Kitesurf goes open source: a lightweight browser for AI agents, and what to check before you adopt it

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Cloudflare says it has open sourced Kitesurf, a stateless browser for AI agents that runs entirely on Cloudflare Workers, under the Apache 2.0 licence. The repository is on GitHub, and Cloudflare says you can run it locally or deploy your own instance.

TL;DR The short version

- Cloudflare has open-sourced Kitesurf, a lightweight browser for AI agents that you can run locally or deploy yourself.
- It parses HTML, applies CSS, runs page JavaScript and renders screenshots, aiming to use less CPU and memory than full Chromium.
- Test it on the sites your agent actually visits and keep it isolated, since it runs untrusted page JavaScript on your behalf.

Read online, listen to it, or change the text size: https://blogs.iictp.org/cloudflare-kitesurf-open-source-agent-browser

What was reported

- Cloudflare says Kitesurf parses HTML, applies CSS, executes page JavaScript and renders screenshots without a browser container, and supports the Chrome DevTools Protocol so clients such as Puppeteer can connect.
- Its stated goal is a lighter browser for agents than full Chromium, using less CPU and memory and scaling on demand across the Workers network. These are Cloudflare's claims; this post has not measured them.
- Cloudflare lists open-source Rust components compiled to WebAssembly: Blitz (HTML, DOM, layout, painting), Stylo (CSS), Boa (JavaScript, as a last resort), Linebender libraries (text and 2D graphics) and Krilla (PDF).
- It describes three parts: an Engine that manages sessions and client connections, PageScript that runs the page and its JavaScript, and PageRenderer that draws the result.

What a practitioner should do

- Test compatibility on the sites your agent actually visits. A browser that is not Chromium can render or script pages differently.
- Remember that an agent browser executes untrusted page JavaScript on your behalf. Keep it isolated, and give it no credentials it does not need.
- Log what the agent loads and does, and set limits on sessions, time and spend.

- Review the licences of the bundled components listed in the repository's notice file before you ship anything built on it.

The wider lesson

Open sourcing a component lets you inspect and own it, which is a real benefit for build-versus-buy decisions, but it does not remove the work of verifying it. Applying that discipline to agent tooling is the focus of the Applied AI domain of the TPBOK.

> Facts in this post were read from the sources listed below on 17 November 2026; this is a developing story or product and details may have changed since.

Sources and further reading

1. Cloudflare. Kitesurf is now open source. 13 November 2026. blog.cloudflare.com/kitesurf-open-source/

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