In Citable

### **Enter a domain:**

## www.imoving.com

## Check HSTS preload status and eligibility

Status: www.imoving.com is not preloaded.

Eligibility: In order for www.imoving.com to be eligible for preloading, the errors below must be resolved:

## **X** Error: Subdomain

'www.imoving.com' is a subdomain. Please preload 'imoving.com' instead. (Due to the size of the preload list and the behaviour of cookies across subdomains, we only accept automated preload list submissions of whole registered domains.)

### **X** Error: No includeSubDomains directive

The header must contain the 'includeSubDomains' directive.

### **X** Error: No preload directive

The header must contain the 'preload' directive.

#### **X** Error: Max-age too low

The max-age must be at least 31536000 seconds ( $\approx$  1 year), but the header currently only has max-age=10886400.

#### **▲ Warning: Unnecessary HSTS header over HTTP**

The HTTP page at http://www.imoving.com sends an HSTS header. This has no effect over HTTP, and should be removed.

## **Information**

This form is used to submit domains for inclusion in Chrome's <u>HTTP Strict Transport</u> <u>Security (HSTS)</u> preload list. This is a list of sites that are hardcoded into Chrome as

being HTTPS only.

Most major browsers (Chrome, <u>Firefox</u>, Opera, Safari, <u>IE 11 and Edge</u>) also have HSTS preload lists based on the Chrome list. (See the <u>HSTS compatibility matrix</u>.)

## **Submission Requirements**

If a site sends the preload directive in an HSTS header, it is considered to be requesting inclusion in the preload list and may be submitted via the form on this site.

In order to be accepted to the HSTS preload list through this form, your site must satisfy the following set of requirements:

- 1. Serve a valid **certificate**.
- 2. **Redirect** from HTTP to HTTPS on the same host, if you are listening on port 80.
- 3. Serve all **subdomains** over HTTPS.
  - In particular, you must support HTTPS for the www subdomain if a DNS record for that subdomain exists.
- 4. Serve an **HSTS header** on the base domain for HTTPS requests:
  - The max-age must be at least 31536000 seconds (1 year).
  - The includeSubDomains directive must be specified.
  - The preload directive must be specified.
  - If you are serving an additional redirect from your HTTPS site, that redirect must still have the HSTS header (rather than the page it redirects to).

For more details on HSTS, please see <u>RFC 6797</u>. Here is an example of a valid HSTS header:

Strict-Transport-Security:

max-age=63072000; includeSubDomains; preload

You can check the status of your request by entering the domain name again in the form above, or consult the current Chrome preload list by visiting chrome://net-internals/#hsts in your browser. Note that new entries are hardcoded into the Chrome source code and can take several months before they reach the stable version.

# **Continued Requirements**

You must make sure your site continues to satisfy the submission requirements at all times. Note that removing the preload directive from your header will make

your site immediately eligible for the <u>removal form</u>, and that sites may be removed automatically in the future for failing to keep up the requirements.

In particular, the <u>requirements above</u> apply to all domains submitted through hstspreload.org on or after **October 11, 2017** (i.e. preloaded after Chrome 63)

The same requirements apply to earlier domains submitted on or after **February 29, 2016** (i.e. preloaded after Chrome 50), except that the required max-age for those domains is only 10886400 seconds.

## **Deployment Recommendations**

If your site is committed to HTTPS and you want to preload HSTS, we suggest the following steps:

- 1. Examine all subdomains (and nested subdomains) of your site and make sure that they work properly over HTTPS.
- 2. Add the Strict-Transport-Security header to all HTTPS responses and ramp up the max-age in stages, using the following header values:
  - o 5 minutes:

```
max-age=300; includeSubDomains
```

o 1 week:

```
max-age=604800; includeSubDomains
```

o 1 month:

```
max-age=2592000; includeSubDomains
```

During each stage, check for broken pages and monitor your site's metrics (e.g. traffic, revenue). Fix any problems that come up and then wait the full max-age of the stage before you move on. For example, wait a month in the last stage.

- 3. Once you're confident that there will be no more issues, increase the maxage to 2 years and submit your site to the preload list:
  - o 2 years, requesting to be preloaded:

```
max-age=63072000; includeSubDomains; preload
```

If you have a group of employees or users who can beta test the deployment, consider trying the first few ramp-up stages on those users. Then make sure to go through all stages for all users, starting over from the beginning.

Consult the <u>Mozilla Web Security guidelines</u> and the <u>Google Web Fundamentals</u> <u>pages on security</u> for more concrete advice about HTTPS deployment.

# **Preloading Should Be Opt-In**

If you maintain a project that provides HTTPS configuration advice or provides an option to enable HSTS, **do not include the preload directive by default**. We get regular emails from site operators who tried out HSTS this way, only to find themselves on the preload list by the time they find they need to remove HSTS to access certain subdomains. Removal tends to be slow and painful for those sites.

It's great to support HSTS preloading as a best practice, and for projects to provide a simple option to enable it. However, site operators who enable HSTS should know about the long-term consequences of preloading before they turn it on for a given domain. They should also be informed that they need to meet additional requirements and submit their site to <a href="https://hstspreload.org">hstspreload.org</a> to ensure that it is successfully preloaded (i.e. to get the full protection of the intended configuration).

#### Removal

Be aware that inclusion in the preload list cannot easily be undone. Domains can be removed, but it takes months for a change to reach users with a Chrome update and we cannot make guarantees about other browsers. Don't request inclusion unless you're sure that you can support HTTPS for **your entire site and all its subdomains** in the long term.

However, we will generally honor requests to be removed from Chrome's preload list if you find that you have a subdomain that you cannot serve over HTTPS for strong technical or cost reasons. To request removal, please visit the <u>removal form</u>.

# **TLD Preloading**

Owners of gTLDs, ccTLDs, or any other <u>public suffix</u> domains are welcome to preload HSTS across all their registerable domains. This ensures robust security for the whole TLD, and is much simpler than preloading each individual domain. Please <u>contact us</u> if you're interested, or would like to learn more.

### **Contact**

Want to remove your domain? Please visit the removal form.

Else, if you have questions or requests that are not covered by this site, email us <a href="here">here</a> using an appropriate subject line and one of the preload list maintainers will be in contact soon.