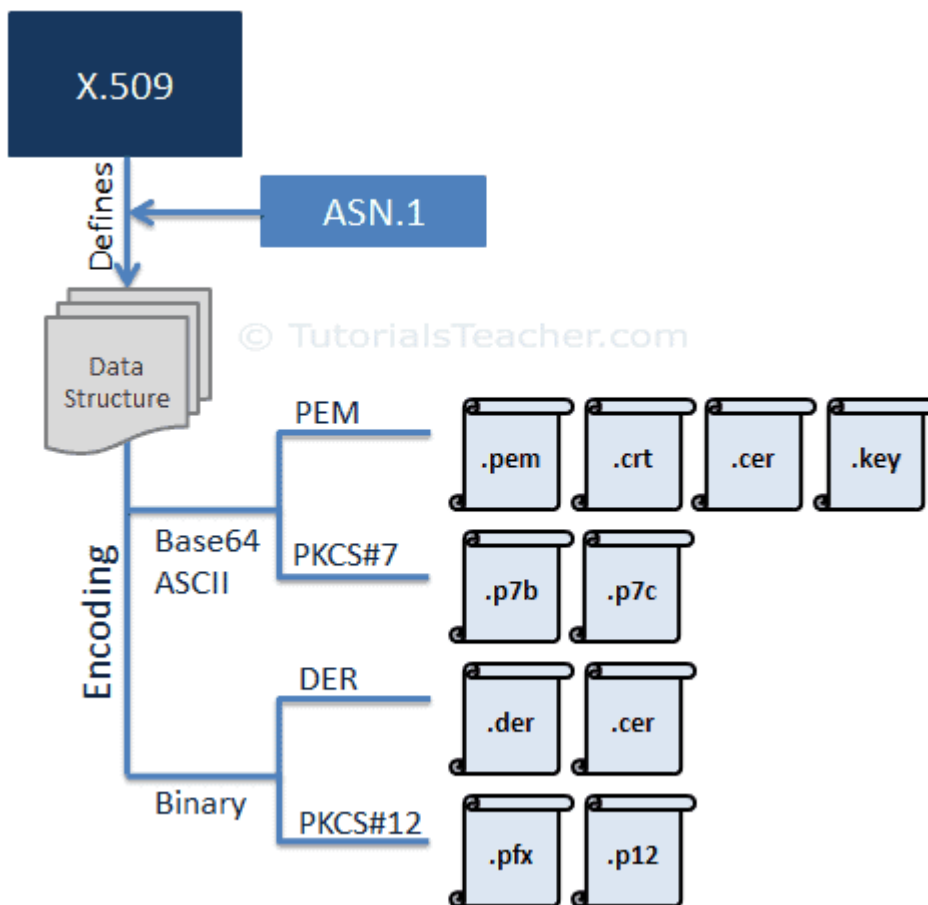


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TLS/SSL

- <https://www.ssllabs.com/> -
- <https://sslmate.com/caa/> - CAA
- DNS CAA ?
- (Diffie-Hellman Key)
- Cipher Suite



<https://www.tutorialsteacher.com/https/ssl-certificate-format>

- PEM(Privacy-enhanced Electronic Mail) : Base64 ASCII encode .pem, .crt, .cer, .key , private key
가 .crt cer 가 key .
- DER(Distinguished Encoding Rules) : binary .der .cer
Java web .
- pfx, p12 ... : PKCS#12(Public Key Cryptography Standards #12)

```
openssl x509 -in cert.crt -outform der -out cert.der
```

Let's Encrypt / certbot

- <https://certbot.eff.org/docs/using.html> Certbot Manual
- [Let's Encrypt\(CertBot\) SSL with HAProxy](#)
- [HAProxy SSL](#)
- [Let's Encrypt\(CertBot\) Wildcard Certificates](#)

certbot

certbot dns 가 http

- http 가
- dns *.domain.com

http my.domain.dom let's encrypt
--standalone dns

----- TXT
--preferred-challenges dns 가 --manual http dns

- (dhparam) 가?

- (dhparam) SSL WAS SSL dhparam
. SSL A dhparam

OpenSSL dhparam

```
openssl dhparam -out dhparam.pem <KEY-SIZE>
# KEY-SIZE 2048 4096
```

dhparam 가 가

<https://ssl-config.mozilla.org/> dhparam

- <https://ssl-config.mozilla.org/ffdhe2048.txt>
- <https://ssl-config.mozilla.org/ffdhe4096.txt>

- <https://rsec.kr/?p=242>
- <https://waspro.tistory.com/479>

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