Step to create certificate:--

1. Go to ZeroSSL site “[https://app.zerossl.com](https://app.zerossl.com/)”.
2. Login in or make new account on it.
3. Click on “new Certificate” option.
4. Add your domain name
5. Check on 90 days certification
6. Add your CSR and contacts
7. And select plan -- $0/month
8. Then verify your domain by HTTP file upload option.
9. You will get a file to download.
10. Add this file in staticFiles folder of your project in /.well-known/pki-validation/ folder.

Ex:-  public/.well-known/pki-validation/downlaodedFle.txt

1. Then start your server and click on the given link of the ZeroSSL form.
2. It will verify your domain.
3. Then it will give you option to download the certificate and its key in any format.
4. Download it in UBUNTU type.
5. Your 3 month certificate is created.

(Note- you have to update it before 3 month)

**Add this certificate to your Project:--**

1. Your certificate is in X.509 format(certificate.crt, CA\_bundle.crt and private.key). We have to convert it into .jks file.
2. We will convert X.509 -> .PKCS12 -> .JKS

Run below command on your terminal

 openssl pkcs12 -export -chain -CAfile ca\_bundle.crt -in certificate.crt -inkey private.key -out mykeystore.pkcs12 -name java

keytool -importkeystore -srckeystore mykeystore.pkcs12 -srcstoretype pkcs12 -srcalias java -destkeystore mykeystore.jks -deststoretype jks -destalias mykey

1. Your mykeystore.jks file is ready.
2. Paste this file to project’s deploy folder

Ex. deploy/mykeystore.jks

1. Add this to your project by writing below code in your SparkJava main class, above all routes -

           secure("/deploy/mykeystore.jks", "Nihar08@", null,null);

1. Your project gets a https access without any warning message.(authenticated)