

Apache Server CSR 생성

Version 1.0

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▶ 키 생성 및 CSR 생성

>> 키 생성을 위해 OpenSSL 설치 디렉토리에서 아래 명령대로 생성

1. 랜덤 넘버 생성

```
$ openssl md5 * > rand.dat
```

2. 키 쌍 생성

```
$ openssl genrsa -rand rand.cat -des3 1024 > key.pem
```

```
[root@localhost ssl]# pwd
/usr/local/apache/ssl
[root@localhost ssl]# openssl md5 * > rand.dat
[root@localhost ssl]# ls
rand.dat
[root@localhost ssl]# openssl genrsa -rand rand.cat -des3 1024 > key.pem
0 semi-random bytes loaded
Generating RSA private key, 1024 bit long modulus
+++++
+++++
e is 65537 (0x10001)
Enter pass phrase:
Verifying - Enter pass phrase:
[root@localhost ssl]# ls
key.pem rand.dat
```

3. 생성된 키 쌍을 이용하여 CSR 생성

```
$ openssl req -new -key key.pem > csr.pem
```

(Enter PEM pass phrase : key 비밀번호설정)

- Country(국가 코드) :
- State/province (시/도의 전체 이름) :
- Locality(시, 구, 군 등의 이름) :
- Organization(회사 이름) :
- Organization Unit(부서명-예를 들면 전산팀,마케팅팀,운영팀 등) :
- Common Name(host name+ domain name 서비스할 전체 URL) :
"추가 속성"을 입력하라는 메시지가 나타나면 그냥 무시하십시오.

(아래 실행 화면.)

▶ CSR 확인

```
[root@localhost ssl]# openssl req -new -key key.pem > csr.pem
Enter pass phrase for key.pem:
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter ".", the field will be left blank.
Country Name (2 letter code) [GB]:KR
State or Province Name (full name) [Berkshire]:Seoul
Locality Name (eg, city) [Newbury]:Secho-gu
Organization Name (eg, company) [My Company Ltd]:Crosscert
Organizational Unit Name (eg, section) []:IT Team
Common Name (eg, your name or your server's hostname) []:www.test.com
Email Address []:
Please enter the following "extra" attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

4. CSR 값 확인. (vi csr.pem)

```
-----BEGIN CERTIFICATE REQUEST-----
MIIBrTCCARYCAQAwbTElMAkGA1UEBhMCS1IxIDJhMmBhbnVBAgTBBVNiY3VsmREwDwYD
VQQHEwhtZWlnby1ndTESMBAGA1UEChMJQ3Jvc3NjZkxJOMRAwDgYDVQQLEwdJVCBU
ZW50MRUwEwYDVQQDEwx3d3cudGVzdC5jb20wgZBwDQYJKoZIhvcNAQEBBQADgYOA
MIGJAoGBANDW5cjhAngalQP2Dn4M4IRvqxYYv7hZAZdzh167Daoyq219T87IXOC9
D8c3kwmPNLiEMIQPFdkSbPuGLpTiYMPJGJmGFOS7w1ZQKKLIR1e8mQvTwz1RNUPa
sq/U62GzXd1DXsmBkG6s/7SrqPjNswzm9ScfMr/YYgkde7Yns+IXAgMBAAGgADAN
BgkqhkiG9w0BAQUFAAOBgQB5oJungINVQCWwARaK5qEwVr2JhEsASQHTYQxHdXw4
fm1JGafABMFVcyvz2CrpYttYIA51Lr7dsxrUeR/tVZSLNSC6qek/H/WfsuLOvdqC
mZtvRx5a2CQn1qAitth10cl7109bis4oBH/L9I+mK+TTXapMgFdiFuCK00TdfS+H
Pg==
-----END CERTIFICATE REQUEST-----
```

**** CSR(Certificate Signing Request) 즉, 인증서 서명 요청입니다.**

이는 자신이 설치할 웹서버에서 DN값, 각종정보를 암호화한 파일로써 '한국전자인증' 신청란에서 붙여넣으면 됩니다.