

# APACHE INSTALL GUIDE

**1.3.X VERSION**

**-comodokorea-**

## 1. 사전준비

- mod\_ssl
- OpenSSL
- 

## 2. 주의사항

- 
- CSR

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- 
- 

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- 
- 
- 
- 

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- 443
- VirtualHost
- Error\_log

# 1.

## 1. mod\_ssl

- Apache SSL 모듈 mod\_ssl

### 1. statically linking module 로 설치된 mod\_ssl 모듈확인

```
[root@web1 root]# $HTTPD/bin/httpd -l
Compiled-in modules:
...
mod_ssl.c
...
[root@web1 root]#
```

mod\_ssl.c

### 2. DSO module 로 설치된 mod\_ssl 모듈확인

```
[root@web1 root]# $HTTPD/bin/httpd -l
Compiled-in modules:
...
mod_so.c
...
[root@web1 root]# ls $HTTPD/libexec
httpd.exp
libssl.so
[root@web1 root]#
```

mod\_so.c

libexec libssl.so

# 1.

## 2. OpenSSL

- OpenSSL

```
[root@web1 root]# openssl version
OpenSSL 0.9.8e-fips-rhel5 01 Jul 2008
[root@web1 root]#
```

## 3. 인증서 파일

- 
- 

```
www.domain.com.crt ( .cer)
www.domain.com.key
Verisign_bundle.crt ( .cer)
```

- 1
- 2 ( )
- 3

# 2.

## 1. 신규 및 갱신 구분

- "3-3" "
- .

## 2. CSR 직접 생성 여부

- CSR , Key  
.key
- .key CSR
-

# 3.

## 1. httpd.conf

- Apache Conf                      httpd.conf

### 1. mod\_ssl 모듈을 Load하고 있는지 확인

```
<IfDefine SSL>
LoadModule ssl_module            libexec/libssl.so
</IfDefine>

<IfDefine SSL>
AddModule mod_ssl.c
</IfDefine>

#
```

### 2. 443 포트가 열려있는지 확인합니다.

```
<IfDefine SSL>
Listen 80
Listen 443
</IfDefine>

# 443
```

httpd.conf 파일을 저장합니다.

※ 1번의 mod\_ssl 부분이 없는 경우 1-1-1 의 경우일 것입니다.  
무시하시고 진행하시면 되십니다.

# 3.

## 2. httpd.conf

### 1. VirtualHost

```
<IfDefine SSL>
<VirtualHost *:443>

DocumentRoot "/usr/local/apache-ssl/htdocs"
ServerName www.comodokorea.co.kr
ServerAdmin admin@comodokorea.co.kr
ErrorLog /usr/local/apache-ssl/logs/error_log
TransferLog /usr/local/apache-ssl/logs/access_log

SSLEngine on
SSLCipherSuite ALL:!ADH:!EXPORT56:RC4+RSA:+HIGH:+MEDIUM:+LOW:+SSLv2:+EXP:+eNULL

SSLCertificateFile /usr/local/apache-ssl/conf/ssl.crt/www.comodokorea.co.kr.crt
#      :
SSLCertificateKeyFile /usr/local/apache-ssl/conf/ssl.key/www.comodokorea.co.kr.key
#      :
SSLCertificateChainFile /usr/local/apache-ssl/conf/ssl.crt/Verisign_bundle.crt
#      :

<Files ~ ".(cgi|shtml|phtml|php3?)$" >
    SSLOptions +StdEnvVars
</Files>
<Directory "/usr/local/apache-ssl/cgi-bin">
    SSLOptions +StdEnvVars
</Directory>

SetEnvIf User-Agent ".*MSIE.*" \
    nokeepalive ssl-unclean-shutdown \
    downgrade-1.0 force-response-1.0

CustomLog /usr/local/apache-ssl/logs/ssl_request_log \
    "%t %h %{SSL_PROTOCOL}x %{SSL_CIPHER}x %r" %b"

</VirtualHost>
</IfDefine>
```

# 3.

## 3. 갱신 설치

- , .

## 4. 서비스 재시작

- Apache . ( .)

```
[root@web1 root]# /usr/local/apache-ssl/bin/httpd -t
```

```
Syntax OK
```

설명 : 설정에 구문 오류가 없는지 테스트

### Apache Restart

```
[root@web1 root]# /usr/local/apache-ssl/bin/apachectl stop
```

```
/usr/local/apache-ssl/bin/apachectl stop: httpd stopped
```

```
[root@web1 root]# /usr/local/apache-ssl/bin/apachectl startssl
```

```
[root@web1 root]# ps -ef | grep httpd
```

```
root 5465 5345 pts/1 00:00:00 grep httpd
```

```
root 2724 1 ? 00:00:13 /usr/local/apache-ssl/bin/httpd -DSSL
```



# 4.

## 1. 서비스 구동 확인

- `ps -ef | grep httpd`  
-DSSL

```
[root@www bin]# ps -ef | grep httpd
root      5568      1  0  16:09 ?        00:00:00 /comodokorea/local/bin/httpd -DSSL
nobody    5595    5568  0  16:11 ?        00:00:00 /comodokorea/local/bin/httpd -DSSL
nobody    5602    5568  0  16:14 ?        00:00:00 /comodokorea/local/bin/httpd -DSSL
root      5618    5345  0  16:18 pts/1    00:00:00 grep httpd
```

