



SSL Creation

Free SSL Creation in the Lets Encrypt, Please follow the link below

<https://www.digitalocean.com/community/tutorials/how-to-secure-apache-with-let-s-encrypt-on-ubuntu-16-04>

--- OR ---

Required for SSL Creation:

- 1) Domain name provider (Godaddy, Namecheap, My domain)
- 2) Host provider (Aws, Digital ocean)

In your Host Provider,

Step 1: Generate the Private Key

1. Using the Linux instance, run the following command to create the Private Key file.

Note: 2048 bit key lengths or higher is required.

```
openssl genrsa -out yourprivatekey_filename.key 2048
```



Step 2: Generate the **CSR**

1. Run the following command to generate a CSR file based off the Private Key file that was created from Step 1 above.
2. Note: You will be asked for the Private Key's pass phrase created from Step 1 above when running this command.

```
openssl req -new -key yourprivatekey_filename.key -out yourcsr_filename.csr
```

2. Enter the **Distinguished Name (DN)** Fields:

- Country Name: Use the two-letter code without punctuation for country. (ex. US or CA)
- State or Province: Spell out the state name completely. Do not abbreviate the state or province name. (ex. California)
- Locality or City: The Locality field is the city or town name. Do not abbreviate (ex. Saint Louis)
- Organization Name: if the Organization Name (Company Name) has an &, @, or any other special character, the special character must be spelled out or omitted, in order to enroll for a certificate. (ex. XY & Z Corporation would be XYZ Corporation or XY and Z Corporation)



- **Organizational Unit:** The Organizational Unit field can be used as a department name or a naming convention of your choice. To skip this field, press Enter on the keyboard.
- **Common Name:** The Common Name is the Host + Domain Name. It looks like "www.domain.com" or "domain.com". SSL certificates can only be used on web servers using the Common Name specified during enrollment. For example, a certificate for the domain "domain.com" will receive a warning if accessing a site named "www.domain.com" or "secure.domain.com".
- **Email Address:** Don't enter an email address. Leave this field blank and press Enter on the keyboard to skip this field.

Extra Attribute Fields:

- **Challenge password:** Don't enter a Challenge password. Leave this field blank and press Enter on the keyboard to skip this field.
- **An option company name:** Don't enter an option company name. Leave this field blank and press Enter on the keyboard to skip this field.

The CSR file has now been generated. When opening the file to view and send for the enrollment of an SSL certificate, please ensure you use a plain text editor only. (ex. Notepad on Windows or Vi on Linux)

In your Domain provider,



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Step 3: If you already have **crt** files from domain provider, We need to update this in our host provider.

If the Server is : [Apache \(CentOS\), \(UBUNTU\)](#)

We need to update this /etc/apache2/sites-available/Your default conf files (Eg: Default.conf /Your site name.conf)

Referral link : <https://in.godaddy.com/help/install-ssl-certificates-16623> (any other servers)

Go to your your **site.conf** update the key & certificate file location

Step 4: If you don't have crt files, Go to your Domain provider -> Ssl certificate section

Choose your domain & paste your csr file.

Activate ssl , get your crt files & follow step 3

Step 5: At last Please restart your server.
