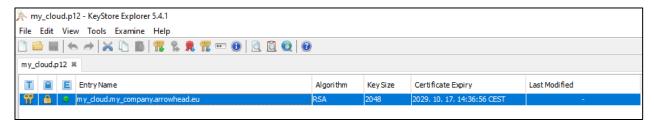
CREATE ARROWHEAD CLIENT SELF SIGNED CERTIFICATE with KeyStore Explorer 5.4.1

KeyStore Explorer is a free GUI tool for managing certificates, which is available for all common operation systems: https://keystore-explorer.org/downloads.html

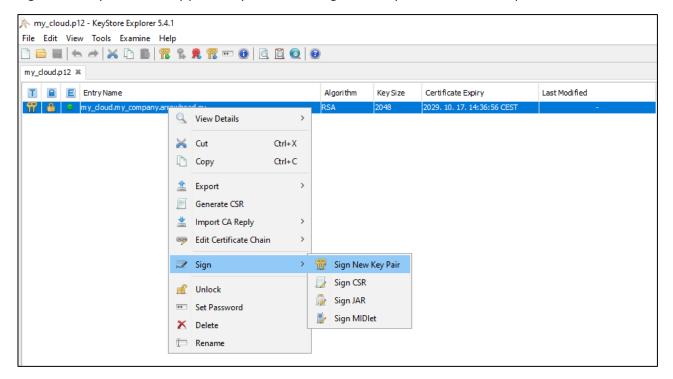
1st STEP:

Open your cloud p12 certificate file.



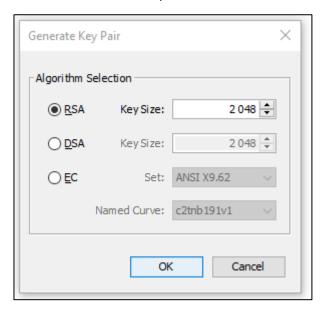
2nd STEP:

Right click on your cloud key pair entry and select "Sign New Key Pair" and enter its password:



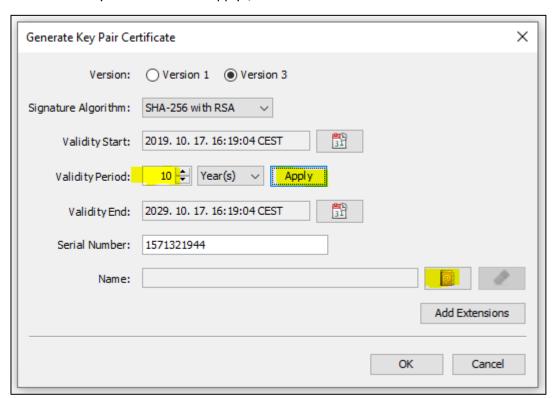
3rd STEP:

Select "RSA" and set "Key Size" to 2048:



4th STEP:

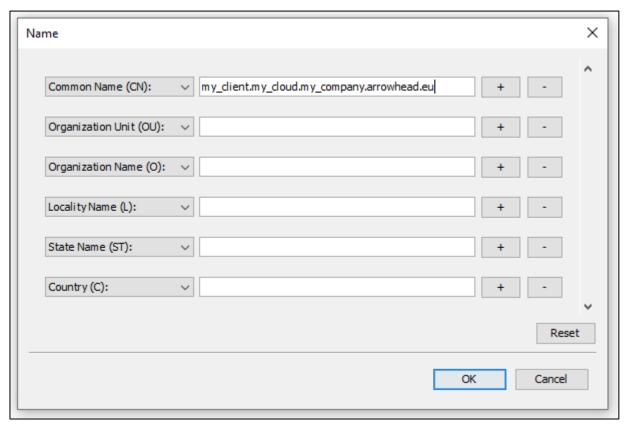
Set the "Validity Period" and hit "Apply", then click on "Edit name":



5th STEP:

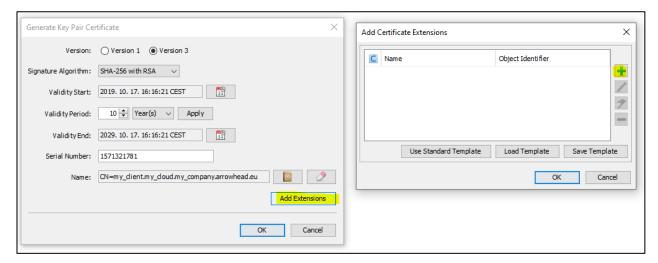
Fill out the "Common Name (CN)" and hit "OK". The certificate naming convention have strict rules:

- The different parts are delimited by dots, therefore parts are not allowed to contain any of them.
- A client certificate name has to consist of five part and the last two part have to be 'arrowhead' and 'eu'.



6th STEP:

Click on "Add Extension", then on the green "+" button:



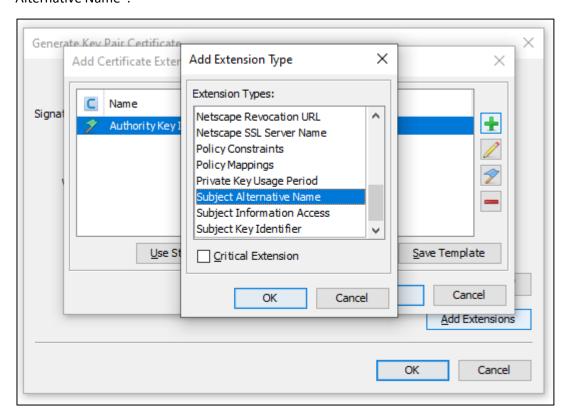
7th STEP:

Select "Authority Key Identifier", then click on "key" button and select "160-bit Hash":

Key Identifier:		
Authority Cert Issuer:	General Name Directory Name Key Identifier Generation Method: include: i	±
Authority Cert Serial Number:	OK Cancel 1557479085	OK Cancel

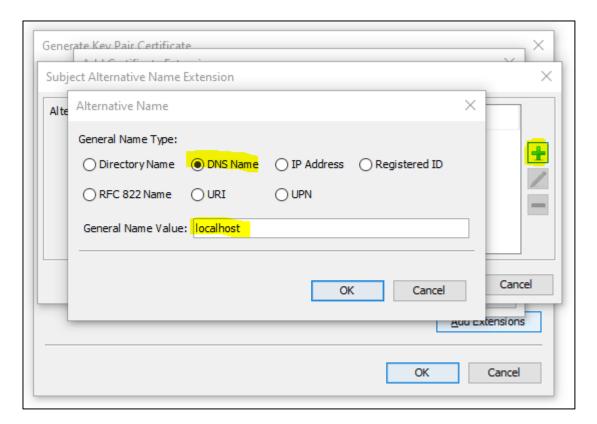
8th STEP:

Click again on green "+" button of the "Add Certificate Extensions" window and choose "Subject Alternative Name":



9th STEP:

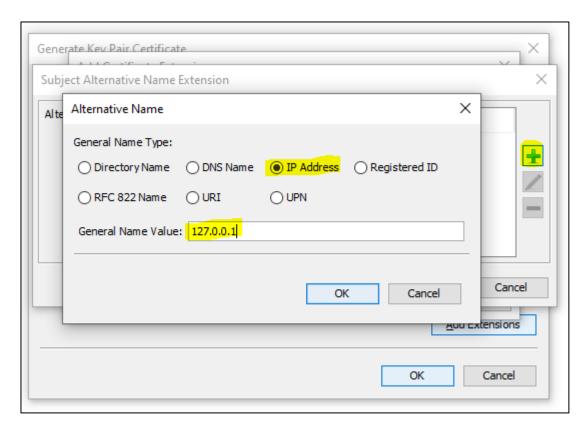
Click on green "+" button, select "DNS Name" and fill the "General Name Value" with "localhost" and press "OK":



Repeat if you want to add your other DNS Name (for accessing remote services).

