files when asked. Your registration is preserved (it lives outside the folder).
3. Run `Install-Spec2TestAI.bat /install` command once to refresh components, then start as usual. If it detects you are already registered, you can skip re-entering your Org ID.

Uninstalling

- Stop the agent, then delete the agent folder.
- To fully remove the registration, delete the `.spec2testai` folder in your user home directory, and remove the agent from the dashboard Agents page.

10. Network & IT Notes

If outbound traffic is restricted, ask IT to allow HTTPS to the Spec2TestAI endpoint:

```
https://4a9acwv4tb.execute-api.us-east-1.amazonaws.com  
(and the linked AWS S3 storage for screenshot upload)
```

Simpler than before

Because AI analysis is handled server-side by the platform, the agent no longer contacts any AI provider directly. There is nothing for IT to allowlist except the Spec2TestAI cloud.

Behind an authenticated corporate proxy?

Set the `HTTPS_PROXY` environment variable before starting the agent, for example:

```
set HTTPS_PROXY=http://user:pass@proxy.company.com:8080    (Windows)  
export HTTPS_PROXY=http://user:pass@proxy.company.com:8080  (Mac)
```

11. Troubleshooting

Symptom	What to do
"Node.js was not found"	Install Node.js 20+ from the page the installer opened, then run the installer again.
Windows SmartScreen blocks the script	Click "More info" then "Run anyway". It appears only because the script is freshly downloaded.
macOS won't open the script	Right-click the <code>.command</code> file, choose Open, then Open again. Required once per script.
Component install fails partway	Check internet connectivity and re-run the installer. It is safe to run more than once.
Registration failed	Double-check the Organization ID with your administrator and try again.
Agent not visible in dashboard	Make sure the start window is open and running, and that the Organization ID matches your account.
Agent runs but finds no work	Confirm a local execution was queued and that it targets the same organization.

Need help?

Email support@agileailabs.com with the text from the agent window and we will help you get running.