

Apache httpd : SSL/TLS Setting

	Configure SSL/TLS setting to use secure encrypt HTTPS connection.
[1]	Get SSL Certificate, refer to here.
[2]	Enable SSL/TLS settings.

```
root@www:~ #
vi /usr/local/etc/apache24/httpd.conf
# line 92 : uncomment

LoadModule socache_shmcb_module libexec/apache24/mod_socache_shmcb.so
# line 148 : uncomment

LoadModule ssl_module libexec/apache24/mod_ssl.so
# line 526 : uncomment

Include etc/apache24/extra/httpd-ssl.conf
root@www:~ #
vi /usr/local/etc/apache24/extra/httpd-ssl.conf
# line 125, 126 : change to your server name and admin email

DocumentRoot "/usr/local/www/apache24/data"
ServerName
www.srv.world:443

ServerAdmin
root@srv.world

ErrorLog "/var/log/httpd-error.log"
TransferLog "/var/log/httpd-access.log"
# line 144 : change to the certificate you got in [1]

SSLCertificateFile
"/usr/local/etc/letsencrypt/live/www.srv.world/cert.pem"
# line 154 : change to the certificate you got in [1]

SSLCertificateKeyFile
"/usr/local/etc/letsencrypt/live/www.srv.world/privkey.pem"
# line 165 : uncomment and change to the certificate you got in [1]

SSLCertificateChainFile
"/usr/local/etc/letsencrypt/live/www.srv.world/chain.pem"
root@www:~ #
service apache24 reload
```

[3]

If you'd like to set HTTP connection to redirect to HTTPS (Always on SSL/TLS), Set RewriteRule to each Host settings.

For example, [if you set Virtual Hostings like the link here](#), Add RewriteRule like follows. Or It's possible to set RewriteRule in [.htaccess] not in [httpd.conf].

```
root@www:~ #  
vi /usr/local/etc/apache24/httpd.conf  
# line 181 : uncomment  
  
LoadModule rewrite_module libexec/apache24/mod_rewrite.so  
root@www:~ #  
vi /usr/local/etc/apache24/Includes/vhost.conf
```

```
<VirtualHost *:80>  
  DocumentRoot /usr/local/www/apache24/data  
  ServerName www.srv.world  
  # add RewriteRule  
  RewriteEngine On  
  RewriteCond %{HTTPS} off  
  RewriteRule ^(.*)$ https://%{HTTP_HOST}%{REQUEST_URI} [R=301,L]  
</VirtualHost>
```

```
root@www:~ #  
service apache24 reload
```

[4]	Verify to access to the test page from any client computer with Web browser via HTTPS.
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