# SSL Certficates

The SSL setup screen lets you create a free SSL certificate for Apache. This certificate will automatically renew every 670 days. It expires after 90, so you must keep your grid running sometime during that month to get it to renew.

The process is simple and automatic. You must be running Apache on Port 80. You cannot do this without that set up.

A screenshot of a computer screen

Description automatically generated

Step 1. Enter your real email.

Step 2. Click “Create Certificate”. The System will take about one minute to create and authorize the certificate. This will create the SSL Certificates. Wait a minute and the icon will show green or it will show it unlocked.

Step 3. Enable SSL

Step 4. Stop and Start Apache. Or click Restart if it is available.

Detail: It makes a batch file in the \SSL folder. You need to type CMD and run CMD as Administrator. Then type cd … to get to the SSL folder, and type this.

InstallSSL.bat {enter}

That is what the Create Certificate button does. DreamGrid makes that batch file and runs it. It captures the output to a log.   
  
If the batch file reports success, DreamGrid will enable the Apache server to use Certificates. It goes into effect when Apache restarts.

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## Troubleshooting:

There are some rules:

1. You must run the Apache webserver.
2. Apache must be using port 80. After this step completes you can use port 443 for SSL.
3. You must be using a domain name in Setup->Settings->HG DNS Name.
4. The domain must be accessible from the Internet so the system name can be validated. A simple test is to see if canyouseeme.org works on port 80. Then try your domain name + :80

There is a log specifically for SSL issues. It is located in Outworldzfiles\Logs.

2022-01-29 00:53:30:OK: A simple Windows ACMEv2 client (WACS)

Software version 2.1.20.1185 (release, pluggable, standalone, 64-bit)

Connecting to https://acme-v02.api.letsencrypt.org/...

Scheduled task looks healthy

Please report issues at https://github.com/win-acme/win-acme

Running in mode: Unattended

Source generated using plugin Manual: smartboot.outworldz.net

Overwriting previously created renewal

Using cache for [Manual] smartboot.outworldz.net. To get a new certificate within 1 days, run with --force.

Store with PemFiles...

Exporting .pem files to C:\Users\XXX\Desktop\Dreamgrid\Dreamworld\OutworldzFiles\Apache\Certs

Installing with None...

Scheduled task looks healthy

Next renewal scheduled at 2022/3/25 5:40:43

Certificate [Manual] smartboot.outworldz.net created

2022-01-29 00:53:31:Info:Certificate installed