# Apache-HTTPS安装配置

## 1.准备环境

yum install gcc gcc-c++ cmake

yum remove apr-util-devel apr apr-util-mysql apr-docs apr-devel apr-util apr-util-docs

## 2.安装apr

tar -zxvf apr-1.5.1.tar.gz

./configure --prefix=/usr/local/apr/

make && make install

## 3.安装apr\_util

tar -zxvf apr-util-1.5.4.tar.gz

./configure --prefix=/usr/local/apr-util/ --with-apr=/usr/local/apr/

make && make install

## 4.安装pcre

tar -zxvf pcre-8.39.tar.gz

./configure --prefix=/usr/local/pcre/

make && make install

## 5.安装openssl

tar –zvxf openssl-1.0.0e.tar.gz

./config --prefix=/usr/local/openssl/

修改Makefile里的CFLAG 增加-fPIC，如：CFLAG= -fPIC -DOPENSSL

make && make install

## 6.安装apache

tar -zxvf httpd-2.4.28.tar.gz

./configure --prefix=/usr/local/apache --with-apr=/usr/local/apr --with-apr-util=/usr/local/apr-util --with-pcre=/usr/local/pcre --enable-so --enable-rewrite --enable-ssl --with-ssl=/usr/local/openssl

make && make install

## 7.修改httpd.conf

（1）加载so

LoadModule ssl\_module modules/mod\_ssl.so

LoadModule socache\_shmcb\_module modules/mod\_socache\_shmcb.so

（2）

ServerName dzp.eyun.cn:80

DocumentRoot "/var/www/html"

<Directory "/var/www/html">

（3）启用ssl的配置

Include conf/extra/httpd-ssl.conf

## 8.修改httpd-ssl.conf

Listen 443 https

<VirtualHost \_default\_:443>

DocumentRoot "/var/www/html"

ServerName dzp.eyun.cn:443

SSLCertificateFile "/usr/local/apache/conf/server.crt"

SSLCertificateKeyFile "/usr/local/apache/conf/server.key"

## 9.生成证书

（1）生成服务器用的私钥文件server.key

openssl genrsa -out server.key 1024

（2）生成未签署的server.csr

openssl req -new -key server.key -out server.csr

程序提示输入一系列参数，包括国别、省名、市名。。。，按照提示输入即可

（3）签署服务器证书文件server.crt

openssl req -x509 -days 365 -key server.key -in server.csr -out server.crt

（4）然后将生成的server.key、server.csr、server.crt拷贝到/usr/local/apache/conf/目录下

（5）重启/usr/local/apache/bin/apachectl restart

## 10.其他

（1）查看证书内容:

openssl x509 -in /usr/local/apache/conf/server.crt -noout -subject

（2）察看动态库依赖的文件:

ldd /usr/local/apache/modules/mod\_ssl.so

有时候可能会遇见这个错误：

httpd: Syntax error on line 80 of /etc/httpd/httpd.conf: Cannot load /usr/local/apache/modules/mod\_ssl.so into server: libssl.so.0.9.8: cannot open shared object file: No such file or directory

（3）curl -v <https://XXX.com> –insecure查看请求

举个栗子：curl –v [www.baidu.com](http://www.baidu.com)

（4）wget <https://XX>.com --debug --no-check-certificate查看请求

（5）openssl s\_client -connect dzp.eyun.cn:443 –debug 查看请求详情

<https://stackoverflow.com/questions/21135637/error140770fcssl-routinesssl23-get-server-hellounknown-protocol>