Assignment OpenSSL certificate generation

Commands:

Microsoft Windows [Version 10.0.19045.5737]

(c) Microsoft Corporation. All rights reserved.

C:\xampp\apache>openssl genrsa -out server.key 2048

C:\xampp\apache>openssl req -new -key server.key -out server.csr -config "C:\xampp\apache\conf\openssl.cnf"

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) [AU]:IN

State or Province Name (full name) [Some-State]:Maharshtra

Locality Name (eg, city) []:Kopargaon

Organization Name (eg, company) [Internet Widgits Pty Ltd]:Sanjivani College

Organizational Unit Name (eg, section) []:IT

Common Name (e.g. server FQDN or YOUR name) []:New server

Email Address []:rk4832931@gmail.com

Please enter the following 'extra' attributes

to be sent with your certificate request

A challenge password []:

An optional company name []:

C:\xampp\apache>openssl x509 -req -days 365 -in server.csr -signkey server.key -out server.crt

Certificate request self-signature ok

subject=C = IN, ST = Maharshtra, L = Kopargaon, O = Sanjivani College, OU = IT, CN = New server, emailAddress = rk4832931@gmail.com

Output:

Certificate Viewer: localhost

General | Details

Issued To

Common Name (CN)   localhost
Organization (O)   <Not Part Of Certificate>
Organizational Unit (OU) <Not Part Of Certificate>

Issued By

Common Name (CN)   localhost
Organization (O)   <Not Part Of Certificate>
Organizational Unit (OU) <Not Part Of Certificate>

Validity Period

Issued On   Wednesday, November 11, 2009 at 5:18:47 AM
Expires On   Saturday, November 9, 2019 at 5:18:47 AM

SHA-256 Fingerprints

Certificate   016973380c0f1df00bd9593ed8d5efa3706cd6df7993f6141272b80522a
                          cdd23
Public Key   9ef15a1ce89f8df6b8fed558a36547e5205501e6b21fe5b00790e4716a3
                          bd248