

Enable HTTPs API calls with Nodered

Step 1:

#Create privkey.pem and cert.pem with openSSH

```
#Go to the /data folder for nodered
#Create privkey.pem
openssl genrsa -out privkey.pem
```

```
#The output should look like:
Generating RSA private key, 1024 bit long modulus
.....+++++
.....+++++
e is 65537 (0x10001)
```

#Create cert.pem

```
openssl req -new -x509 -key privkey.pem -out cert.pem -days 1095
#The output should look like:
```

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]:US
State or Province Name (full name) [Some-State]:<Your Name>
Locality Name (eg, city) []:Highlands
Organization Name (eg, company) [Internet Widgits Pty Ltd]:Node-RED
Organizational Unit Name (eg, section) []:GBS
Common Name (e.g. server FQDN or YOUR name) []:nodered
Email Address []:<Your e-mail address>
```

Step2:

Edit the settings.js file

```
#Uncomment the fs module section
```

```
/ The `https` setting requires the `fs` module. Uncomment the following
```

```
// to make it available:
```

```
var fs = require("fs");
```

```
@Edit the https settings
```

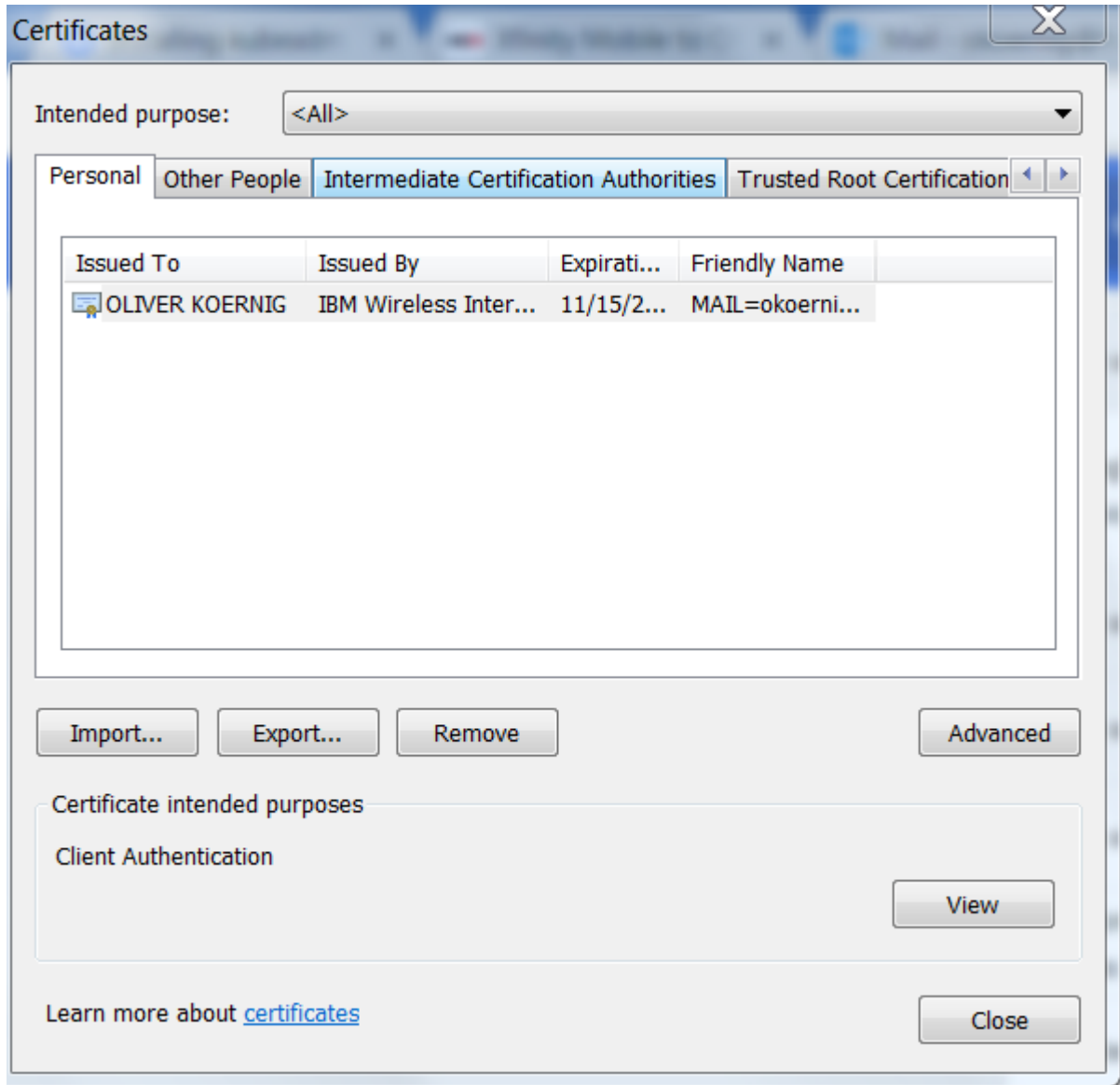
```
https: {
  key: fs.readFileSync('/data/privkey.pem'),
  cert: fs.readFileSync('/data/cert.pem')
},
```

Step 3:

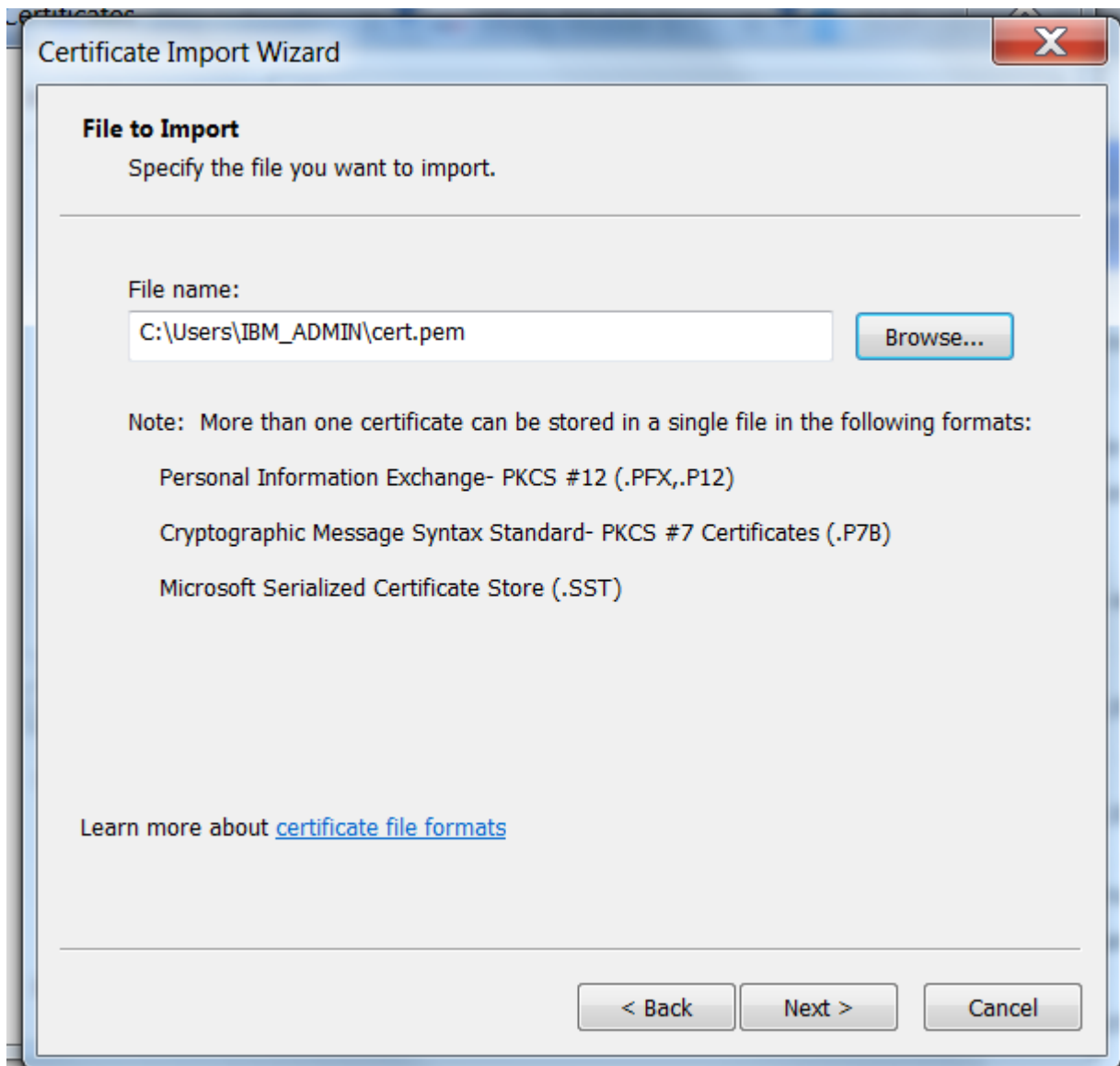
Redeploy the docker image locally or via Kubernetes

Step 4:

Open Google Chrome. Open the certificate settings:



Import the cert.pem file from step 1



Step 4:

Open postman. Test a UCG flow call with https:

