

# SSL/TLS - Understanding Certificate Warnings

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## Overview

This KB article explains the different certificate warnings you may experience when implementing an SSL/TLS certificate on your Nagios product.

The following warnings are addressed in this KB article:

- [Certificate Authority Is Not Trusted](#)
  - [Add Exception to Web Browser \(Firefox\)](#)
  - [Add Exception to Web Browser \(Chrome\)](#)
- [URL Does Not Match Common Name](#)

## Certificate Authority Is Not Trusted

After implementing a certificate, when you navigate to the address you are presented with the following page:

**Insecure Connection** x +

https://xi-r6x-x64.box293.local/nagiosxi/ | Search

## Your connection is not secure

The owner of xi-r6x-x64.box293.local has configured their website improperly. To protect your information from being stolen, Firefox has not connected to this website.

[Learn more...](#)

[Go Back](#) [Advanced](#)

Report errors like this to help Mozilla identify and block malicious sites

xi-r6x-x64.box293.local uses an invalid security certificate.

**The certificate is not trusted because the issuer certificate is unknown.**

The server might not be sending the appropriate intermediate certificates.  
An additional root certificate may need to be imported.

Error code: [SEC\\_ERROR\\_UNKNOWN\\_ISSUER](#)

[Add Exception...](#)

You will most commonly see this error message when using self signed certificates or you are using an internal Certificate Authority (CA) to sign and issue certificates.

When you generate a certificate, you create a request that needs to be signed by a Certificate Authority (CA). You provide this request to the CA and you will then receive the signed c

When an end user points their web browser to the Nagios server, the Nagios server will present them with the signed certificate. The web browser will look at the certificate and see been issued by the CA XYZ. The web browser will check it's local database of trusted CA's to make sure that this certificate can be trusted. As you can imagine, the web browser doe about your XYZ CA and instantly tells you that you should not trust this certificate.

First and foremost, if your certificate was issued by a trusted CA (like VeriSign) then this warning should be investigated into immediately. Web browsers are kept up to date with publ CA's and something must be wrong for you to be seeing this message.

However it's most likely you are seeing this error message when using self signed certificates or you are using an internal CA to sign and issue certificates. There are two solutions a problem.

### Add CA Certificate To Web Browser Trusted CA's

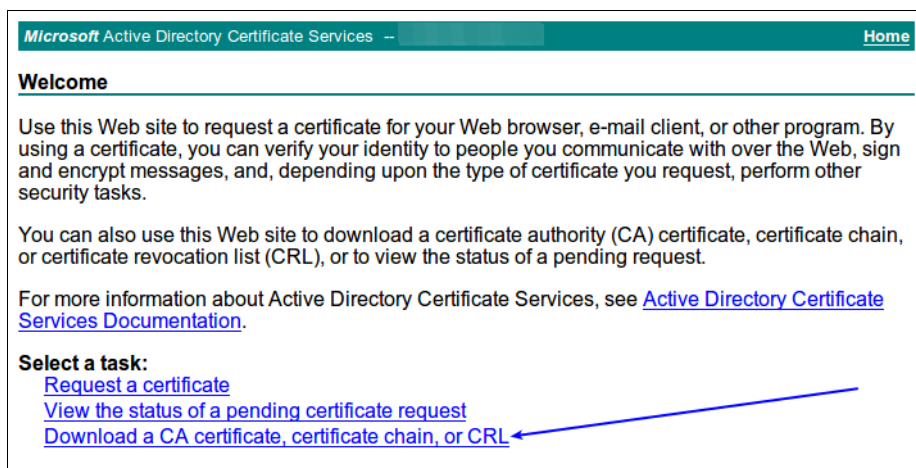
If you are using an internal CA to sign and issue certificates then you should add that certificate to your web browsers trusted CA's. This example will show you how to do this with Mo

First you must obtain the CA certificate. This example is using a Microsoft CA to sign and issue certificates. The Microsoft CA has a web interface available that you can download the from. This can be accessed by navigating to the following address in your web browser:

`http://ca_server_address/certsrv`

You will need to provide valid credentials to access the website.

You will be presented with the Welcome page. Click the **Download a CA certificate, certificate chain, or CRL** link.



**Microsoft Active Directory Certificate Services** -- [Home](#)

**Welcome**

Use this Web site to request a certificate for your Web browser, e-mail client, or other program. By using a certificate, you can verify your identity to people you communicate with over the Web, sign and encrypt messages, and, depending upon the type of certificate you request, perform other security tasks.

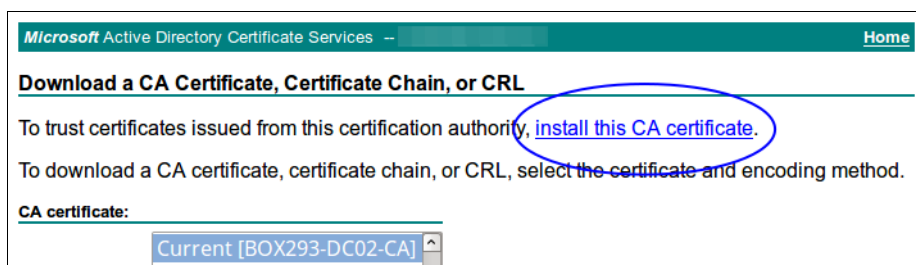
You can also use this Web site to download a certificate authority (CA) certificate, certificate chain, or certificate revocation list (CRL), or to view the status of a pending request.

For more information about Active Directory Certificate Services, see [Active Directory Certificate Services Documentation](#).

**Select a task:**

- [Request a certificate](#)
- [View the status of a pending certificate request](#)
- [Download a CA certificate, certificate chain, or CRL](#)

On the next page click the **install this CA certificate** link.



**Microsoft Active Directory Certificate Services** -- [Home](#)

**Download a CA Certificate, Certificate Chain, or CRL**

To trust certificates issued from this certification authority, [install this CA certificate](#).

To download a CA certificate, certificate chain, or CRL, select the certificate and encoding method.

**CA certificate:**

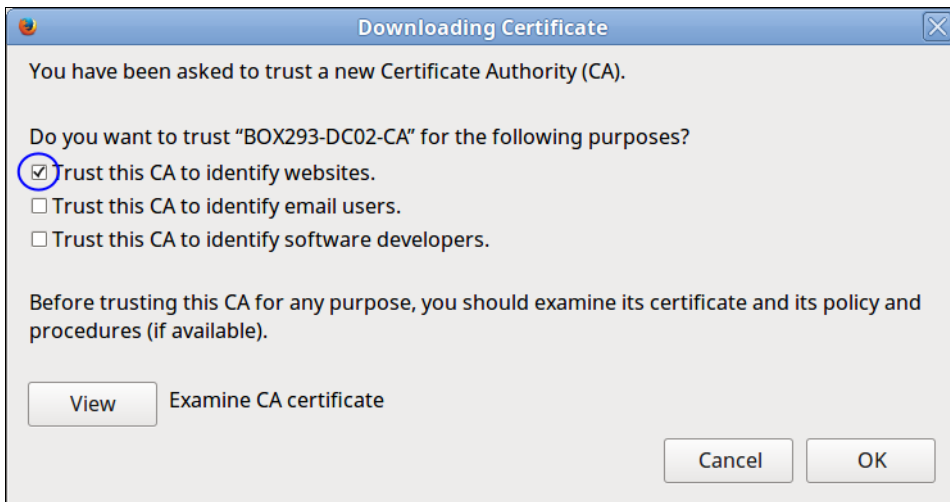
Current [BOX293-DC02-CA] ^

Encoding method:

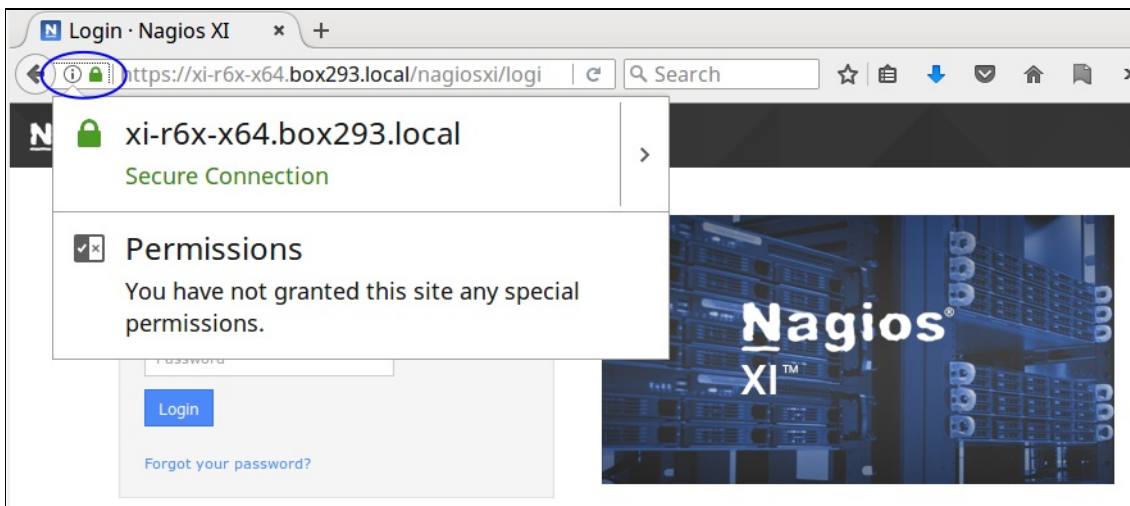
DER  
 Base 64

[Install CA certificate](#)  
[Download CA certificate](#)  
[Download CA certificate chain](#)  
[Download latest base CRL](#)  
[Download latest delta CRL](#)


Firefox will detect that you are downloading a CA certificate and will ask if you want to trust it. Click the **Trust this CA to identify website** check box and then click **OK**.



The CA certificate will be installed. If you visit the Nagios product in your web browser again you will not receive the warning. You can click the padlock icon to display information about certificate and confirm that it is secure.



The added benefit of installing the CA certificate means that if you implement certificates in other Nagios products that have been signed by this CA then they will immediately work.

 If you are using a Microsoft CA, your computer is a member of that domain AND you are using (Internet Explorer / Edge) then you will not need to install the CA. Internet Explorer use the Windows computer's local CA store. Because the computer is a member of the domain it already has a copy of the CA certificate in it's trusted CA store. However other browsers like Firefox use their own certificate store and this is why you need to install the CA certificate.

### Add Exception To Web Browser (Firefox)

You can add an exception to your web browsers to ignore the warning. This example will show you how to do this with Mozilla Firefox. Click the **Add Exception...** button.

xi-r6x-x64.box293.local uses an invalid security certificate.

The certificate is not trusted because the Issuer certificate is unknown.  
The server might not be sending the appropriate intermediate certificates.  
An additional root certificate may need to be Imported.

Error code: [SEC\\_ERROR\\_UNKNOWN\\_ISSUER](#)

You will be prompted to add the exception. Make sure you click the **Permanently store this exception** check box and then click the **Confirm Security Exception** button.

**Add Security Exception**

You are about to override how Firefox identifies this site.  
**Legitimate banks, stores, and other public sites will not ask you to do this.**

**Server**  
Location:

**Certificate Status**  
This site attempts to identify itself with invalid information.

**Unknown Identity**  
The certificate is not trusted because it hasn't been verified as issued by a trusted authority using a secure signature.

**Permanently store this exception**

The exception will be added and the page reloaded. While you will no longer receive the warning, the padlock icon will have a warning icon on it and when you click on it you will be to connection is not secure.

Login · Nagios XI

https://xi-r6x-x64.box293.local/nagiosxi/logi

xi-r6x-x64.box293.local  
Connection is Not Secure

**Permissions**  
You have not granted this site any special permissions.

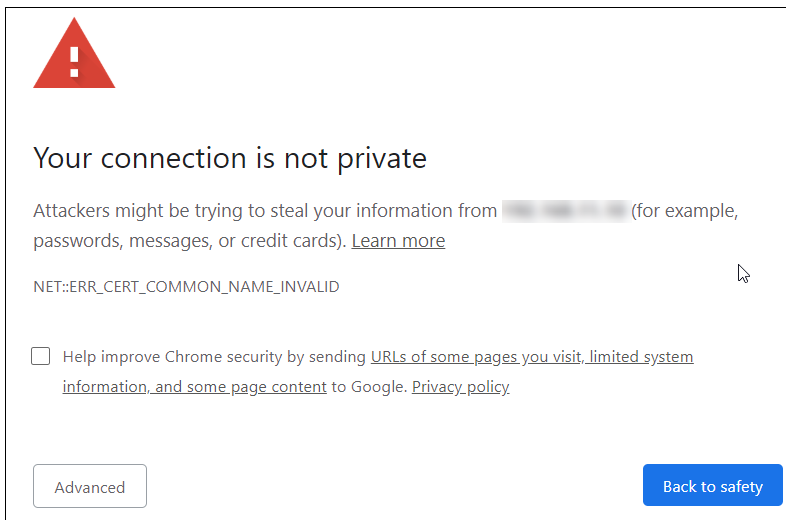
Login

Forgot your password?

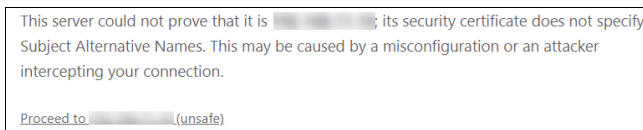
**Nagios XI**

## Add Exception To Web Browser (Chrome)

You can add an exception to your web browsers to ignore the warning. This example will show you how to do this with Google Chrome. Click the **Advanced** button.



