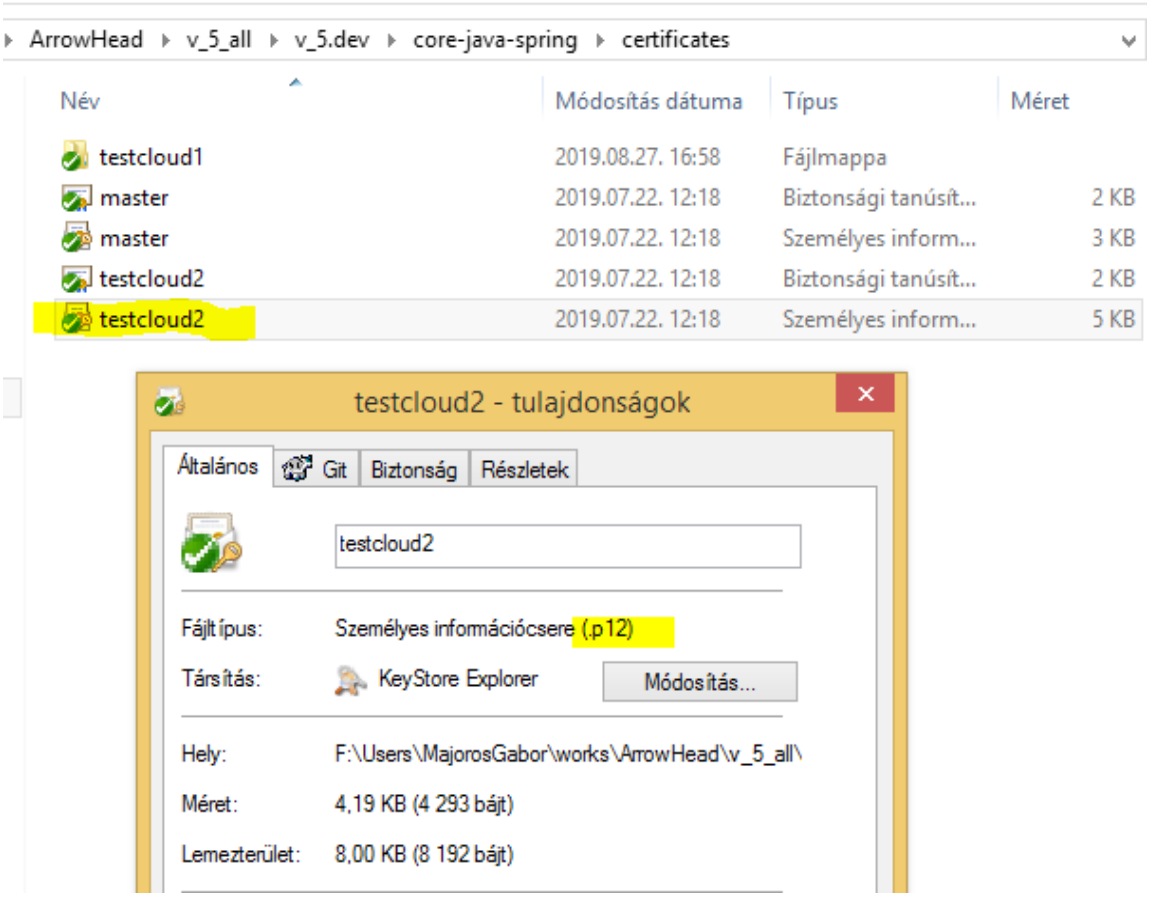
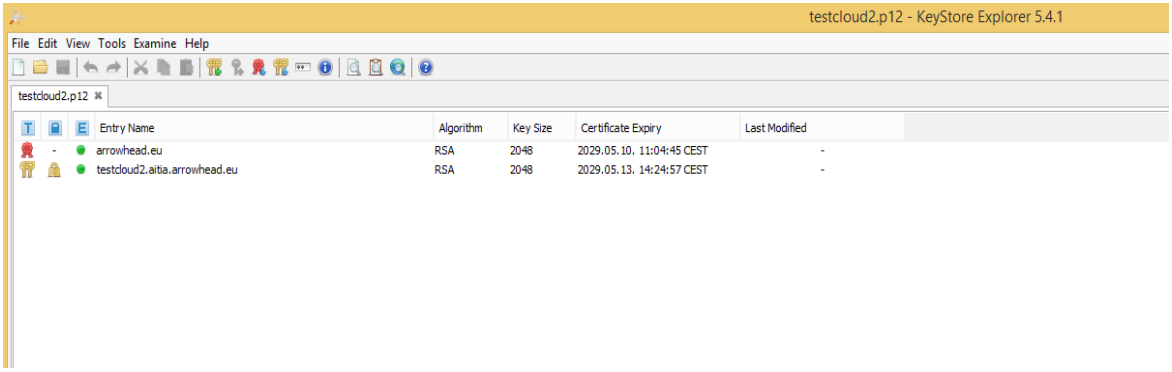
Sample Client System Certificate Generation _ With KeyStoreExplorer 5.4.1

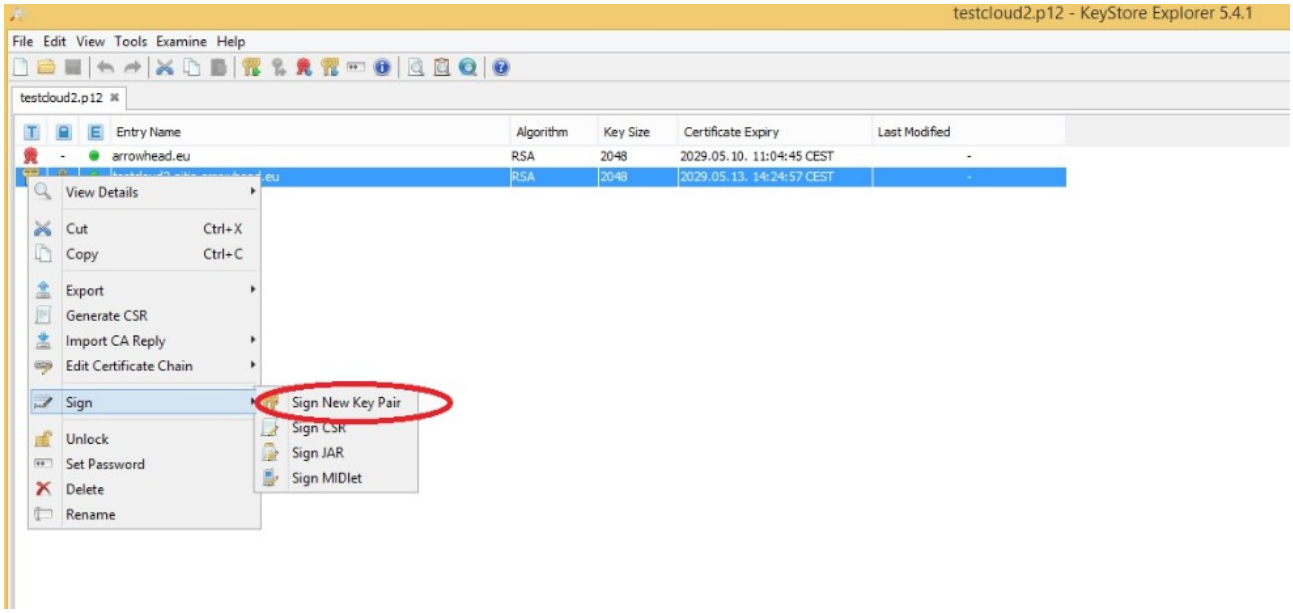
Start with cloud certificate:



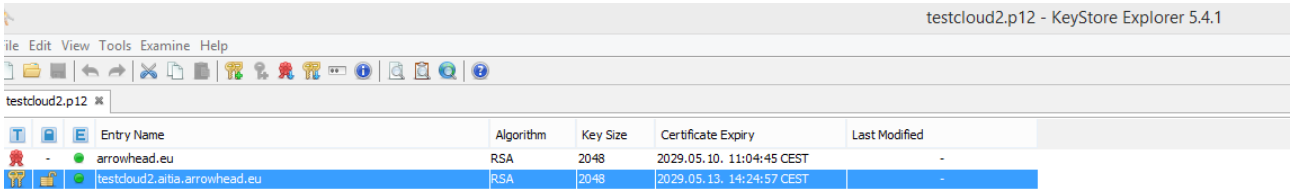
Open it with KeyStoreExplorer:

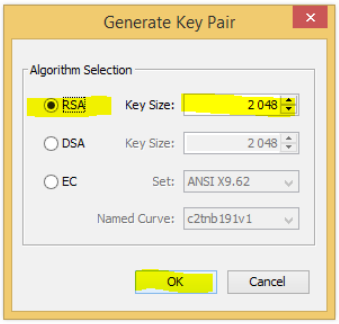


Right-click on keyPair and select SignNewKeyPair:

