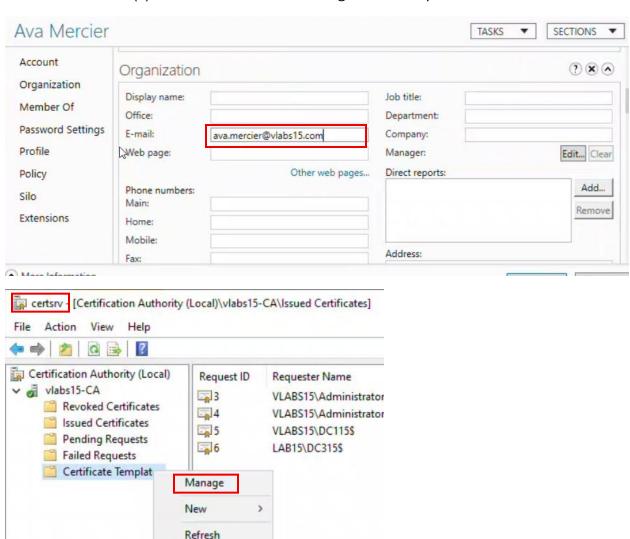
Lab - Managing a Certificate Authority Server in Active Directory

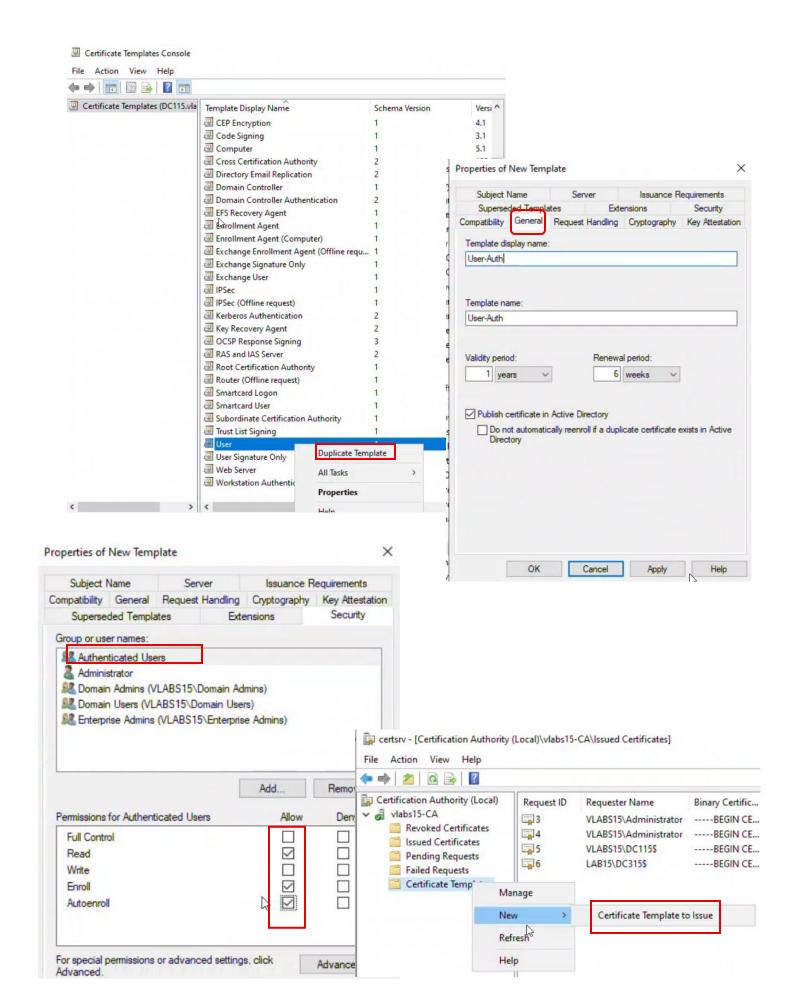
Task 1: Issue User Certificates in an AD Domain

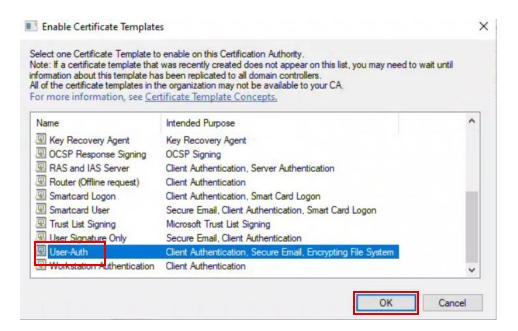
• Configure and publish User Certificates from Enterprise CA.