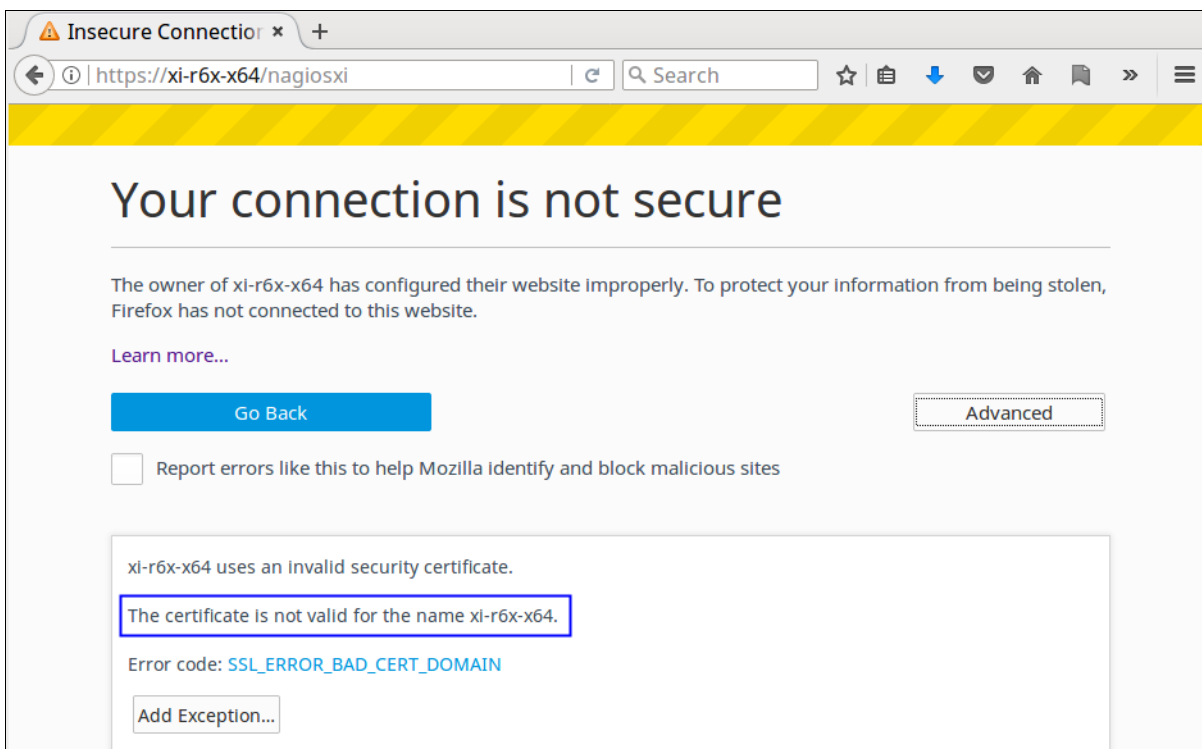
You will be prompted to proceed to the site. Make to click the **Proceed to ...** link to add the exception.



