

# CMS

## Install

```
# apt-get install -y hubzero-cms-2.1.0
```

## Configure

```
# hzcms install example
```

It is necessary to immediately run the updater to apply fixes that have not been incorporated into the initial installation.

```
# hzcms update
```

Disable the "default" site provided by Debian and then enable the http and https hub sites

```
# a2dissite 000-default  
# a2ensite example example-ssl  
# /etc/init.d/apache2 restart
```

## SSL Configuration

The default SSL certificate is meant for evaluation purposes only. For a production Hub, you will need to obtain a certificate from a provider. A certificate may contain two or three pieces: a public certificate, a private key, and sometimes an intermediate certificate.

Once you obtain the certificate, install their respective sub-directories in the **/etc/ssl** directory.

After the certificates are installed, you will need to modify the Apache configuration template located in `/etc/apache/sites-m4/{hubname}-ssl.m4`.

**Replace SSLCERTFILE on line 184 with the path to your SSL certificate.**

```
SSLCertificateFile /etc/ssl/path/to/cert
```

**Replace SSLCERTKEYFILE on line 185 with the path to your SSL key.**

```
SSLCertificateKeyFile /etc/ssl/path/to/key
```

**If you have an intermediate certificate:**

**remove line 186:** `ifdef(`SSLCERTCHAINFILE',``

**remove line 188:** `)dnI`

**Replace SSLCERTCHAINFILE with the path to your SSL key.**

Once the paths have been updated, reconfigure the CMS.

```
# hzcms reconfigure example
# /etc/init.d/apache2 restart
```

If you are using the HTML5 VNC Proxy Server, [you must update your certificate settings as well.](#)

## Test

The default installation of the CMS uses a self signed SSL certificate. Some browsers will not accept this certificate and not allow access to the site.

<https://support.mozilla.org/en-US/questions/1012036>

You will need to install a proper SSL certificate.