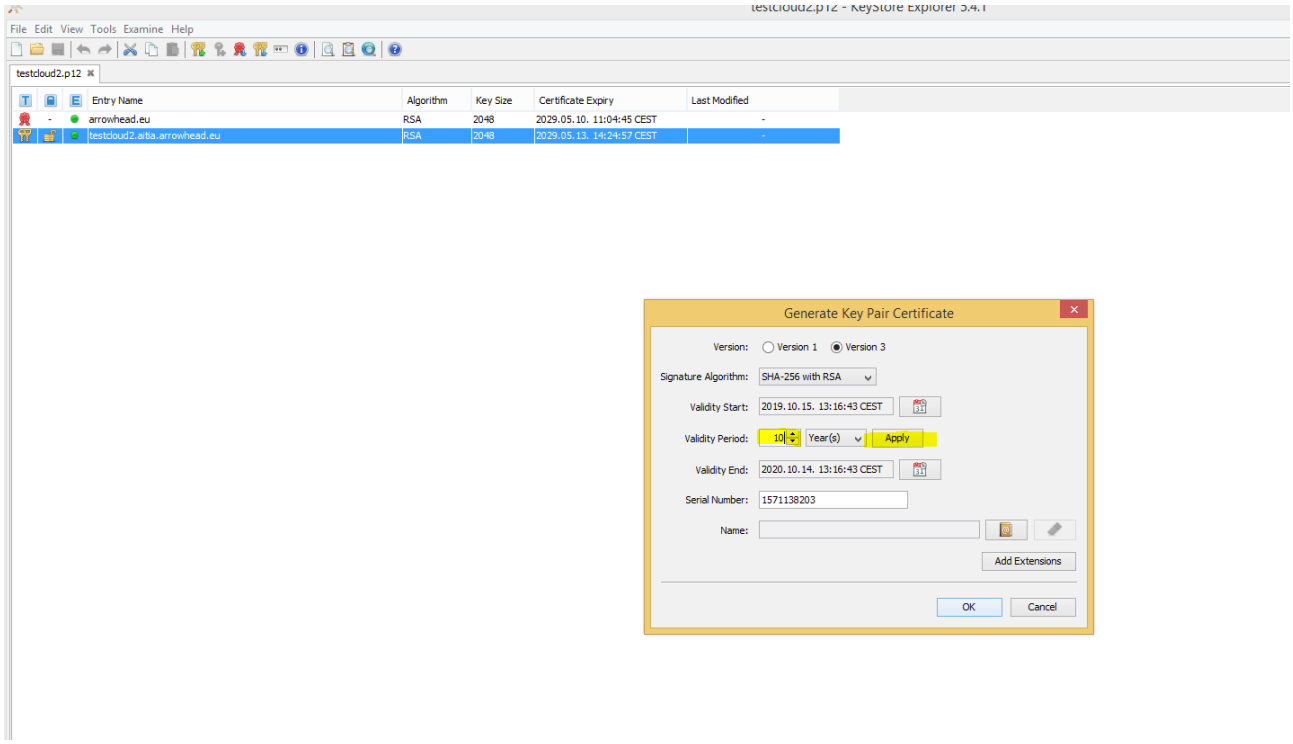


Select RSA.
Set Key Size to 2048.
Then click Ok on Generate Key Pair popup window.

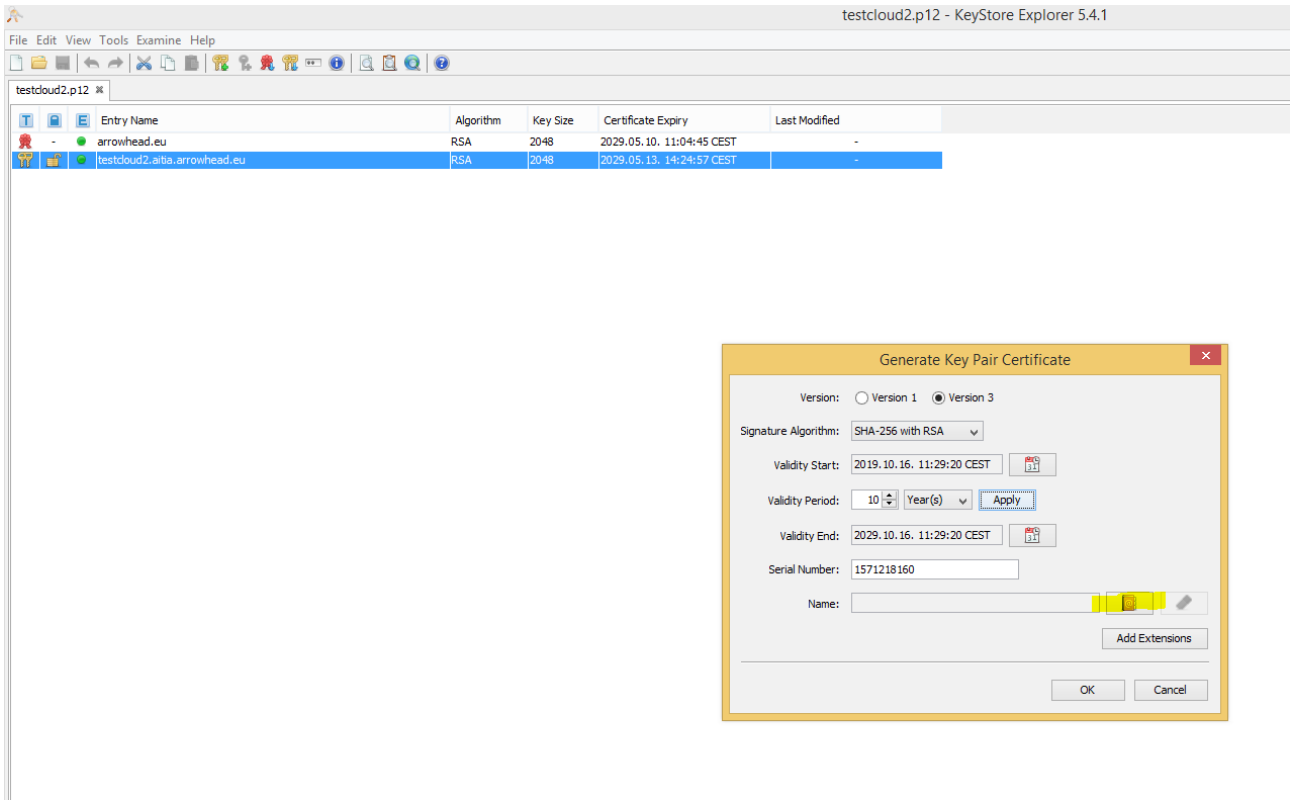




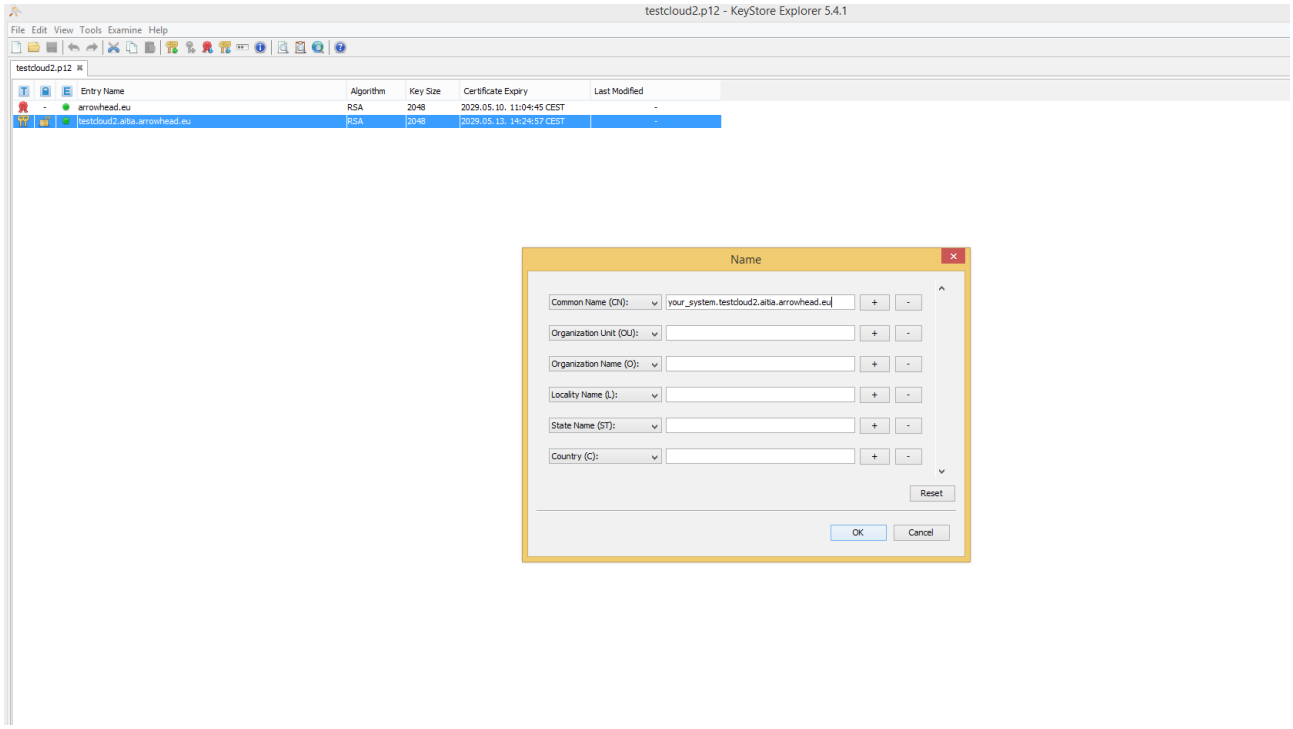
Set validity Period to 10 year.
Click Apply !