10th STEP:

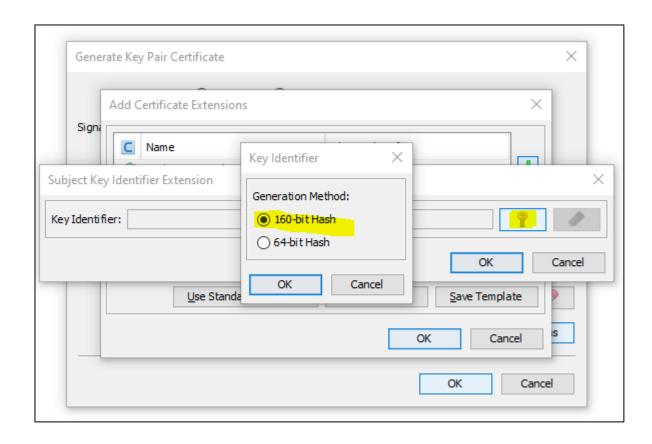
Click on green "+" button again, select "IP Address" and fill the "General Name Value" with "127.0.0.1" and press "OK":



Repeat if you want to add your other IP Address (for accessing remote services).

11th STEP:

Click again on the green "+" button of "Add Certificate Extensions" window, select "Subject Key Identifier", then click on "key" button and selest "160-bit Hash":



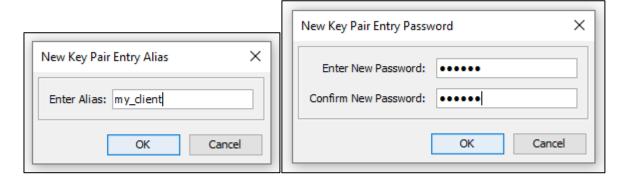
12th STEP:

Click on "OK" button of "Generate Key Pair Certificate" window:



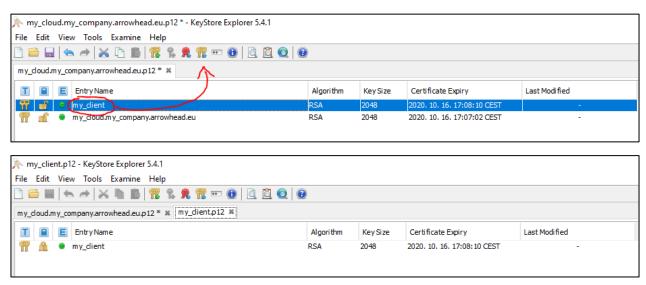
13th STEP:

Set alias (eg.: "my_client"), then give a password.



14th STEP:

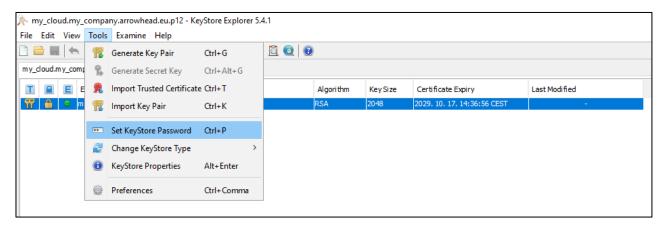
Drag & Drop your newly created key-pair entry to a new tab (It will ask for the password given in the step before.):



Close the "my_cloud.p12" and DO NOT SAVE THE CHANGES!

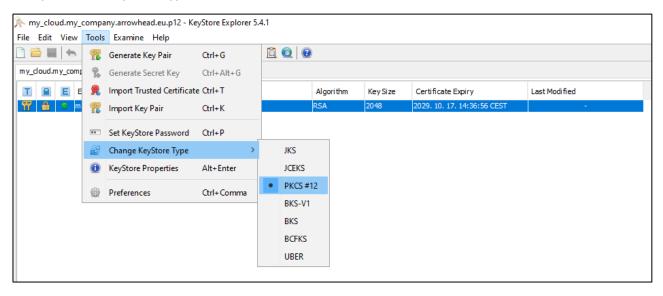
15th STEP:

Click on "Tools" menu and set the "KeyStore Password" (It must be the same as the key-pair password given in the 13th step.):



16th STEP:

Verify that the "KeyStore type" is settled to "PKCS#12":



15th STEP:

Save your new key-pair certificate as my_cloud.p12.

("File"->"Save as"-> declare the extension as ".p12")

