EcomLabs

STEP-BY-STEP GUIDE

Measure the weight of each Shopify app

How to measure what each app adds to your store with PageSpeed and DevTools, a table to record the results, a console snippet that adds up weight per domain and the checklist to clean your theme after an uninstall.

FOR	Shopify stores with several apps installed and a campaign coming up
TESTED WITH	Console snippet in Playwright Chromium · Node 22.22.3 · local test page · Windows 11
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DOCS	developer.chrome.com/docs/lighthouse/performance/third-party-summary
ARTICLE	ecomlabs.dev/g/peso-en
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BEFORE YOU START

What you will measure

The weight each app adds to your pages, in bytes and in main-thread time, so you can decide which ones stay. Measure in a private window with no extensions, on three pages: home, collection and product. Start by listing the installed apps and write down what each one does and who uses it; if nobody knows what it is for, it is a candidate for removal. Record each result in the table in step 05.

STEP 01

PageSpeed Insights, on mobile

Paste each page's URL and read the diagnostics. Look for the third-party audit, `Reduce the impact of third-party code`: it fails when the total main-thread blocking time from third-party scripts is greater than 250 ms. As of Lighthouse 13 there is also a third-parties insight that always passes and only informs: read the list.

- Run each page several times and keep the median: results vary.
- A domain is not an app: one app can use several, and one domain can serve several.

STEP 02

Weight per domain in Network

- DevTools, **Network** panel: turn on **Disable cache** and pick a preset in **Throttling**.
- Right-click the header and turn on the **Domain** column.
- Reload and sort by Domain. In **Filter** type `domain:` plus an app's domain; the status bar gives requests and KB transferred.
- **Size** is the headers plus the body, as the server delivered them.

STEP 03

Block the domain and compare

Open the **Network request blocking** tab, add the app's domain, reload and compare with the run without blocking. The app's cost is the difference between the two runs.

STEP 04

Summary by domain in the console

With the page loaded, paste this in the console:

```
const byHost = {};
for (const e of performance.getEntriesByType("resource")) {
  const host = new URL(e.name).host;
  const row = (byHost[host] ??= { requests: 0, kb: 0 });
```

```
  row.requests += 1;
  row.kb += e.transferSize / 1024;
}
for (const row of Object.values(byHost)) row.kb = Math.round(row.kb * 10) / 10;
console.table(byHost);
```

> **CAUTION**
> A 0 does not mean the app weighs nothing: for cross-origin resources without `Timing-Allow-Origin`, `transferSize` is 0. We ran it in Playwright's Chromium on a made-up local page: 0 KB without the header, 80.6 and 120.3 KB with `Timing-Allow-Origin: *`. Use the Size column in Network; the snippet does not measure main-thread time either.

STEP 05

Results table

Copy this table and fill it with the median of each measurement, with the app on and with its domain blocked:

APP	DOMAIN	REQUESTS	KB	BLOCKING (MS)	DECISION
app 1					keep / replace / remove
app 2					keep / replace / remove

STEP 06

Clean the theme after uninstalling

Shopify warns that uninstalling an app from the admin does not always remove its code from the theme. Duplicate the theme, work on the copy and search a folder with the theme downloaded (or the theme's code editor):

```
grep -rn "app-reviews" layout sections snippets templates
ls snippets | grep -i reviews
```

Replace `app-reviews` with the app's name or its scripts' domain.

- [ ] You duplicated the theme and work on the copy.
- [ ] `layout/theme.liquid` has no `<script>` tags from the app.
- [ ] No app files are left in `snippets/`.
- [ ] You removed the file and its `{% render %}` or `{% include %}` tag together.
- [ ] The page source no longer contains the app's domain.
- [ ] You checked the **App embeds** section of the theme editor.
- [ ] Cart and checkout tested; changes finished before the freeze (Black Friday is November 27, 2026).