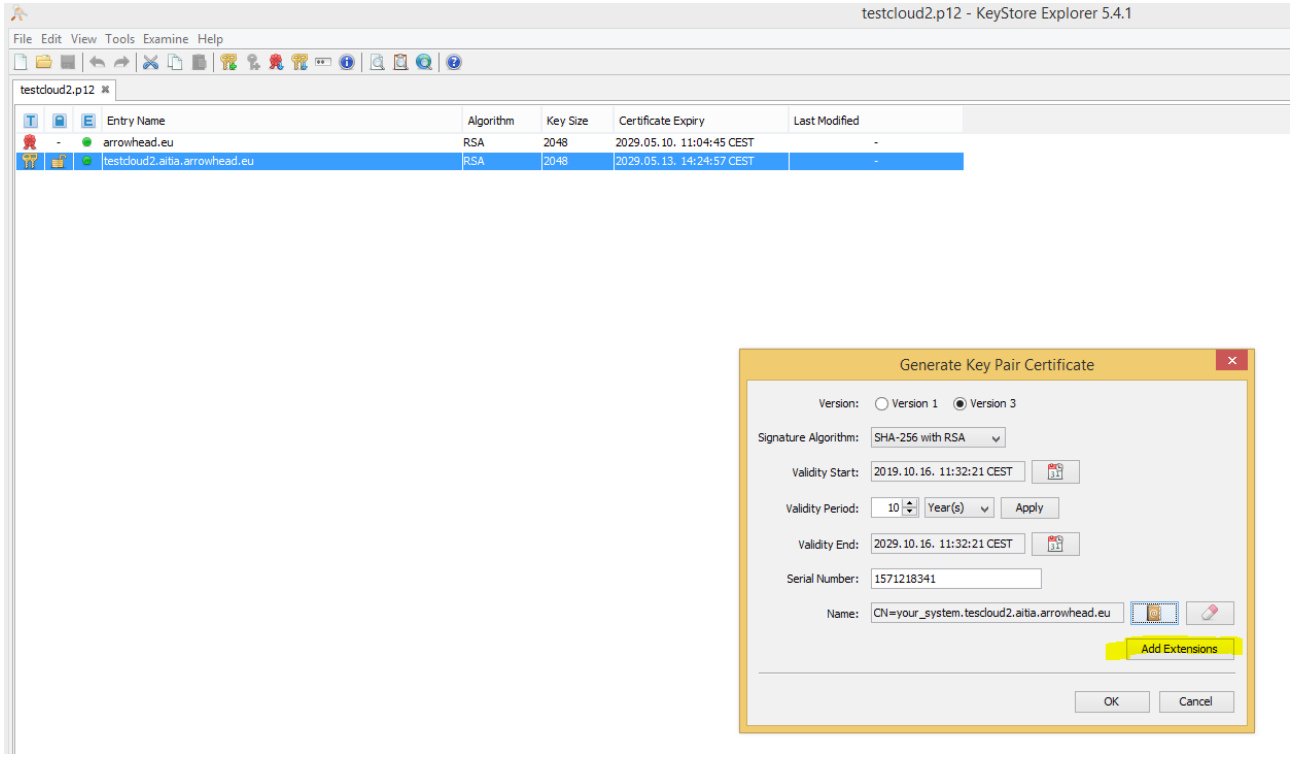
Click on Edit name (Symbol of a book with @ sign).



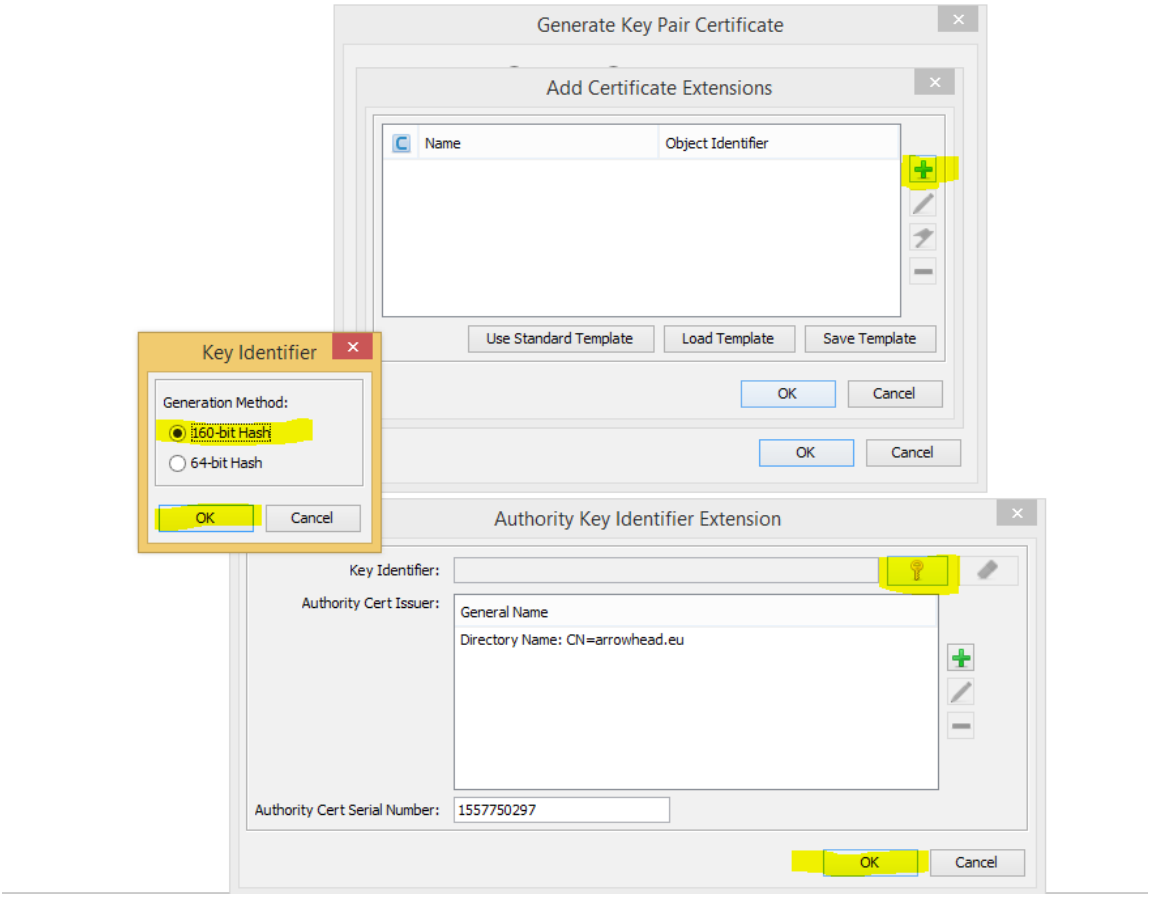
Set Common Name (CN).
Example: your_system.testcloud2.aitia.arrowhead.eu
Then click Ok on Name popup window.



