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How to Change the HTTPS Certificate in IIS Express

2020-05-05 by Johnny Graber

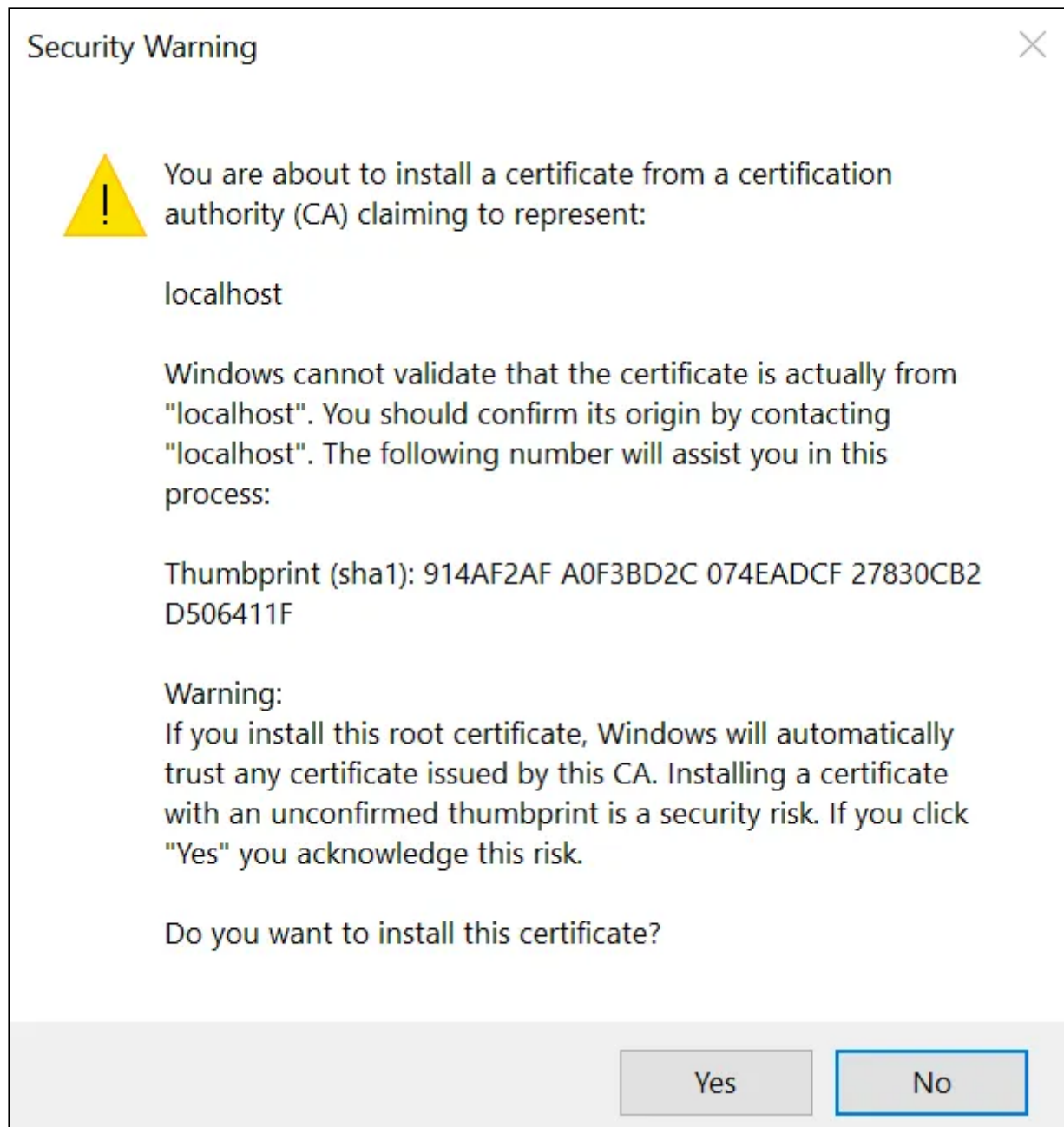
Visual Studio creates a self-signed certificate for your web application that allows you to access your site over HTTPS. As long as you do not need to change anything, this magical configuration works like a charm. Unfortunately, when you need to change something, it is incredibly hard and the magic turns into a curse.

What happens?

If there is no certificate for localhost, Visual Studio creates one for you. You notice this when a dialog like this one pops up and asks if you allow to install a certificate:

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If you agree to install this certificate, it gets installed on your machine and IIS Express magically links that certificate to your application. This happens not only for localhost, but for any domain you configure in Visual Studio.

What is the problem?

If you delete this automatically generated certificate and create a new one in your

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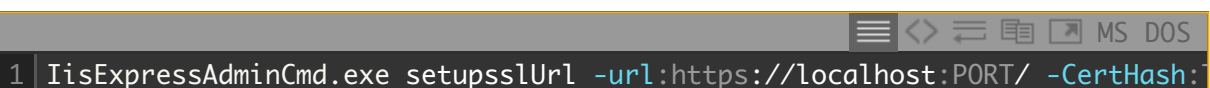
get, if any, do not help because they are too general about SSL/TLS problems (like `ERR_CONNECTION_RESET`).

It took me a while until I found the post [Working with SSL at Development Time is easier with IISExpress](#) from Scott Hanselman. It turns out, IIS Express did not much change since 2011 and `IisExpressAdminCmd.exe` still works and can fix this problem as well.

How to change a certificate?

To make anything with certificates, you should open the certificate snap-in for mmc or `Certlm.msc` for your local computer. This tool allows you to create backups and import certificates.

1. Create a backup for the old certificate, including the private key.
2. Delete the old certificate for localhost.
3. Import your new certificate for localhost
4. Move the CA-Certificate to the folder Trusted Root Certification Authorities
5. Open the certificate for localhost and copy the Thumbprint
6. Open a Command Prompt (`cmd`) as administrator and go to the folder **c:\Program Files (x86)\IIS Express**
7. Map your application to the new certificate, replace `PORT` with the port of your application and `THUMB` with the Thumbprint from step 5:



```
1 IisExpressAdminCmd.exe setupsslUrl -url:https://localhost:PORT/ -CertHash:
```

If you have multiple applications, you need to repeat step 7 for all of them.

If your certificate is in the personal certificate store and not in the local machine, you will get this error:

A specified logon session does not exist. It may already have been

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Conclusion

As so often, a magical configuration makes your developer life simpler until you hit an edge case for which you need to know the exact details. Then that magic turns into hours of debugging. I hope I can spare you those hours when you run into a problem of a missing certificate on IIS Express.

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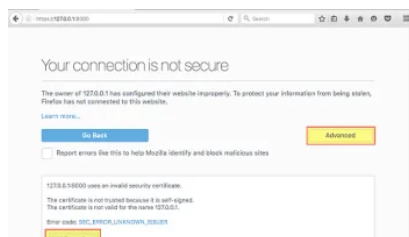


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Windows cannot validate that the certificate is actually from "localhost". You should confirm its origin by contacting "localhost". The following number will assist you in this process:

Thumbprint (sha1): 914AF2AF A0F3BD2C 074EADCF 27830CB2 D506411F

Warning:

If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.

[Recreate the Self-Signed HTTPS Certificate for Localhost in IIS Express](#)

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After deleting the developer certificate in IIS Express I could recreate a new one as described in this post. This approach worked, even when I 2021-01-05

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Angel Dinev

2020-07-10 at 15:11

This article is a LIFESAVER! Thanks a LOT Mr.Grabber!!!

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