

How to add SSL to your localhost with puma

<https://medium.com/@matayoshi.mariano/how-to-add-ssl-to-your-localhost-with-puma-37a66a649f29>

Well, with the new update from Chrome from 80, if we have third party cookies you will need to add the `SameSite=None; Secure`, but this means that third party cookies will only be sent over HTTPS connection.

The following video is explaining this way better than me:

Also, I leave you guys a [blog post](#) from Chrome with the SameSite Cookie Changes.

OK, so if you are like me, who is developing services that shared a cookie between each other and using Ruby on Rails with [Puma](#) as your web server you will need to have HTTPS connection.

Creating a certificate

So the first thing you will need to do is to create a certificate for your service you want to add the HTTPS connection. Let's use [mkcert](#) to generate it, i'm going to localhost, but you can use whatever name you want

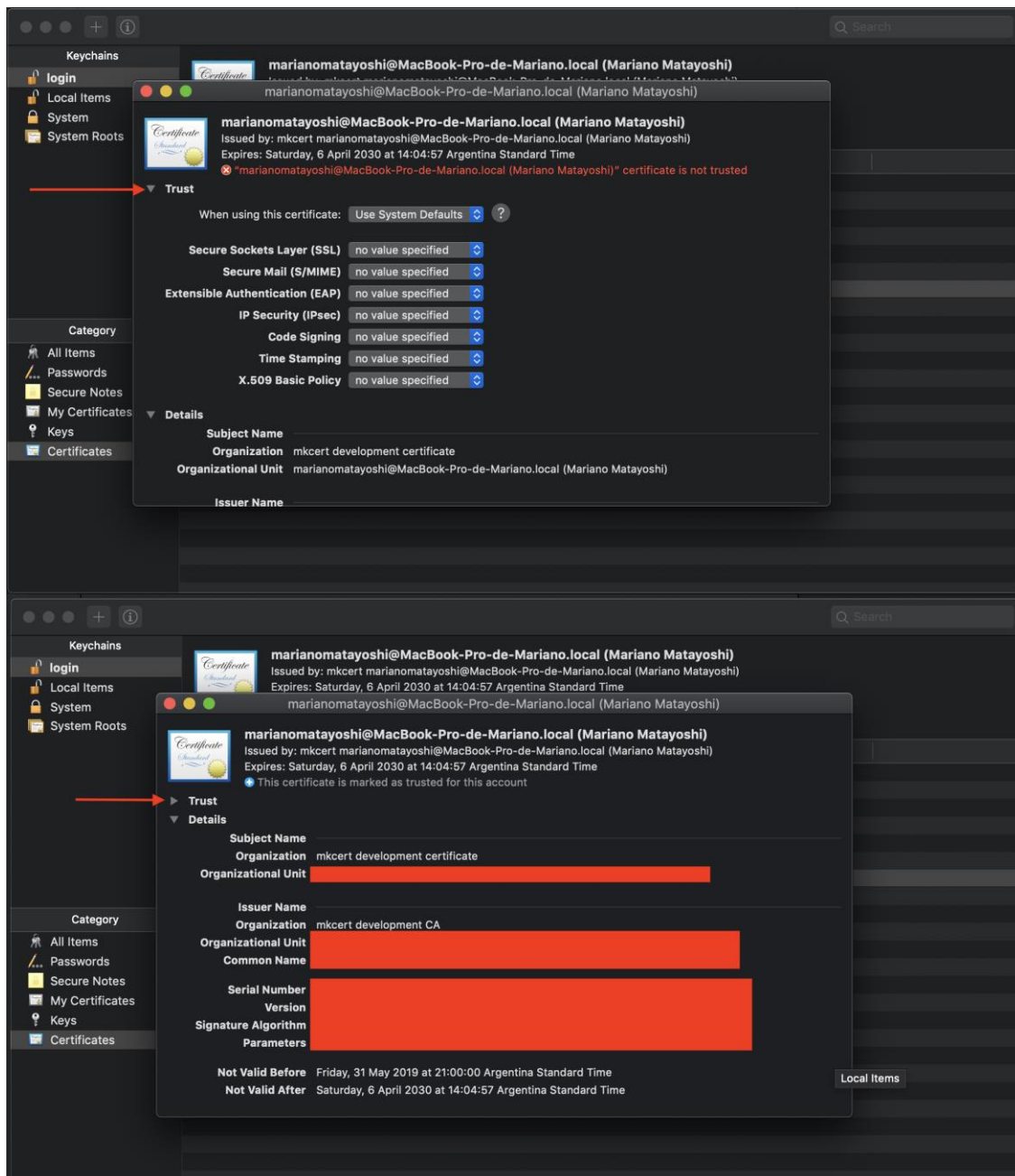
```
→ ~ mkcert localhostUsing the local CA at
"/Users/marianomatayoshi/Library/Application Support/mkcert" ⚠Warning: the
local CA is not installed in the system trust store! ⚠Warning: the local CA
is not installed in the Firefox trust store! ⚠Run "mkcert -install" to avoid
verification errors !!Created a new certificate valid for the following names
- "localhost"The certificate is at "./localhost.pem" and the key at
"./localhost-key.pem" ✓
```

Now we should mark these cert as trusted, I'm working on a Mac computer, so not sure how to handle this particular part on Windows or on a Linux distro.

