Spring boot restful HTTPS request with SSL certitifcate

Step 1: Download Client Certificate which should contain .p12/.pfx file and Passphrase (ask client to provide the Passphrase):

nxws-pre.mo2o.com_client-web	Security Certificate
nxws-pre.mo2o.com_client-web	Personal Information Exchange
nxws-pre.mo2o.com_client-web.key	KEY File
nxws-pre.mo2o.com_client-web.pem	PEM File

Step 2: Run keytool command to generate keystore. When keytool command is successful then the file will be stored in C: \Users\[YOUR_ACCOUNT]\ [NEW_KEYSTORE_NAME.jks]

keytool -importkeystore -v -srckeystore [PATH_CLIENT_CERTIFICATE/file.p12] -srcstoretype PKCS12 -destkeystore [NEW_KEYSTORE_NAME. jks] -deststoretype JKS

After running above command, it will prompt with questions:

Enter destination keystore password: changeit Default password Re-enter new password: changeit Enter source keystore password: [Client Certificate Passphrase]

Step 3: To check keystore is successfully generated

keytool -list -v -keystore C:\Users\[YOUR_ACCOUNT]\ [NEW_KEYSTORE_NAME.jks]

After running above command, it will prompt with questions:

Enter keystore password: changeit

```
A keytool -list -v -keystore C:\Users\mmohamed\test.jks
Enter keystore password:
Keystore type: JKS
Keystore provider: SUN

Your keystore contains 1 entry

Alias name: 1
Creation date: 04-Dec-2018
Entry type: PrivateKeyEntry
Certificate (name): 1
Certificate (name): 1
Certificate[1]:
Owner: EMAILADDRESS=web@moZo.com, CN=nxws-pre.moZo.com, OU=NationalExpress, O=MOZO, L=Madrid, ST=MD, C=ES
Issuer: EMAILADRESS=web@moZo.com, CN=nxws-pre.moZo.com
```

Step 4: Place keystore into the Spring boot workplace:



Step 5: change in YML file add jks file location and Client Certificate Passphrase

HttpEntity<MO2OHashRequestCommand> requestEsbEntity = new HttpEntity<>(payload, headers);

requestEsbEntity, MO2OHashResponeCommand.class);

```
📄 *application.yml 🛭
126 umbraco:
127 nearestStationUrl:
      from: https://www.nationalexpress.com/umbraco/api/stationsapi/nearby
128
129
       to: https://www.nationalexpress.com/umbraco/api/stationsapi/nearby
130 mobileOneTwoOne:
131 hashRequestEndpointUrl: https://nxws-uat.mo2o.com/en/v1/purchaseAck/post
132 keystorePath: ../ssl/mo2o/uat/mo2o-uat.jks
      keystorePassword: changeit
 134 certPassPhrase: Client Certificate Passphrase
135 covergenius:
136 skus: H61H001, H61H002, H61H003
137
138 featureSwitches:
 139 linkTicketFlag: false
140 travelTicketEmail: true
141 esbConfirmationEmail: false
142
Step 6: Last step making a call https request
keystorePath = "ssl/mo2o/dev";
keystorePassword = "changeit";
certPassPhrase = "[Client Certificate Passphrase]";
SSLContext sslContext = SSLContextBuilder.create().loadKeyMaterial(ResourceUtils.getFile("classpath:" + keystorePath), keystorePassword.
toCharArray(), certPassPhrase.toCharArray()).build();
HttpClient client = HttpClients.custom().setSSLContext(sslContext).build();
HttpComponentsClientHttpRequestFactory requestFactory = new HttpComponentsClientHttpRequestFactory(client);
RestTemplate restTemplate = new RestTemplate(requestFactory);
HttpHeaders headers = new HttpHeaders();
headers.setContentType(MediaType.APPLICATION_JSON);
```

ResponseEntity<MO2OHashResponeCommand> responseMo2o = restTemplate.exchange(hashRequestEndpointUrl, HttpMethod.POST,

Coach to Mo2o Environment details :

which mo2o env will be used by our which env is detailed below :

 $\label{eq:decomposition} \begin{tabular}{ll} DT5, DT3, PERF, DT2, DT4 is pointing to $https://nxws-uat.mo2o.com/en/v1/purchaseAck/post $$PROD$ is pointing to $https://nxws.mo2o.com/en/v1/purchaseAck/post $$production of the production of the pr$

Note: THIS ONLY BE TESTABLE on STABLE(DT3).