Apache SSL Certificate Deployment Guide

StartCom CA Limited

Contents

1.The environment for installing the SSL certificate

1.1 Brief introduction of SSL certificate installation environment

Centos 6.4;

Install Apache version 2.2.* or above;

Openssl 1.0.1+;

SSL certificate（Note: this guide uses the class 3 SSL certificate which the domain name is startssl.com to operate, other version of the certificate are also common.）.

1.2 Network environment requirements

Please ensure the site is a legitimate domain, which can normal access by typing it's domain name http://XXX.

2.Installation of SSL certificate

2.1 Get SSL certificate

You will get a zip file after you apply the certificate from startcom successfully. You should to extract the file and you will get 4 files: Apache Server, IIS Server, Nginx Server, Other Server, These are different formats for different servers. We will need to use the certificate from Apache Server.zip.

Figure 1

2.2 Extract SSL certificate

Extract the file of 'Apache Server.zip', open it, there are two files, including public certificate and certificate chain, as shown in Figure 2.

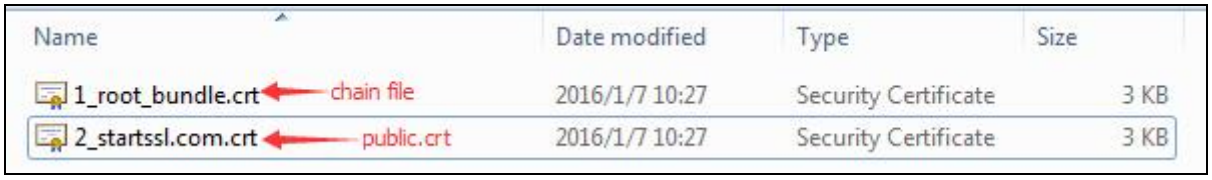

Figure 2

2.3 Install SSL certificate

To configure a default SSL/TLS aware virtual server, you should add at least the following lines to your httpd.conf or httpd-ssl.conf or ssl.conf:

LoadModule ssl_module modules/mod_ssl.so

Listen 443

<VirtualHost _default_:443>

DocumentRoot /home/httpd/private

ErrorLog /usr/local/apache/logs/error_log

TransferLog /usr/local/apache/logs/access_log

SSLEngine on

SSLProtocol all -SSLv2 -SSLv3

SSLCipherSuite ALL:!DH:!EXPORT:!RC4:+HIGH:+MEDIUM:!LOW:!aNULL:!eNULL

SSLCertificateFile /usr/local/apache/conf/domain.crt (It's from the 'Apache Server.zip' file)

SSLCertificateKeyFile /usr/local/apache/conf/private.key *(This private key is created when you generate CSR)*

SSLCertificateChainFile /usr/local/apache/conf/1_root_bundle.crt (It's from the 'Apache Server.zip' file)

CustomLog /usr/local/apache/logs/ssl_request_log \

"%t %h %{SSL_PROTOCOL}x %{SSL_CIPHER}x \"%r\" %b"

</VirtualHost>

2.4 Test the SSL certificate.

Access to https://yourdomian.com (the domain of the applied SSL certificate) Test your SSL certificate is installed successfully or not. If successful, the browser will display a safety lock sign. You could test your website's certificate and configuration by https://www.ssllabs.com/ssltest/.

3.Backup of SSL certificate

Please save the file you receive, key file and password.

4.Restore of SSL certificate

Repeat 2.3 operation.