For Mac users open the Keychain Access and drag the certificate to the Keychain, the `localhost.pem` file, you could see some error, but it will end up adding it..

Just after adding the certificate

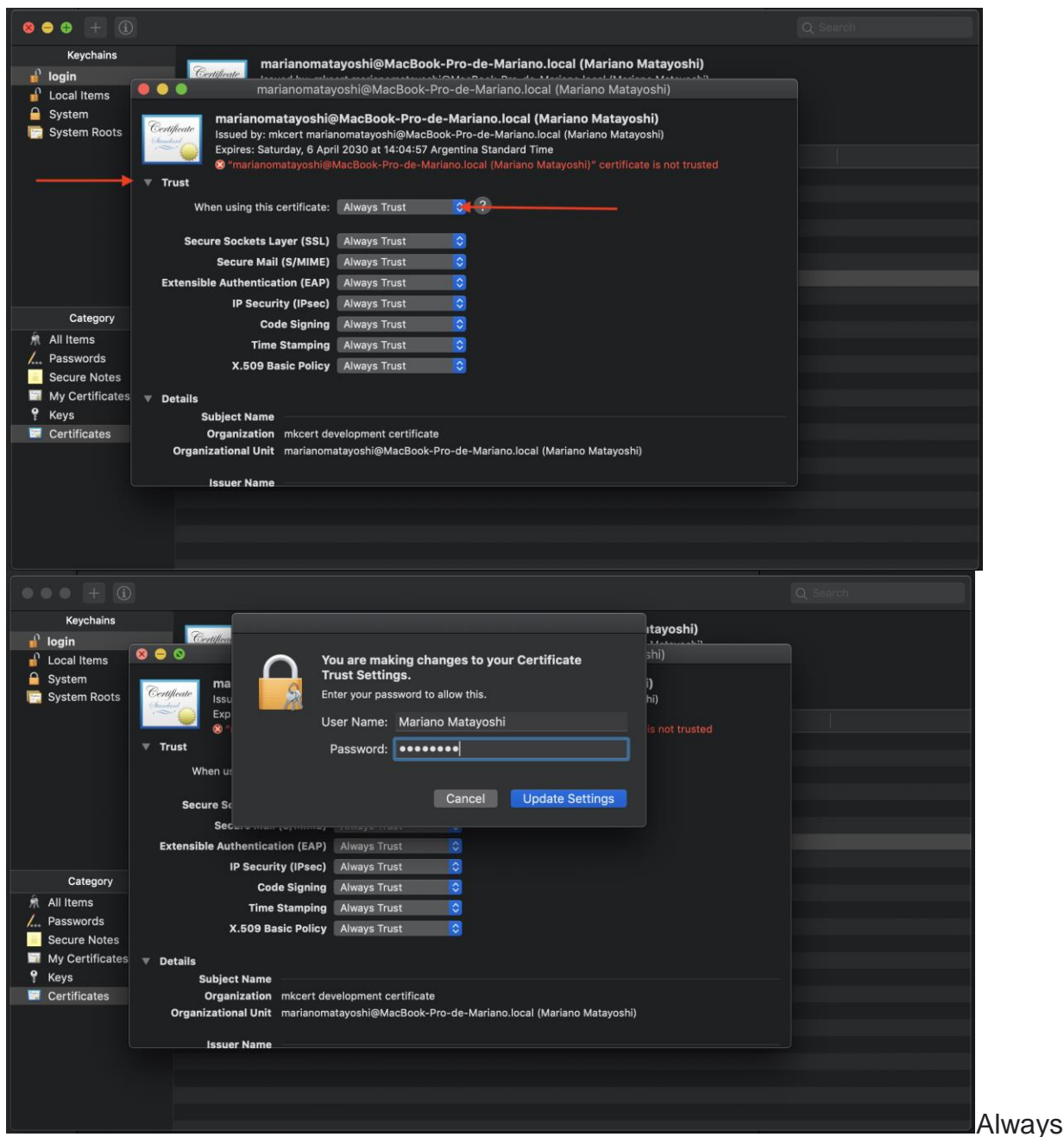
Double-click the cert you just added, click the -> **Trust**



After

double clicking the cert

And at the **When using this certificate:** select the **Always Trust** option.



trust the cert

Localhost on SSL

Now the interesting part:

In your puma config you will want to have something like [this](#):

I ended up creating a `local-certs` folder inside `config` folder and pasted the cert and key there.

Then running `bundle exec puma -C puma.rb` will prompt something like this

```
→ ~ bundle exec puma -C puma.rb
[97] Puma starting in cluster mode...
[97] * Version 4.1.0 (ruby 2.3.8-p459), codename: Fourth and One
[97] * Min threads: 5, max threads: 5
[97] * Environment: development
[97] * Process workers: 2
[97] * Phased restart available
[97] * Listening on tcp://0.0.0.0:3001
[97] * Listening on ssl://0.0.0.0:3000?cert=config/local-
certs/localhost.pem&key=config/local-certs/localhost-
key.pem&verify_mode=none&no_tlsv1=false&no_tlsv1_1=false
[97] Use Ctrl-C to stop
[97] - Worker 0 (pid: 105) booted, phase: 0
[97] - Worker 1 (pid: 108) booted, phase: 0
```

And if you go to <https://localhost:3000>, you will see something like this



SSL on localshot:3000