Dan Benson

Command Book Page 4

How to Create a Fully Qualified Domain Name (FQDN) vHost

Set Server Name in httpd.conf file:

NameVirtualHost %%main domain name%%:80

Set vHost Directives:

<VirtualHost %%main domain name%%:80>

ServerAdmin %%admin email address%%

DocumentRoot /var/www/html/%%main domain name%%

ServerName %%main domain name%%

</VirtualHost>

Restart httpd:

Service httpd restart

Now open elinks using the public IP address to test it

How to Create an Alias Directive

<VirtualHost %%main domain/ dns resolved domain name%%:80>

ServerAdmin %%admin email address%%

DocumentRoot /var/www/html/%%main domain name%%

ServerName %%main domain name%%

Alias / /mnt/student\_resources/%%main domain name%%/

</VirtualHost>

How to Create an Apache Security Certificate

1. Download OpenSSL
   1. OpenSSL download available at <https://www.openssl.org/source/>

Commands to use to rebuild Apache with SSL support:

Rm -r httpd-%VERSION NUMBER%

Tar xvf httpd-%VERSION NUMBER%.tar

Cd httpd-%VERSION NUMBER%

./configure --with-layout=GNU --enable-ssl --with-ssl=<%SSL PATH%

source> --prefix=/

usr/local

make

make install

This deletes the Apache source directory and rebuilds it with SSL support and creates and executable httpd file.

1. Set-up your configuration httpd.conf file with SSL directives and vHosts.

Set LogLevel directives for custom logging for catching runtime errors:

User webserv

Group webserv

LogLevel notice

Set Cache file location, private public key file location:

/usr/src/apache/apache\_1.3.19/src/modules/ssl/gcache

SSLSessionCache

dbm:/usr/src/apache/apache\_1.3.19/src/modules/ssl/gcache

SSLCertificateFile

/usr/src/apache/apache\_1.3.19/SSLconf/conf/new1.cert.cert

SSLCertificateKeyFile

/usr/src/apache/apache\_1.3.19/SSLconf/conf/privkey.pem

Set-up proper Listen ports and vHost configuration:

Example:

Listen \*:80

Listen \*:443

<VirtualHost \*:443> #ip based vHostfor port 80 requests (non secure browsing)

SSLEngine off #don’t use SSL for prot 80 requests

ServerName benson.ctec145.info #set resolved header information

DocumentRoot /var/ww/html/ #set root directory for client request

ErrorLog /var/www/logs/error\_log #set log location

CustomLog /var/www/logs/dans\_log #set custom log name and location

</VirtualHost>

<VirtualHost \*:443> #ip based vHost port 443 (secure) requests

SSLEngine on #don’t use SSL for prot 80 requests

ServerName benson.ctec145.info/ssl #set resolved header information

DocumentRoot /var/ww/html/private #set root directory for client request

ErrorLog /var/www/logs/error\_log #set log location

CustomLog /var/www/logs/dans\_log #set custom log name and location

<Directory /var/www/html/private>

AuthType Basic

AuthName helloWorld

AuthUserFile /var/www/html/allow/user

AuthGroupFile /var/www/html/allow/group

Require group cleaners

</Directory

</VirtualHost>

1. Now Make A Test Certificate

% make certificate

Enter information as requested:

Country Code: US

State (Full Name): Washington

City Full Name: Vancouver

Company/Organization Name: Clark College

Organization Unit: Student

Server name (443 vHost \*MUST BE FQDN!): benson.ctec145.info/ssl

Email Address: [d.benson3@students.clark.edu](mailto:d.benson3@students.clark.edu)