Domain Configuration for Web Push Consents: Adding the Service Worker File via Cloudflare

Introduction

If you want Web Push consents to be assigned to your own domain, and not salesmanagopush.com, you need to place an sw.js file in the root directory of your website server. However, many SaaS platforms restrict direct access to the root directory, making this process challenging. While adding a Service-Worker-Allowed header could be a solution, this option is often not feasible on SaaS platforms. Fortunately, Cloudflare offers a workaround by allowing you to serve the sw.js file without obtaining direct access to the root directory.

This guide provides instructions on how to use Cloudflare to place the sw.js file on supported SaaS platforms.

IMPORTANT: This approach is **not compatible with Shopify**, as the platform actively prevents the use of Cloudflare for this purpose.

Instructions

The process described in this guide is relatively simple and can be divided into four stages: setting up your domain on Cloudflare; creating a worker file responsible for adding the sw.js file; assigning the worker file to your domain; and changing the response headers to make it appear as JavaScript.

Step 1.

Create a Cloudflare account. You can use the free plan for the purpose described in this guide.

https://www.cloudflare.com/plans/

Step 2.

Go to the main Cloudflare panel and click *Add a Site* to add your domain to Cloudflare. Follow the instructions provided by Cloudflare.

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Step 3.

Change the DNS settings of your domain according to the instructions provided by Cloudflare.

https://developers.cloudflare.com/dns/zone-setups/full-setup/setup/

When this step is completed, your domain must be verified by Cloudflare.

Step 4.

When your domain has been verified by Cloudflare, go to the *Workers & Pages* section and click *Create application*.

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 Websites ³ Discover [∞] Domain Registration [∞] [∞]	Workers & Pages Overview Build & deploy serverless functions, sites, and full-stack applications with Workers & Pages. Read the <u>Workers documentation</u> C3 and <u>Pages</u> <u>documentation</u> C3 to learn more.		Create application	Account details (Free) 12:00MM Tue (UTC) - 11:47AM Tue (UTC) Bundled requests today ☉ 166 / 100,000				
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Step 5.

Click *Create worker* to create a script that will allow you to programmatically add sw.js file to your website.



Next, set a name for the worker, e.g. "Add sw.js file", and click *Deploy* to continue.

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* - Run "npm run deploy" to publish your worker * Learn more at https://developers.cloudflare.com/workers/	
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<pre>async fetch(request, env, ctx) { (</pre>	
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Click *Edit code* to enter the editing screen.

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Workers Developer Docs	
Learn how to keep building on Workers.	
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Get inspiration from how Workers are used by companies such	
as Canva, Polestar, and more.	
Join developer Discord	

Step 6.

Use the left-hand panel to add the code snippet provided below.



You can remove all the default content of the worker file and just paste the copied code.

IMPORTANT: Remember to substitute the xxx in importScripts instruction with your SALESmanago endpoint, e.g. "www", "app2", or "app3".

CODE SNIPPET TO BE INCLUDED IN THE WORKER FILE:

```
JavaScript
addEventListener("fetch", (event) => {
  event.respondWith(handleRequest(event.request));
});
async function handleRequest(request) {
  const url = new URL(request.url);
  if (url.pathname.includes('/sw.js')) {
    const response = await fetch(request);
    await response.text();
    const modifiedContent =
"importScripts('https://xxx.salesmanago.com/static/sm-sw.js');";
    return new Response(modifiedContent, {
      statusText: response.statusText,
      headers: response.headers,
      status: 200
    });
  } else {
    return await fetch(request);
  }
}
```

Step 7.

Click *Save and deploy* to save the changes. Next, confirm it by clicking *Save and deploy* again.



Step 8.

At this stage, the worker is ready, however, it is not yet assigned to your domain. To do this, go to the *Website* tab and select your domain. Next, go to the *Workers Routes* section and click *Add route*.

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In the *Route* field, specify your domain followed by /sw.js, for example:

example.com/sw.js

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 ← technicalsite.pl → ○verview ○ Analytics.8.Logs → △ Dits ← ■ Email → 	Workers Routes Manage Workers The URL patterns to Workers, enabling Workers to be executed based on the route of an incoming request. Manage Workers Workers Routes Add route X HTTP Rout Add route X Workers Routes Run your Workers by assigning it to one or many routes. Add route woodify a sites Run your Worker by assigning it to one or many routes. Add route Search Routes Use an asteriat (0) character to create dynamic patterns that match multiple Show all Image Worker Search Routes Worker Image worker Image worker Route Image worker Image worker Image worker	Traffic sequence Traffic sour application runs Traffic to your application runs Cloudina's edge: DDOS URL Rewrites Page Rules Origin Rules Cache Rules Configuration Rules Redirect Rules IP Access Rules Bots WAF
Apps Scrape Shield Zaraz Bee Collapse sidebar	Workers. You can read and write keyvalue pairs in your namespaces via the API and bind them as resources inside Workers. <u>See documentation</u>	Header Modification Workers Grigin

Save the settings and wait for approximately 15 minutes for the changes to be applied.

Step 9.

Select *Rules* from the left-hand panel. If you cannot see this option, make sure you are in the *Website* \rightarrow [your domain] section.

Go to Transform Rules → Modify Response Header tab and click Create rule.

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C Analytics & Logs •	Transform Rules documentation	DDoS Q
💑 DNS 👻	URL-encoded Requests to this zone are normalized at the edge. <u>Configure Normalization</u>	URL Rewrites
A SSL/TLS ▼	You have used 0 out of 10 active Transform Rules	Page Rules
U Security -	Rewrite URL Modify Request Header Modify Response Header Vanaged Transforms	Origin Rules 0
		Cache Rules
4 Speed ▼	Set the value of an HTTP response header to a literal value or according to an expression, or remove an HTTP header from the response.	Configuration Rules 0
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Apply the following configuration:

When incoming requests match Image: All incoming requests match Custom filter expression The rule will only apply to traffic matching the custom expression When incoming requests match Field Operator Value URI Path contains swjs e.g. /content Edit expression (http.request.uri.path contains "sw.js") Then Modify response header ① You can modify up to 30 response headers Header name Value Set static Content-Type Elitexpression Value (and and and and and and and and and and							
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Set new header Cancel Save							

Name—Enter any name, for example, "sw.js content type overwrite"

When incoming request match—Set Custom filter expression

Field—Set URI Path

Operator—Set contains

Value—Set sw.js

In the section "Then... Modify response header" set the following:

Dropdown—Set static Header name—Set Content-Type Value—Set text/javascript

Click Save/Deploy to apply the changes.

Testing the changes

In order to verify whether the service worker has been successfully added to your domain, wait for 15 minutes, then go to your website and open developer tools (F12).

Go to the *Application* tab and select *Service workers*. If the sw.js file is present next to the *Source* label, the setup is complete.

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From now on, collected Web Push consents will be assigned to your own domain.

If you continue to use any existing consent prompts, Web Push notifications associated with these consent prompts will be sent to Contacts who consented both before and after the addition of the sw.js file, however, the former will still see "salesmanagopush.com" as the sender.

You can also create new consent prompts and start collecting consents anew.

If you still have any questions or need assistance, please contact us at:

support@salesmanago.com