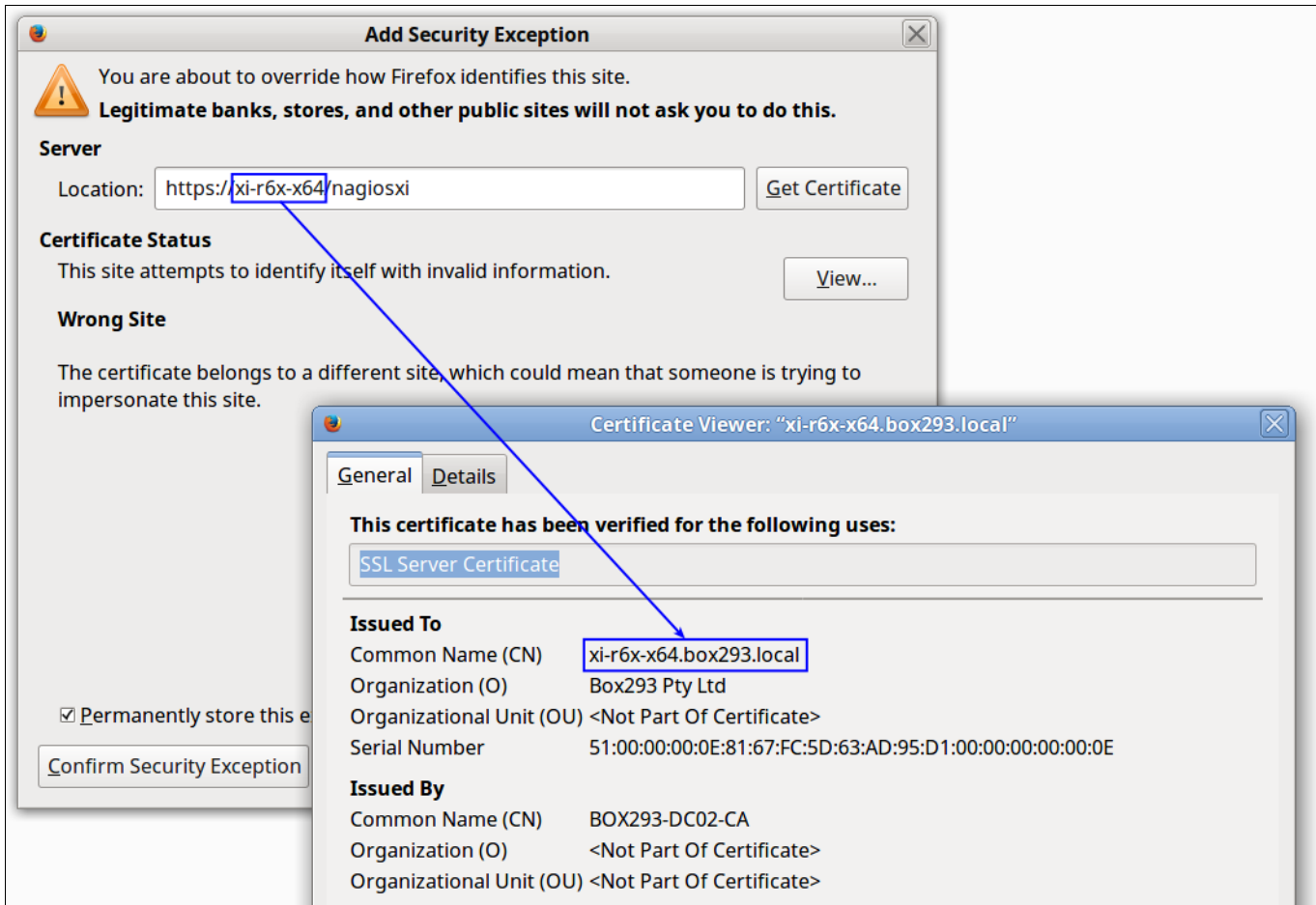
The exception will be added and the page reloaded. While you will no longer receive the warning, the page will have a warning icon on it and when you click on it you will be told the c not secure.

## URL Does Not Match Common Name

After implementing a certificate, when you navigate to the address you are presented with the following page:



If you click the **Add Exception** button you will be presented with a screen where you can click the **View** button.



In the screenshot above you can see that the address that was typed into the web browser was `xi-r6x-x64` however the certificate Common Name (CN) was created for `xi-r6x-x64.box293.local`. If you were to type `https://xi-r6x-x64.box293.local/nagiosxi` into the address bar then the certificate would work correctly and you would not receive warnings.

You can create an Apache rewrite rule on your Nagios server to redirect the web browser to `xi-r6x-x64.box293.local` and this would resolve the problem. This is defined in the `/etc/httpd/conf/httpd.conf` file, execute the following command to open the file in vi:

```
vi /etc/httpd/conf/httpd.conf
```

When using the vi editor, to make changes press `i` on the keyboard first to enter insert mode. Press `Esc` to exit insert mode.

Change this line:

```
RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}
```

To this:

```
RewriteRule (.*) https://xi-r6x-x64.box293.local%{REQUEST_URI}
```

When you have finished, save the changes in vi by typing:

```
:wq
```

and press `Enter`.

The last step is to restart the Apache service using one of the commands below:

**RHEL 7+ | CentOS 7+ | Oracle Linux 7+**

```
systemctl restart httpd.service
```

**Debian | Ubuntu 16/18+**

```
systemctl restart apache2.service
```

Now it doesn't matter if the user types the wrong address in their address bar, Apache will direct them to the correct address and will not receive the certificate warning.

## Final Thoughts

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For any support related questions please visit the [Nagios Support Forums](#) at:

<http://support.nagios.com/forum/>

Posted by: **tlea** - Wed, Jun 14, 2017 at 7:25 PM. This article has been viewed 28487 times.

Online URL: <https://support.nagios.com/kb/article/ssl-tls-understanding-certificate-warnings-598.html>