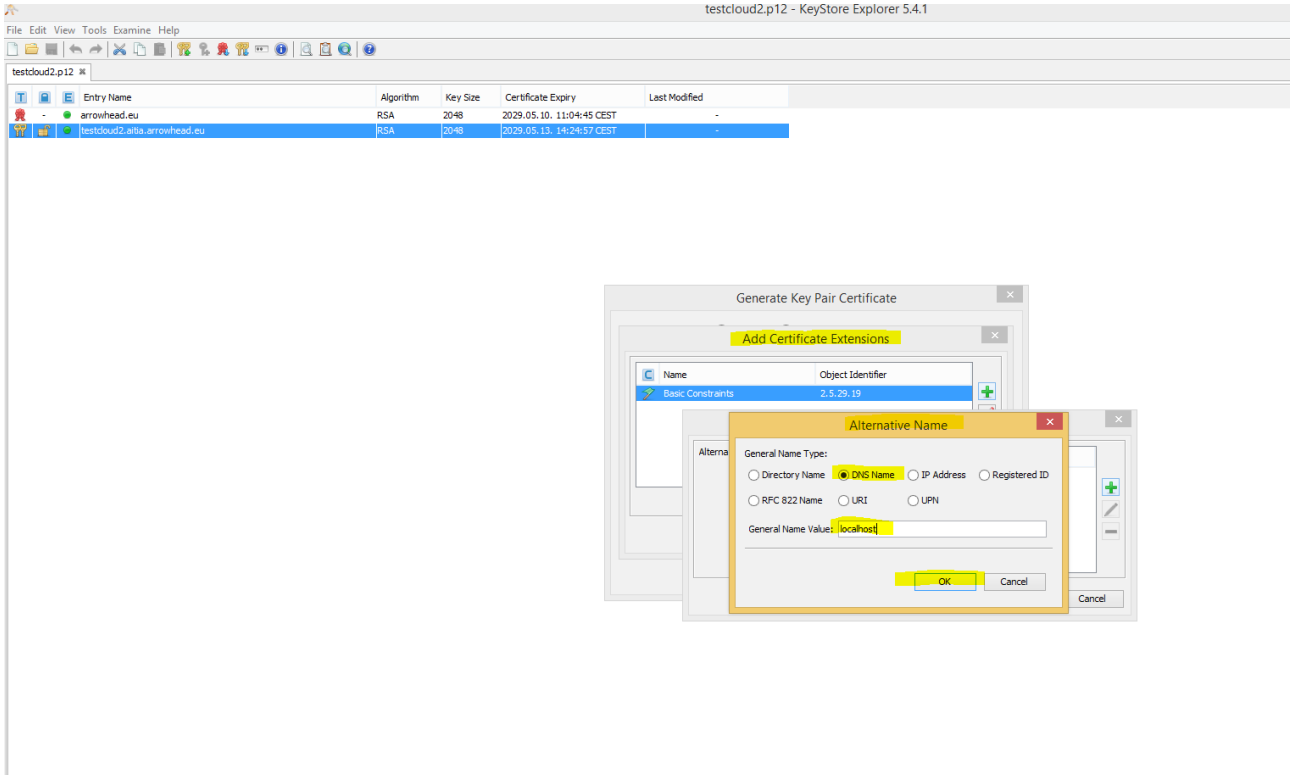
Click Add Extensions



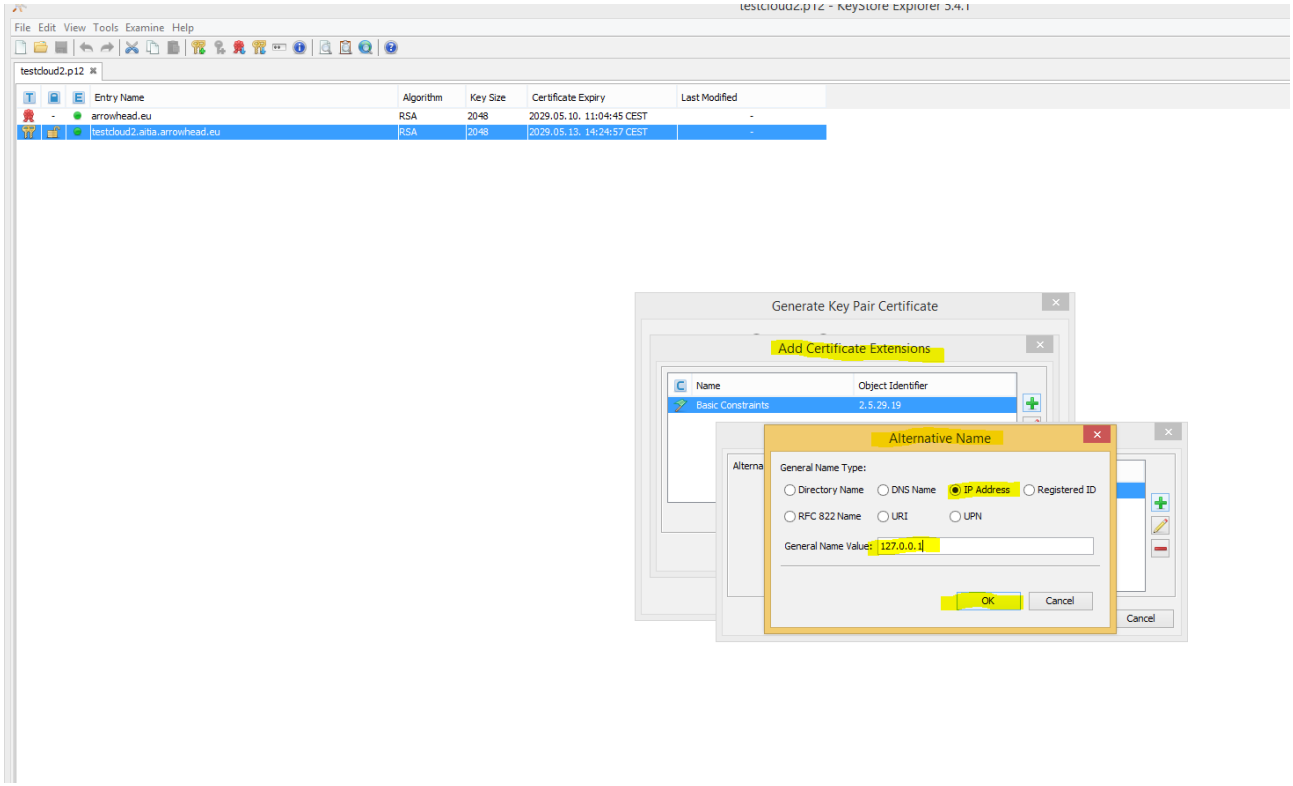
Click green +.
Select Add Authority Key Identifier.
Click key symbol.
Select the 160-bit Hash.
Click Ok on Key Identifier popup window.
Then click Ok on Authority Key Identifier Extension popup window.



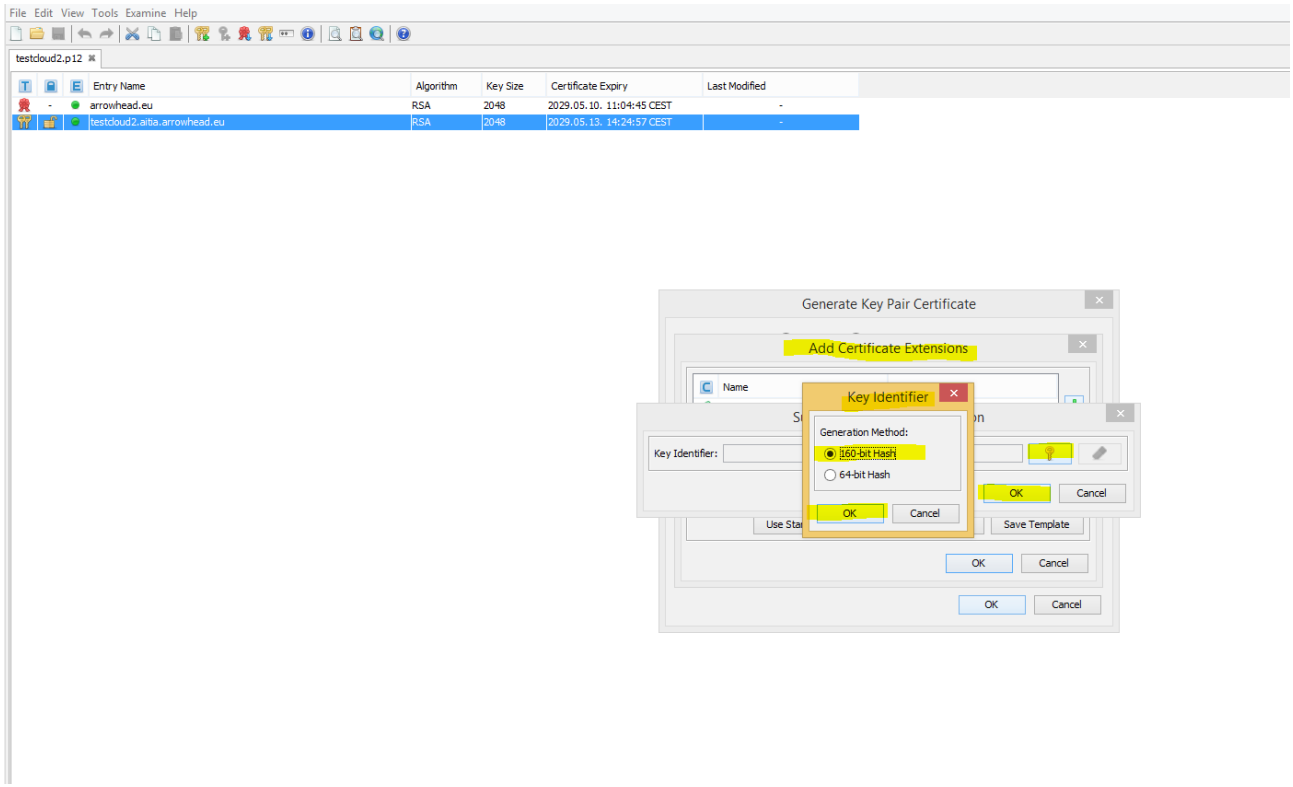
Click green +.
Select Add Subject Alternative Name.
Select DNS Name
Set General Name Value: localhost
Then click ok on the Alternative Name popup window.
Repeat if you want to add your other DNS Names (for accessing remote services).



