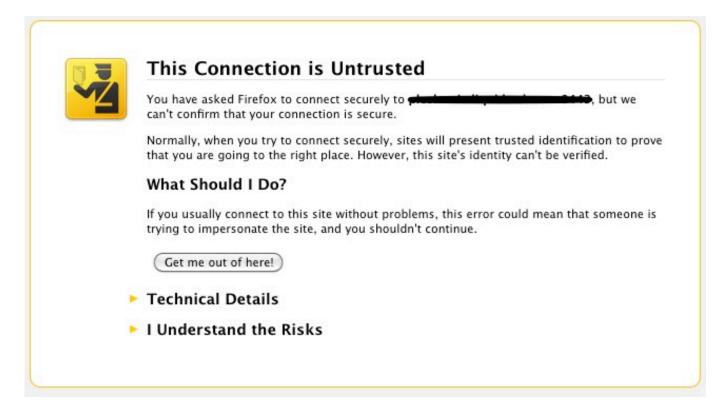


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How to generate self signed SSL certificate with openssl on Linux / BSD

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It is common solution for personal use to **generate SSL certificates which are self-signed**. Self-signed certificates are dangerous as no authority or company guarantees that remote site is trustable. However for private use having encrypted connection whether you need to transfer personal data is better than not having such. There are plenty of tutorials online pointing how to set-up Apache webserver to provide access via SSL port 443 with self-signed certifacate, but anyways I decided to blog here a one-liner command way, which makes **generating self-signed certificate** a piece of cake. Self-signed certificates on UNIX are generated with **openssl** command part of openssl (Secure Socket Layer cryptocgraphic tools).

On Debian Linux to install openssl (if you still don't have it):

apt-get install --ves openssl

On Fedora, RHEL, CentOS etc. same install should be done with:

yum install -y openssl

On FreeBSD to install it use ports;

1/3

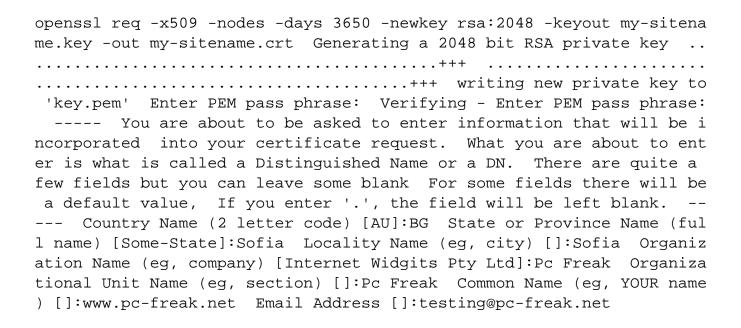


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cd /usr/ports/security/openssl make install clean

Once openssl is available, here is **command to generate self signed SSL certitifacate**;



The generated certificate Private Key file is placed in **my-sitename.key**

, actual certificate is located in **my-sitename.crt** -days option tells for how long period certificate will be valid. Regenerating certificate every year (360 days) is good security practice but it is pretty annoying to see your certificate has expered thus for private self signed SSL certificate it is more confortable to generate cert for 10 years time.

To use my-sitename.key and my-sitename.crt copy them to /etc/ssl/crt/

cp -rpf my-sitename.crt /etc/ssl/crt/
cp -rpf my-sitename.key /etc/ssl/crt/

Next what's left is to configure **Apache** to use new generated certs. Quickest way is to add it inside virtual host. Adding to Apache also depends on Linux distribution where SSL has to be added but in general, what should work is something like:

SSLEngine on SSLCertificateFile /etc/ssl/crt/my-sitename.crt SSLCertificateKeyFile /etc/ssl/crt/my-sitename.key

Note that if SSL has to be enabled for specific Virtual Host you will have to place above Apache directives into the Vhost. Though certifiate will only be trusted by your authority RSA 2048 bit

2/3



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encryption in transfer data between your Webserver and Browser should guarantee you extra security of data, not that it is impossible for data to be still sniffed by a skilled hacker but makes data securily transferred in probably 99% of cases:)

3/3