# How to create an self-signed Certificate with Openssl?

## Step-by-step

Open a terminal window on your system and follow these steps:

1.- Create a new private key

```
sudo openssl genrsa -aes256 -out private.key
```

2.- Generate a certificate

```
sudo openssl req -x509 -days 1000 -new -key private.key -out iam-sync-tenantidp3.soffidnet.pem
```

3.- Export to PKCS12

```
sudo openssl pkcs12 -export -in iam-sync-tenantidp3.soffidnet.pem -inkey private.key -out iam-sync-tenantidp3.soffidnet.pfx
```

```
pgarcia@soffid:~/Descargas/certificate$ openssl genrsa -aes256 -out private.key
Generating RSA private key, 2048 bit long modulus (2 primes)
.....................................+++++
.............+++++
e is 65537 (0x010001)
Enter pass phrase for private.key:
Verifying - Enter pass phrase for private.key:
pgarcia@soffid:~/Descargas/certificate$ openssl req -x509 -days 1000 -new -key private.key -out iam-sync-tenantidp3.soffidnet.pem
Enter pass phrase for private.key:
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.
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Country Name (2 letter code) [AU]:ES
State or Province Name (full name) [Some-State]:Andalucia
Locality Name (eg, city) []:Sevilla
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Soffid
Organizational Unit Name (eg, section) []:Soffid
Common Name (e.g. server FQDN or YOUR name) []:iam-sync-tenantidp3.soffidnet
Email Address []:pgarcia@soffid.com
pgarcia@soffid:~/Descargas/certificate$ ll
total 48
drwxrwxr-x 2 pgarcia pgarcia  4096 mar 23 16:51 ./
drwxr-xr-x 6 pgarcia pgarcia 32768 mar 23 16:36 ../
-rw-rw-r-- 1 pgarcia pgarcia  1497 mar 23 16:51 iam-sync-tenantidp3.soffidnet.pem
-rw------- 1 pgarcia pgarcia  1766 mar 23 16:51 private.key
pgarcia@soffid:~/Descargas/certificate$ openssl pkcs12 -export -in iam-sync-tenantidp3.soffidnet.pem -inkey private.key -out iam-sync-ten
antidp3.soffidnet.pfx
Enter pass phrase for private.key:
Enter Export Password:
Verifying - Enter Export Password:
```

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