

Apache Web Server Configuration

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If you have installed the Enterprise Server using the 'all in one' package from our website you can enable SSL/HTTPS settings in the Control Panel.

Access the Enterprise Server 'Control Panel'

Select 'Settings'

Click 'Apache Server SSL Configuration'

SSL Details

To enable SSL please follow the instructions below:

Select the 'SSL Details' tab

Select 'Enable SSL Server support' checkbox

Type in your selected port (the default HTTPS port is 443)



Certificate Options

There are 2 methods to add your own certificates, please follow the instructions below:

Select the 'Certificate Options' tab



Upload certificate

If you have already purchased your SSL certificate:

Click 'Upload certificate'

Simply copy the supplied server.key and server.crt files into the corresponding boxes



Create new certificate (self-signed)

If you do not already have a certificate file, a self-generated certificate can be generated for test purposes:

Click 'Create new certificate'

Enter the appropriate details into the form



Redirect Options

If you wish to force HTTPS usage:

Select the 'Redirect Options' tab

Tick the 'Force HTTPS usage' checkbox



Manual Configuration

If you have installed the Enterprise Server 'standalone' package and manually configured Apache, follow the instructions below:

Certificates

If you have already purchased your SSL certificate, simply copy the supplied server.key and server.crt files into the folder **Program Files\DESlock+ HTTP\conf**

Self Signed Certificates

If you do not already have a certificate file, a self-generated certificate can be generated for test purposes using the openssl tool following the steps below:

Open an elevated command prompt.

Navigate to **Program Files\DESlock+ HTTP\bin** (ProgramFiles (x86)) on 64bit platforms).

Enter the command "**openssl req -config ..\conf\openssl.cnf -new -out server.csr**"

You will be required to enter and verify the entry of a passphrase. All other requests can be left as default by pressing enter with the exception

of **Common Name** which **MUST** match the name of the webserver address hosting the certificate.

Enter the command "**openssl rsa -in privkey.pem -out server.key**"

Enter the passphrase you specified previously. If successful the command should return the text '**writing RSA key**'.

Enter the command "**del .rnd**"

Enter the command "**openssl x509 -in server.csr -out server.crt -req -signkey server.key -days 365**". Note: this sets the certificate to last 365 days.

Enter the command "**move server.key ..\conf**"

Enter the command "**move server.crt ..\conf**"

Applying the certificate

With either a purchased or test certificate type perform the following steps:

As a security measure, be sure to change the file permissions on the certificate files so that they are read-only and only administrator users can access them.

Open the file **Program Files\DESlock+**

HTTP\conf\httpd.conf (ProgramFiles (x86) on 64bit platforms).

Find the line **#LoadModule ssl_module modules/mod_ssl.so**, remove the #symbol from the line.

Find the line **#Include conf/extra/httpd-ssl.conf**, remove the # symbol from the line.

At the end of the httpd.conf file add these lines (this will redirect attempts to access using http to the https address instead):

```
LoadModule rewrite_module modules/mod_rewrite.so
```

```
RewriteEngine On
```

```
RewriteCond %{HTTPS} off
```

```
RewriteRule ^/dlpes(/.*)$ https://%{HTTP\_HOST}%{REQUEST\_URI} [R=302,L]
```

Save the updated httpd.conf file.

On 64 bit operating systems the following modification is required:

You need to update the ssl configuration with the short path to the logs folder. You can find the short path filenames using the DIR /X command. The example below is of a default Windows 7 x64 system using the ES preinstall.

Open \Program Files (x86)\DESlock+ HTTP\conf\extra\httpd-ssl.conf in notepad
Find the SSLSessionCache value and change as below commenting out the existing SSLSessionCache and applying the new path (highlighted below) then save the change:

```
# Inter-Process Session Cache:  
  
# Configure the SSL Session Cache: First the mechanism  
# to use and second the expiring timeout (in seconds).  
  
#SSLSessionCache      "dbm:C:/Program Files (x86)/DESlock+  
HTTP/logs/ssl_scache"  
  
#SSLSessionCache      "shmcb:C:/Program Files (x86)/DESlock+  
HTTP/logs/ssl_scache(512000)"  
  
SSLSessionCache  
"shmcb:C:/Progra~2/DESloc~1/logs/ssl_scache(512000)"  
  
SSLSessionCacheTimeout 300
```

On all operating systems:

Restart the DESlockHTTP service within the services control panel.

Note: If access to the server is from external machines you will need to open port 443 on firewalls for external connections.

keywords: apache configuration config ssl SSL https HTTPS Apache secure