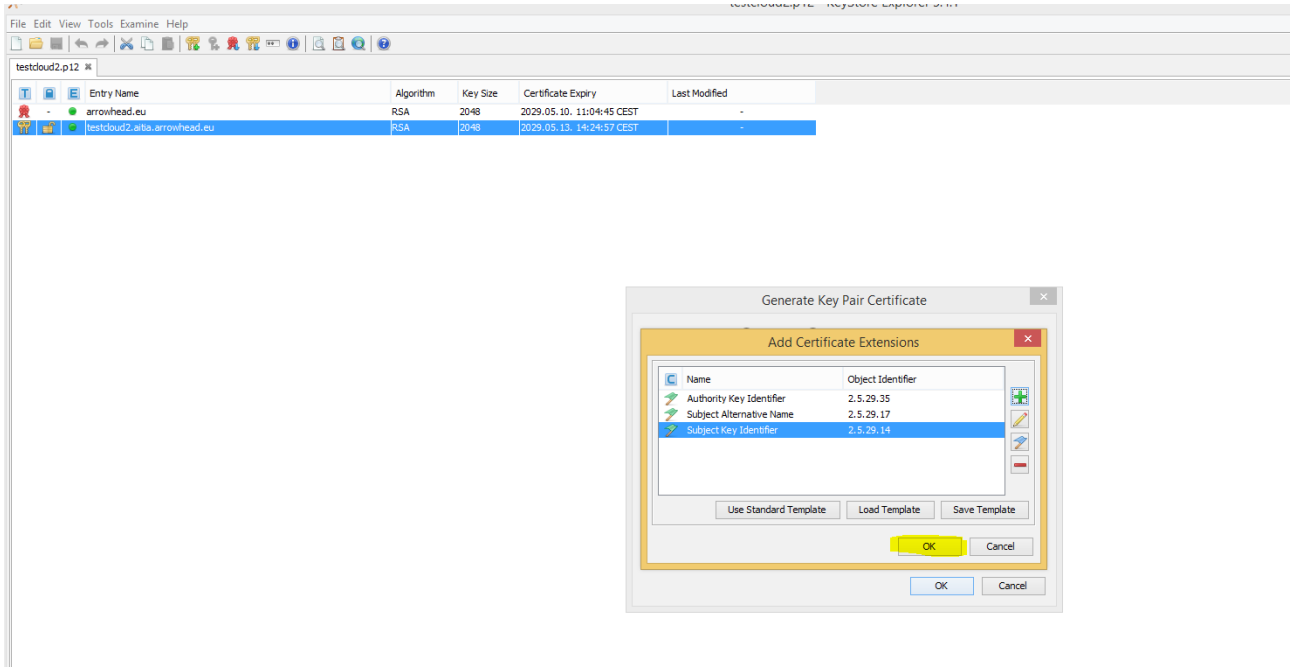
Click green +.
Select IP Address
Set General Name Value: 127.0.0.1
Then click ok on the Alternative Name popup window.
Repeat if you want to add your other IP Address (for accessing remote services).
Then click ok on Subject Alternative Name Extention popup window.



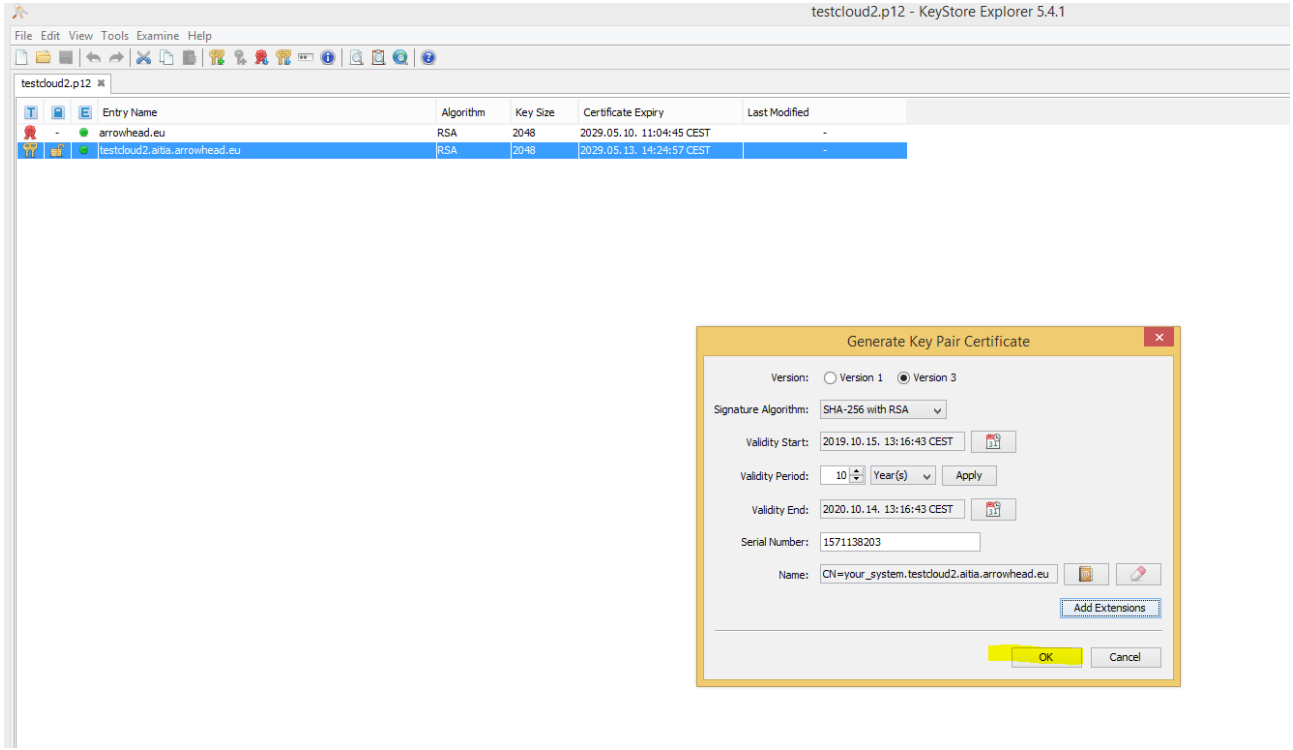
Click green +.
Select Subject Key Identifier
Click Ok on Add Extention Type popup window.
Click on the key symbol.
Select a 160-bit Hash.
Click Ok on Key Identifier popup window.
Click Ok on Subject Key Identifier popup window.



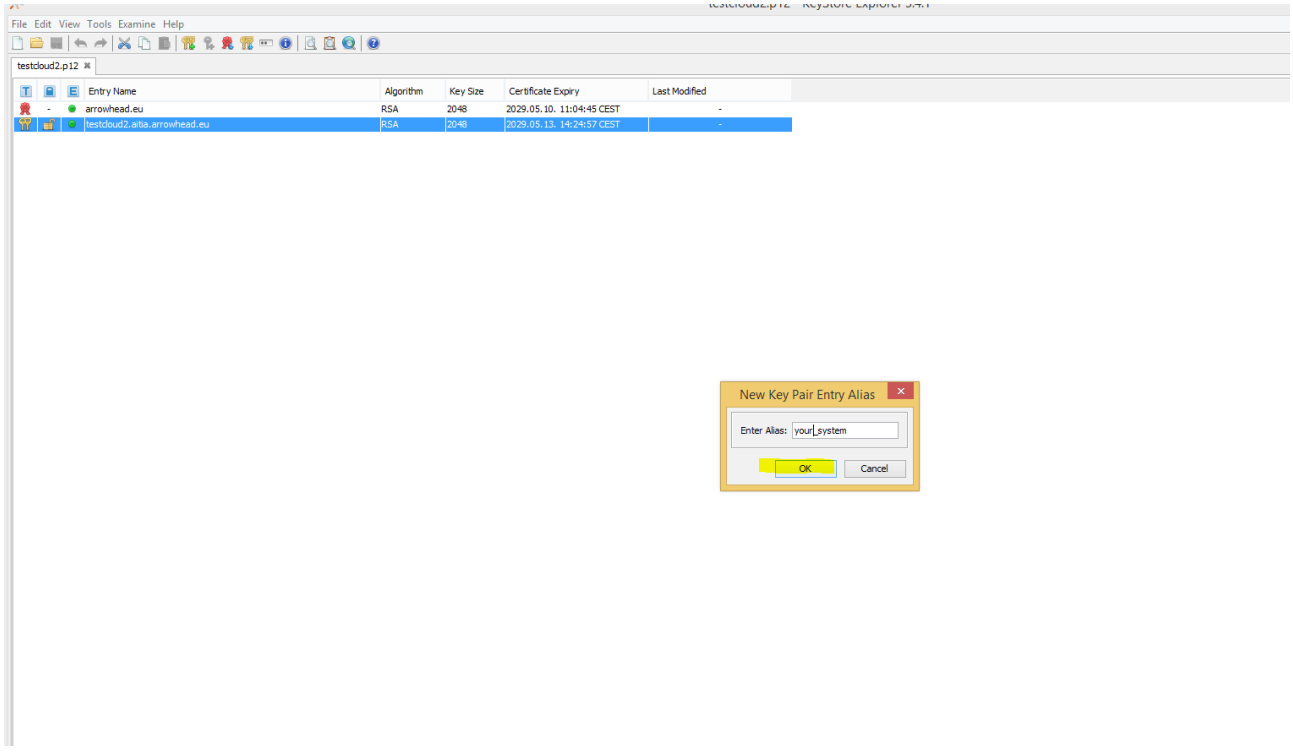
Finished adding extensions - Click Ok on Add Certificate Extensions popup window.



