

```
# configure beberapa config didalam /etc/httpd/conf
```

```
#vhost, /etc/httpd/conf/extra/httpd-vhosts.conf
```

```
<VirtualHost *:80>
```

```
    ServerAdmin admin@skulluglify.com
```

```
    DocumentRoot "/var/local/www/admin"
```

```
    ServerName store.skulluglify.com
```

```
    ServerAlias www.store.skulluglify.com
```

```
    Redirect permanent "/" "https://skulluglify.com/"
```

```
    ErrorLog "/var/log/httpd/www.store.skulluglify.com.error.log"
```

```
    CustomLog "/var/log/httpd/www.store.skulluglify.com.log" common
```

```
</VirtualHost>
```

```
<VirtualHost *:443>
```

```
    ServerAdmin admin@skulluglify.com
```

```
    DocumentRoot "/var/local/www/admin"
```

```
    ServerName store.skulluglify.com:443
```

```
    ServerAlias www.store.skulluglify.com:443
```

```
    SSLEngine on
```

```
    SSLCertificateFile "/etc/httpd/conf/server.crt"
```

```
    SSLCertificateKeyFile "/etc/httpd/conf/server.key"
```

```
    SetEnvIf User-Agent ".*MSIE.*" nokeepalive ssl-unclean-shutdown
```

```
    ErrorLog "/var/log/httpd/www.store.skulluglify.com.error.log"
```

```
    CustomLog "/var/log/httpd/www.store.skulluglify.com.log" common
```

```
</VirtualHost>
```

```
# untuk loaded module php, saya uncomment bagian  pada /etc/httpd/conf/httpd.conf
LoadModule mpm_prefork_module modules/mod_mpm_prefork.so
LoadModule socache_shmcb_module modules/mod_socache_shmcb.so
LoadModule rewrite_module modules/mod_rewrite.so
Include conf/extra/httpd-ssl.conf
```

```
# dan menambahkan config berikut pada /etc/httpd/conf/httpd.conf
## <<<php_modules>>>
LoadModule php_module modules/libphp.so
AddHandler php-script .php
Include conf/extra/php_module.conf
## <<<php_modules>>>
```

```
# menambahkan address pada /etc/hosts
```

```
127.0.0.1 store.skulluglify.com
```

```

# membuat CA Certificate dan Certificate pada Server
# dengan membuat script genkey cert dan pem secara otomatis
# shell script beberapa modified

subject="/C=ID/ST=JavaCenter/L=bandarCity/O=skulluglifyOrgz/OU=IT/emailAddress=skulluglify@outlook.com/CN=store.skulluglify.com"

openssl req -x509 -nodes -new -sha256 -days 3650 -newkey rsa:4096 -keyout ca.key
-out ca.pem -subj $subject

openssl x509 -outform pem -in ca.pem -out ca.crt

certutil -d sql:$HOME/.pki/nssdb -A -t "C,," -n "store.skulluglify.com" -i ca.crt

cat <<EOF >default.conf
authorityKeyIdentifier=keyid,issuer
basicConstraints=CA:FALSE
keyUsage=digitalSignature,nonRepudiation,keyEncipherment,dataEncipherment
subjectAltName=@alt_names
extendedKeyUsage=serverAuth

[alt_names]
DNS.1=store.skulluglify.com
IP.1=192.168.1.8
EOF

openssl req -new -nodes -newkey rsa:4096 -keyout store.skulluglify.com.key -out
store.skulluglify.com.csr -subj $subject

openssl req -in store.skulluglify.com.csr -noout -text

openssl x509 -req -sha256 -days 3650 -in store.skulluglify.com.csr -CA ca.pem
-CAkey ca.key -CAcreateserial -extfile default.conf -out store.skulluglify.com.crt

openssl x509 -in store.skulluglify.com.crt -text -noout

cat <<EOF >vhost.conf
SSLEngine on
SSLCertificateFile      /etc/httpd/conf/server.crt
SSLCertificateKeyFile   /etc/httpd/conf/server.key
EOF

sudo cp -r store.skulluglify.com.crt /etc/httpd/conf/server.crt
sudo cp -r store.skulluglify.com.key /etc/httpd/conf/server.key
sudo systemctl enable --now httpd.service
sudo systemctl restart httpd.service

# dengan menjalankan script ini maka web server apache berhasil terinstall plus ssl
tervalid hanya untuk beberapa browser, untuk test nya tervalid di chrome-google, dan
brave, sedangkan microsoft-edge-dev, dan mozilla masih mendapatkan kendala.

```

## REFERENSI

[https://wiki.archlinux.org/title/Apache HTTP Server](https://wiki.archlinux.org/title/Apache_HTTP_Server)  
<https://andrepavone.com/2021/02/self-signed-ssl-certificate-custom-root-ca/>  
<https://gist.github.com/tiagofreire-pt/4920be8d03a3dfa8201c6afedd00305e>  
<https://gist.github.com/fntlnz/cf14feb5a46b2eda428e000157447309>  
<https://github.com/fatlan/self-signed-certificate-with-custom-ca>