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# **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.

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