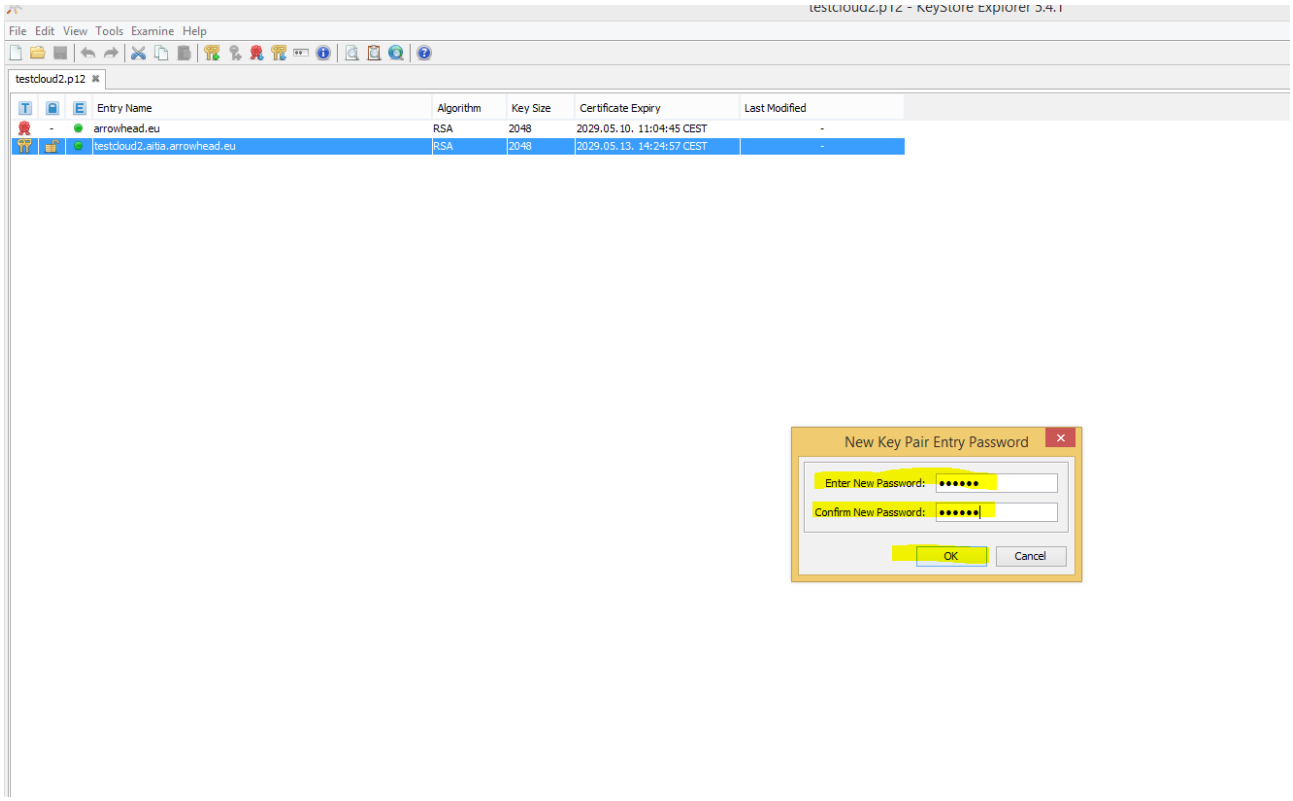
Click Ok on Generate Key Pair Certificate popup window.



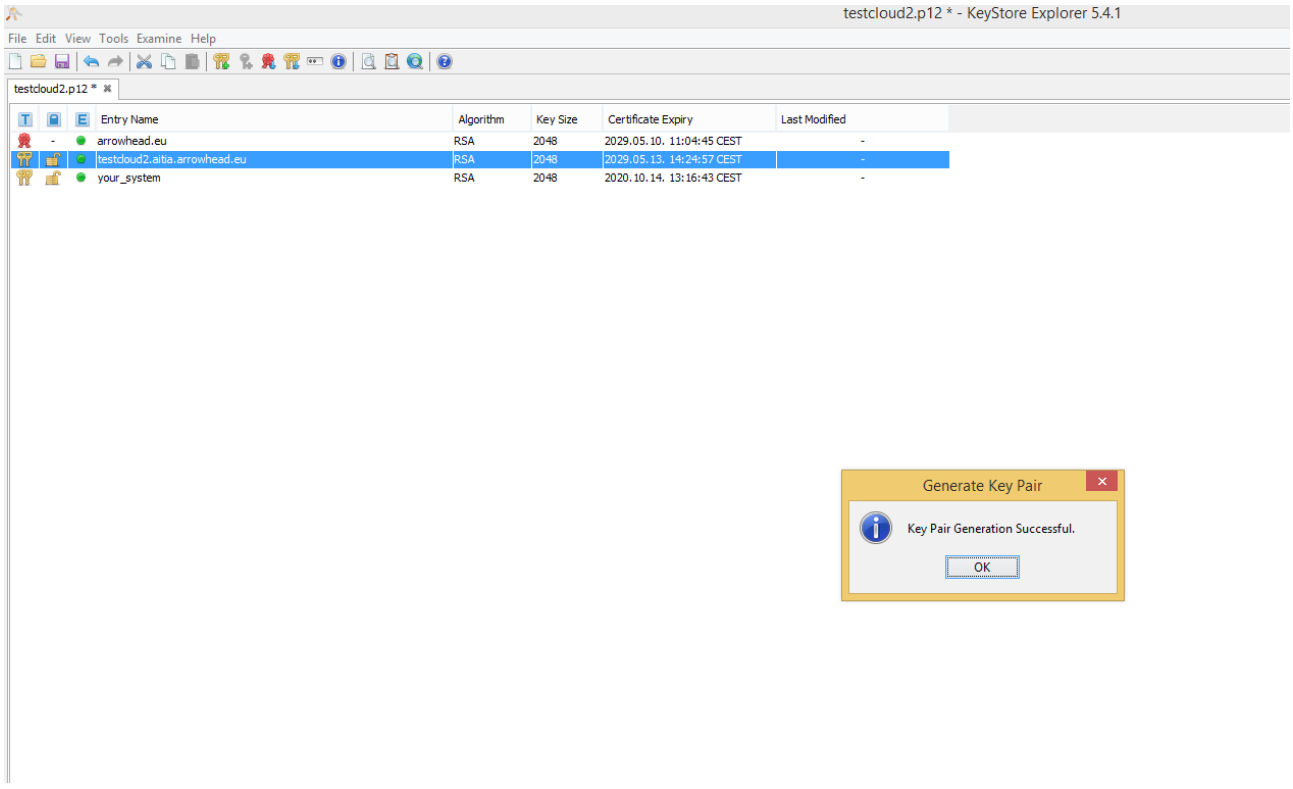
Edit alias of your new keypair – for example : your_system.
Click Ok.



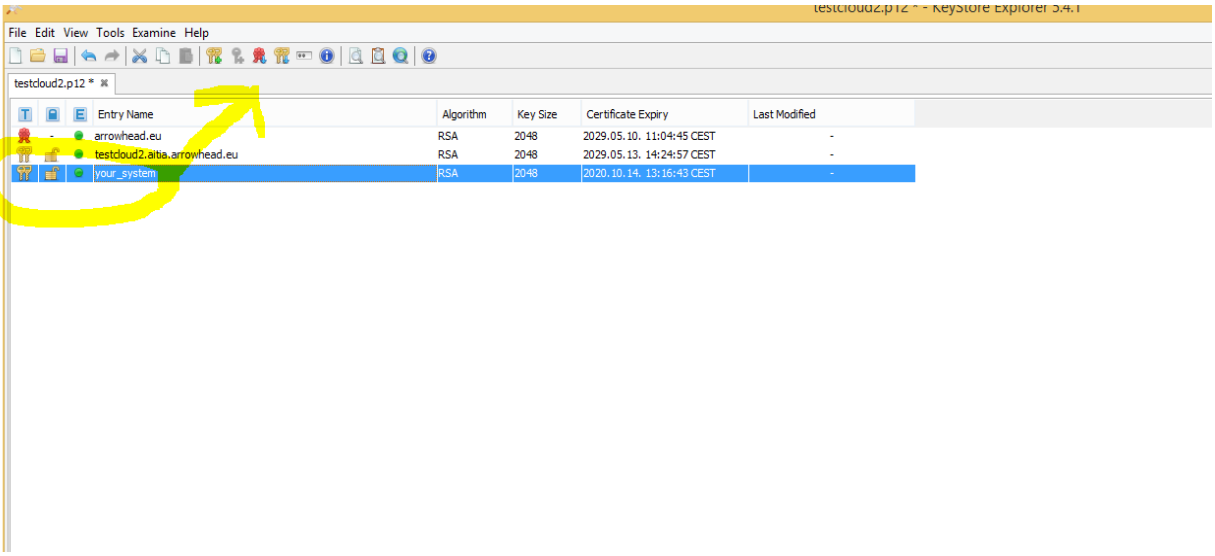
Enter Password for your new keyPair

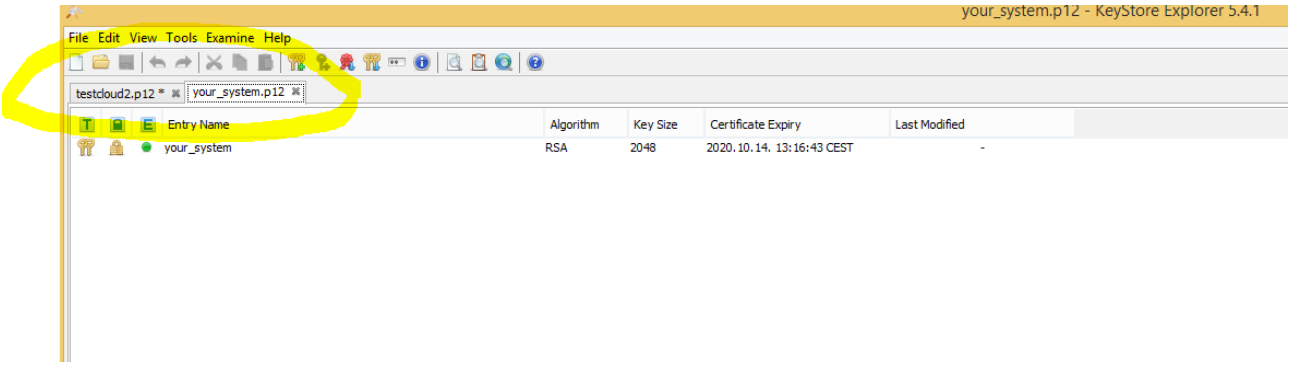


You should see a similar popup window:

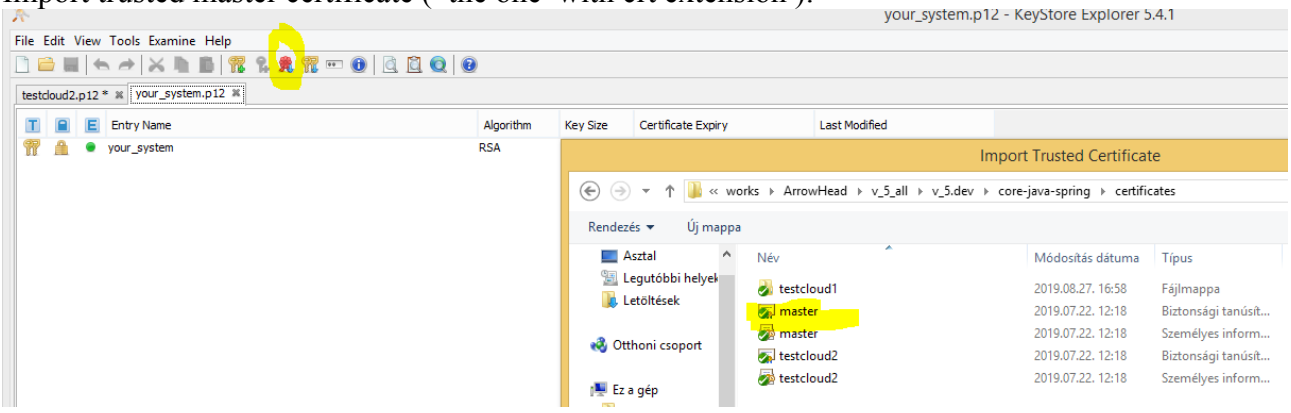


Click and dropp the newly generated keypair to a new tab.

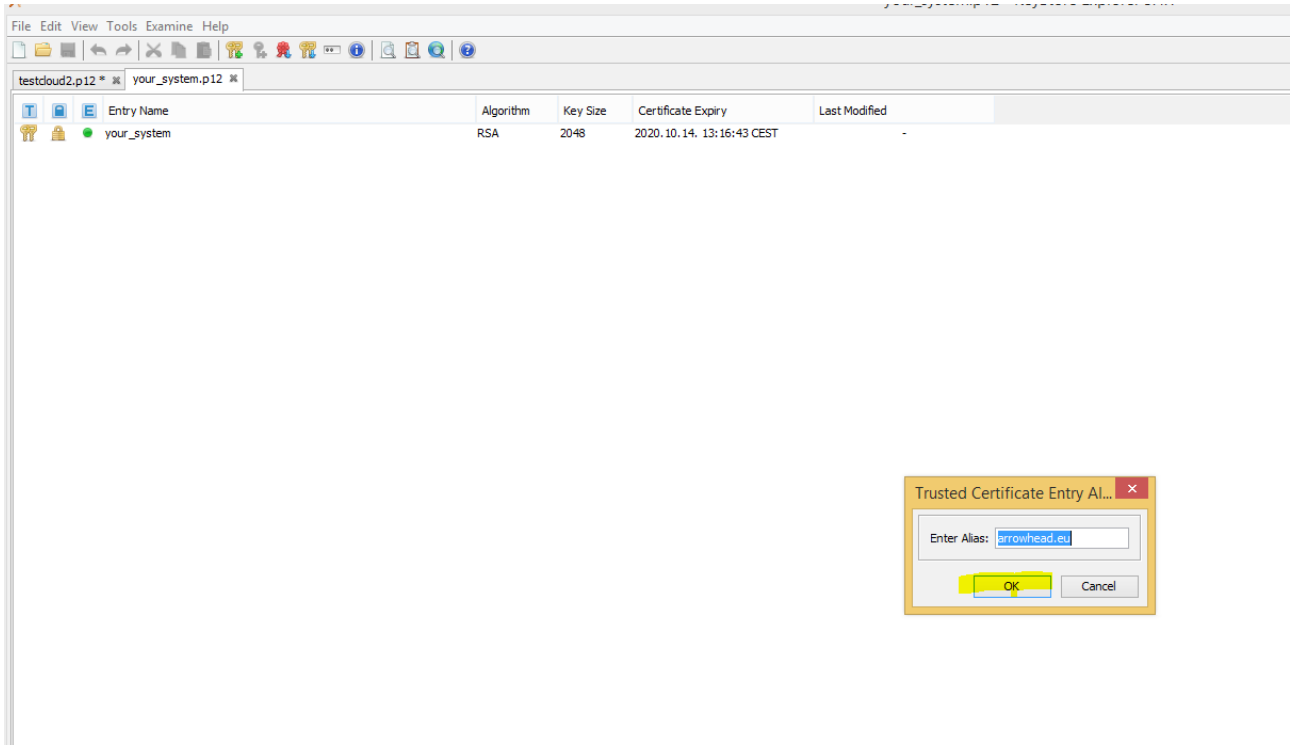




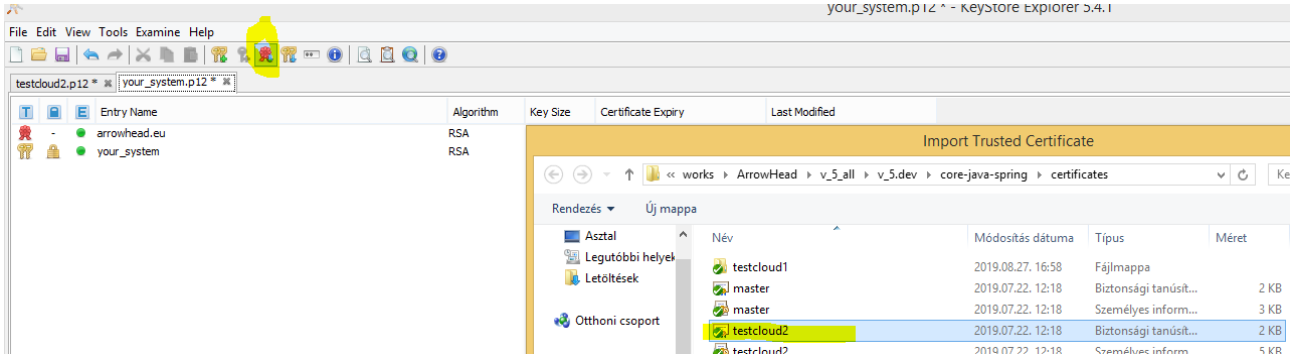
Import trusted master certificate (the one with crt extension):



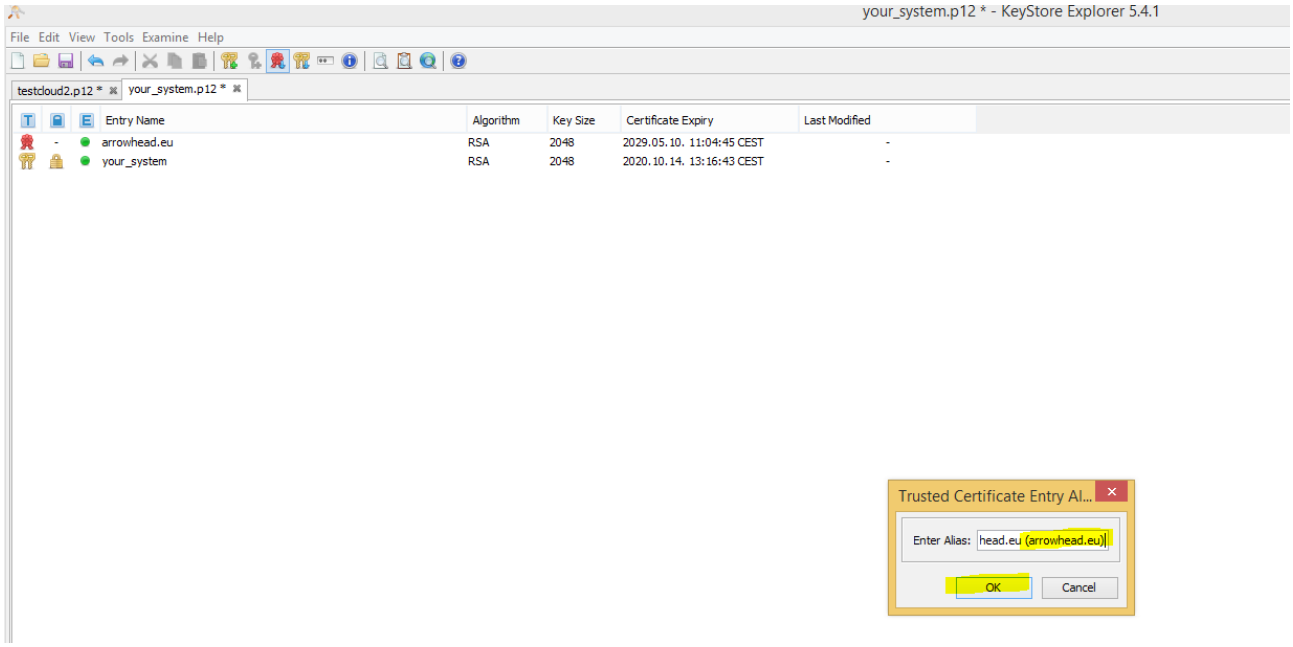
Edit imported master certificate alias – for example: arrowhead.eu
Click ok.



