

# SSL(https)

- description :
- author :
- email : kimmk@repia.com
- lastupdate : 2021-01-19

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- ) ( ) ~ ( , kimmk.  
2021-01-18)

## SSL ?

SSL Secure Socket Layer  
 HTTPS Hypertext Transfer Protocol 443  
 SSL HTTP

( )

0. https
1. apache가 ( ) 가
2. key , crt . ( . apache가
3. search. .go.kr 가
4. root

( )

1. OS apache

```
[root@search] cat /etc/redhat-release
CentOS release 6.7 (Final)
```

```
[root@search] httpd -version
Server version: Apache/2.2.15 (Unix)
Server built: Jun 19 2018 15:45:13
```

- 2.

```
[root@search] cd /etc/httpd/
[root@search] cp -rf conf conf_20210118
[root@search] cp -rf conf.d conf.d_20210118
```

( )

1. ssl module (mod\_ssl.so )

```
[root@search] cd /etc/httpd/modules/
[root@search] ls -al mod_ssl.so

# mod_ssl.so가 /etc/httpd/conf.d/ssl.conf
# mod_ssl.so yum

[root@search] yum install mod_ssl

# OS가 가 (CentOS 6.7 )
Loaded plugins: fastestmirror, refresh-packagekit, security
Setting up Install Process
Determining fastest mirrors
YumRepo Error: All mirror URLs are not using ftp, http[s] or file.
Eg. $ echo "https://vault.centos.org/6.10/updates/x86_64/" >
/var/cache/yum/x86_64/6/updates/mirrorlist.txt/
removing mirrorlist with no valid mirrors:
/var/cache/yum/x86_64/6/base/mirrorlist.txt
Error: Cannot find a valid baseurl for repo: base
# ( google 가 )
[root@search] echo "https://vault.centos.org/6.10/os/x86_64/" >
/var/cache/yum/x86_64/6/base/mirrorlist.txt
[root@search] echo "https://vault.centos.org/6.10/extras/x86_64/" >
/var/cache/yum/x86_64/6/extras/mirrorlist.txt
[root@search] echo "https://vault.centos.org/6.10/updates/x86_64/" >
/var/cache/yum/x86_64/6/updates/mirrorlist.txt
```

2. SSL 443

```
# ( 가 [ OK ]
#
[root@search] service httpd restart
#
[root@search] netstat -anlp | grep 443
tcp 0 0 :::443 :::*
LISTEN 7326/httpd
unix 3 [ ] STREAM CONNECTED 17443 2786/gdm-simple-gre
#Telnet
#Escap character is 가
[root@search] telnet 127.0.0.1
Trying 127.0.0.1...
```

Connected to 127.0.0.1.  
Escape character is '^['.

> 3. ssl.conf

```

#
[root@search] vi /etc/httpd/conf.d/ssl.conf

<VirtualHost _default_:443>
↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
<VirtualHost *:443>
#####

ServerName www.example.com:443
↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
ServerName search.jbe.go.kr
ServerAlias search.jbe.go.kr

#####

SSLCertificateFile /etc/pki/tls/certs/localhost.crt
↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
SSLCertificateFile /etc/httpd/conf.d/star_jbe_go_kr_cert.pem

SSLCertificateKeyFile /etc/pki/tls/private/localhost.key
↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓
SSLCertificateKeyFile /etc/httpd/conf.d/star_jbe_go_kr_key.pem

#####

# 가
# </VirtualHost> 가

223 #Configure mod_jk
224 JkLogFile /var/log/httpd/mod_jk.log
225 JkLogLevel info
226
227 JkLogStampFormat "[%a %b %d %H:%M:%S %Y] "
228 JkRequestLogFormat "%w %V %T"
229
230 #Root context
231 JkMount /*.jsp ajp13
232 JkMount /*.do ajp13

```

, [ssl](#), [httpd](#), [apache](#)

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