

Add custom certificates to Apache



Introduction

In numerous cases you want to enable https on a webserver like Apache. So I decided a once and for all documentation for it.

Configuration

```
a2enmod ssl  
a2enmod rewrite  
systemctl restart apache2
```

Edit the Apache configuration file `/etc/apache2/apache2.conf`

Add at the end:

```
<Directory /var/www/html>  
    AllowOverride All  
</Directory>
```

Edit the Apache configuration file for the default website: /etc/apache2/sites-enabled/000-default.conf

```
<VirtualHost *:443>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    SSLEngine on
    SSLCertificateFile /var/lib/zentyal/conf/ssl/ssl.cert
    SSLCertificateKeyFile /var/lib/zentyal/conf/ssl/ssl.key

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
```

You have to add the lines 22, 23 and 24. I use the same certificate all over the system, so I point to already existing certificates.

Restart the service:

```
service apache2 restart
```

You might want to insert this at the beginning of the file:

```
<VirtualHost *:80>
    RewriteEngine On
    RewriteCond %{HTTPS} !=on
    RewriteRule ^/?(.*) https://%{SERVER_NAME}/$1 [R=301,L]
</virtualhost>
```

Useful links

<https://techexpert.tips/apache/enable-https-apache/>

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