Import trusted cloud certificate (the one with crt extension):

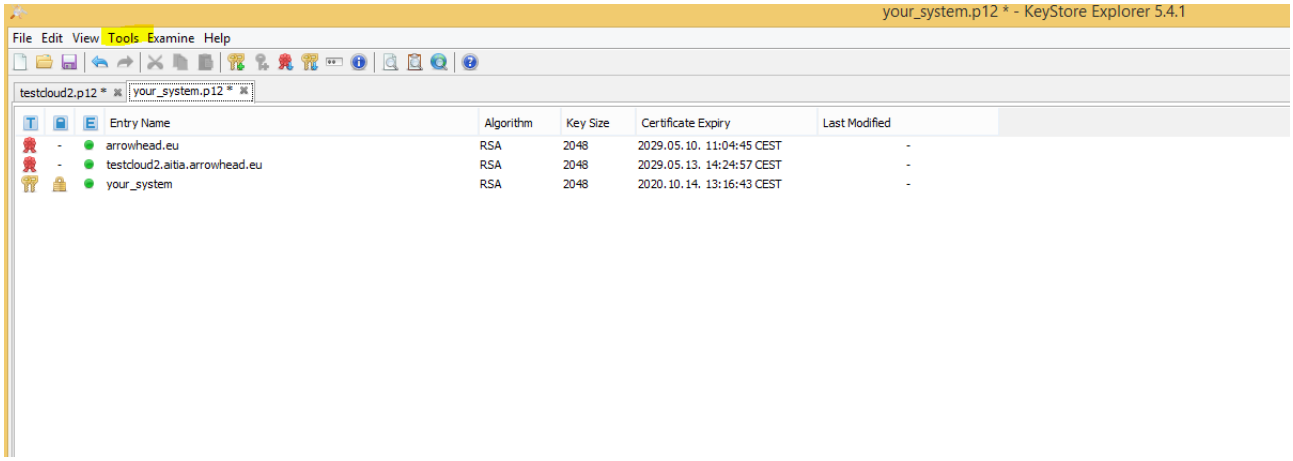


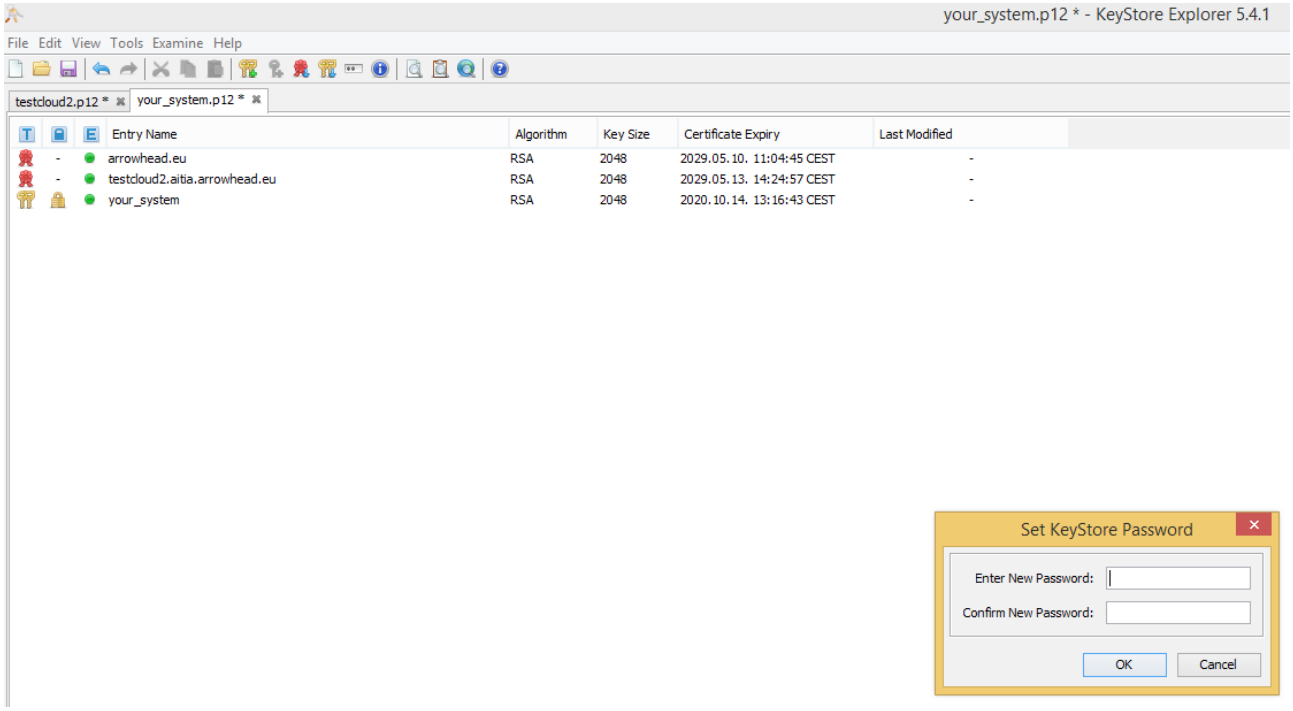
Edit trusted cloud certificate alias – for example : testcloud2.aitia.arrowhead.eu
Click Ok.



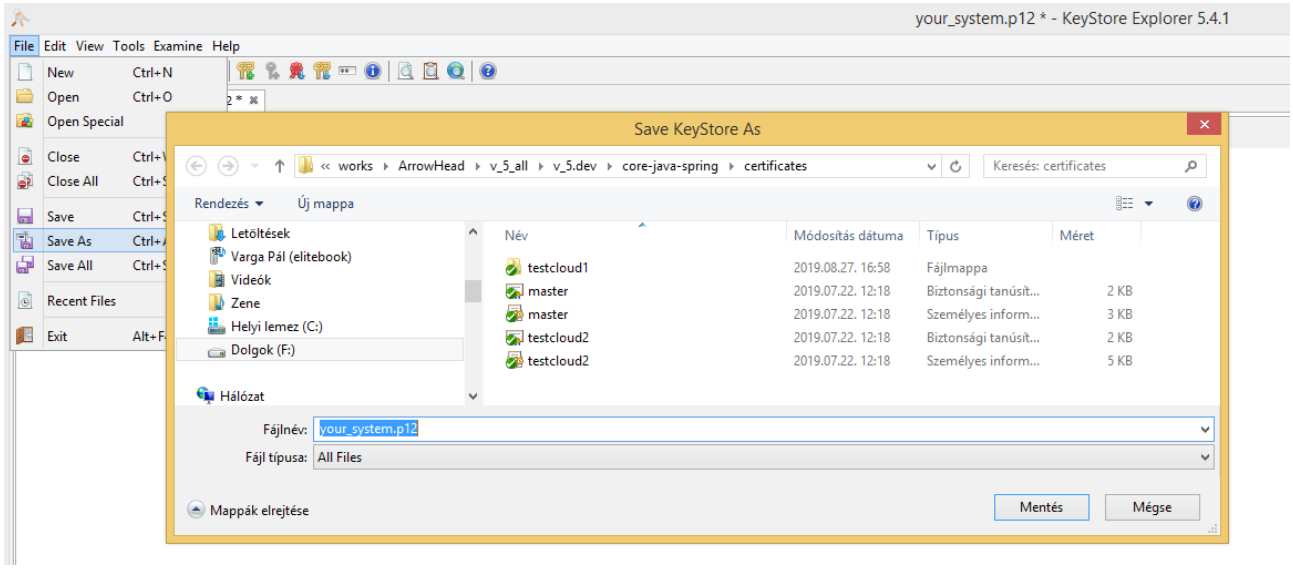
Set Keystore Password:

Click Tools.
Click Set Key Store Password.
Enter Password for KeyStore.
Click Ok.





Save As new keyPair as a p12 file – for example: you_system.p12



DO NOT SAVE THE CHANGES TO THE ORIGINAL CERTIFICATE!!!