## 2. 네트워크 상태 확인

- `netstat` **443** **LISTEN**

```
[root@www bin]# netstat -anp | grep httpd
tcp      0      0 0.0.0.0:80          0.0.0.0:*        LISTEN   5568/httpd
tcp      0      0 0.0.0.0:443         0.0.0.0:*        LISTEN   5568/httpd
```

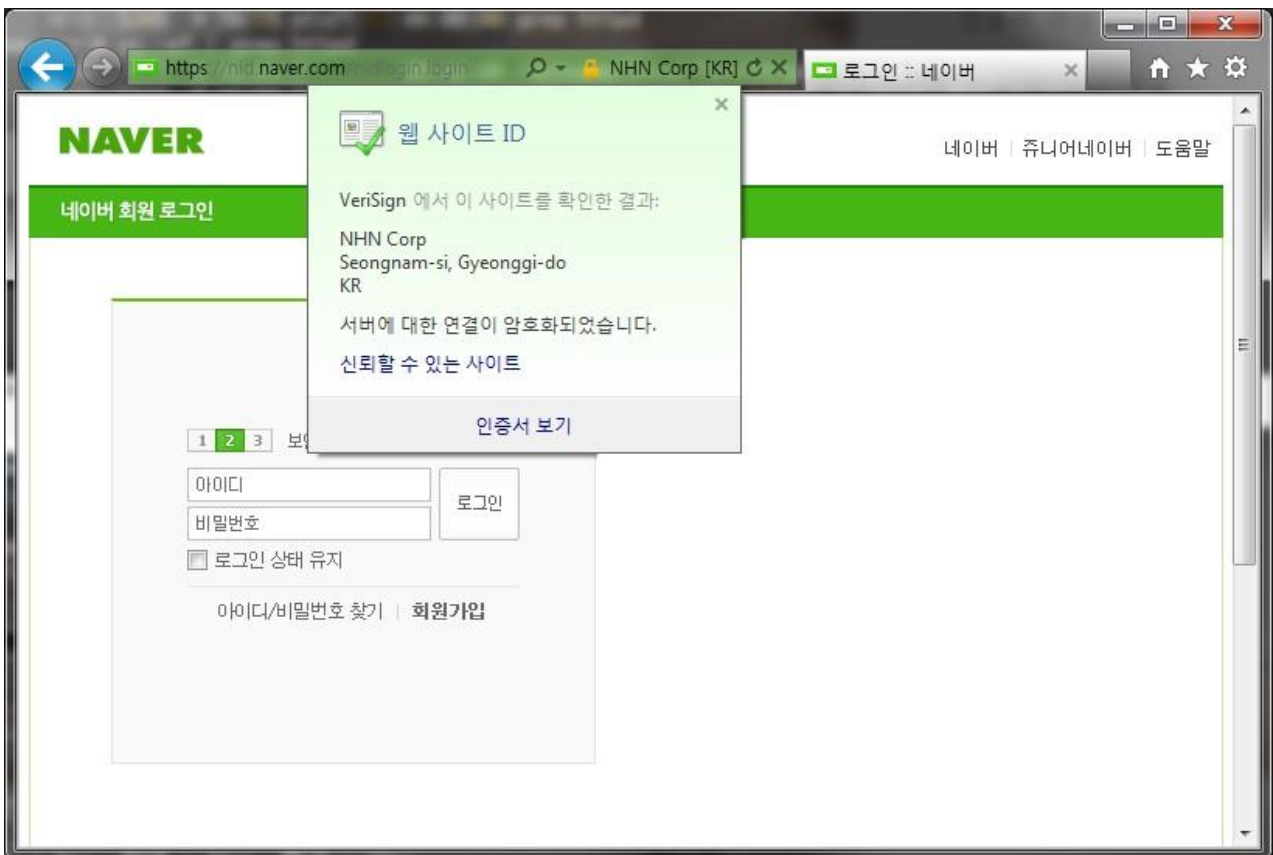
## 3. 방화벽 확인

- `iptables -L` ( ) 443  
80 \_\_\_\_\_ OPEN

# 4.

## 4. 실제 브라우저 테스트

- [https://nhd.naver.com](#)      HTTPS
- [https://nhd.naver.com](#)      HTTPS



# 4.

## 4. 실제 브라우저 테스트

- <http://www.ssltest.net>



# 5.

## 1. \*:80

- "페이지를 표시할 수 없습니다"  
(IE) , SSL 연결 오류입니다.(Chrome)  
<http://www.domain.com:443>  
VirtualHost  
VirtualHost  
<VirtualHost 192.168.1.5>  
  
<VirtualHost 192.168.1.5:80>

## 2. 443 포트

- netstat 443  
LISTEN  
1. httpd.conf ssl module (3.1 )  
2. httpd.conf Listen 443

## 3. VirtualHost 대상

- 1. httpd-ssl.conf <VirtualHost \*:443>  
<VirtualHost 192.168.1.5:443> IP  
<VirtualHost [www.domain.com:443](http://www.domain.com:443)>  
<VirtualHost \_default\_:443>

# 5.

## 5. Error\_log

- logs error\_log
- 

### [Error log]

Syntax error on line 117 of /usr/local/apache2/conf/extra/httpd-ssl.conf:  
SSLCertificateFile: file '/usr/local/apache2/conf/www.domain.com.crt' does  
not exist or is empty

```
# : Syntax Error .
```