Help

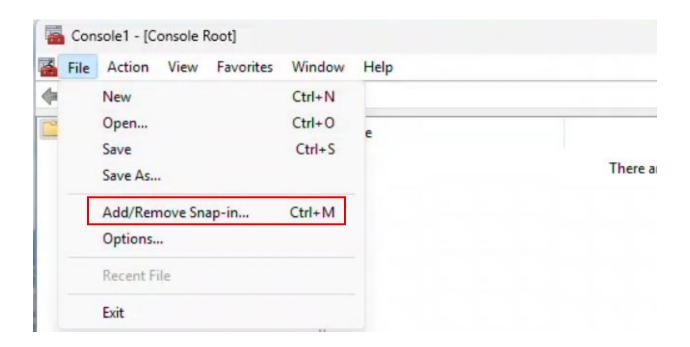
Make sure the user(s) have an email address assigned to their profile

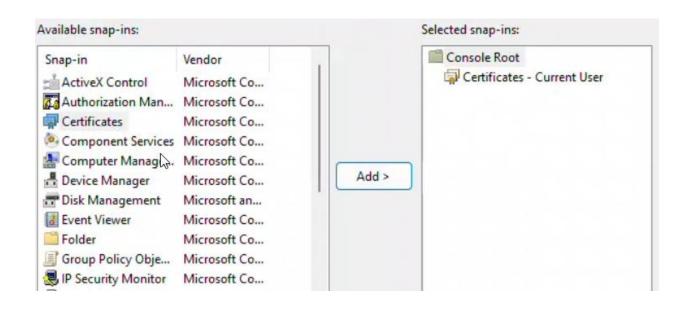


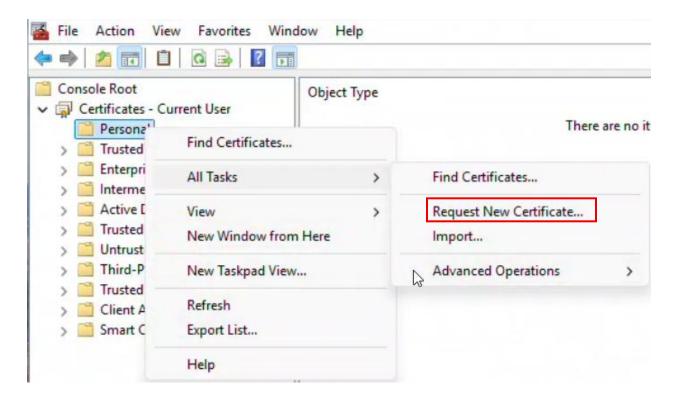




 Open a session on ClientXX with a user that has an email address and manually requests a user certificate.



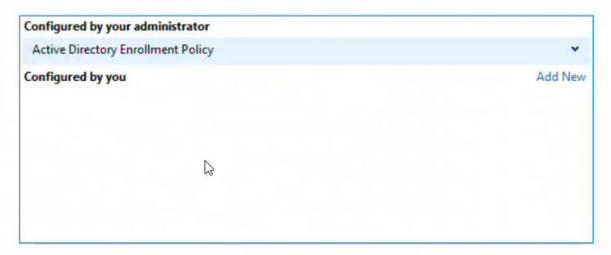


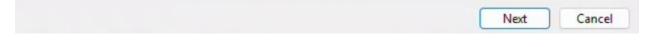




Select Certificate Enrollment Policy

Certificate enrollment policy enables enrollment for certificates based on predefined certificate templates. Certificate enrollment policy may already be configured for you.

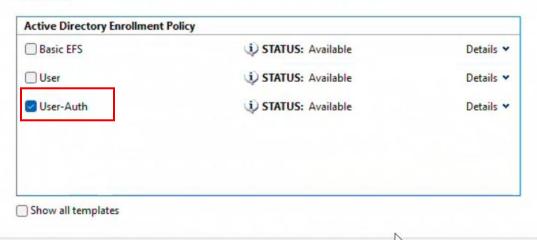




Request Certificates

Certificate Enrollment

You can request the following types of certificates. Select the certificates you want to request, and then click Enroll.



Enroll

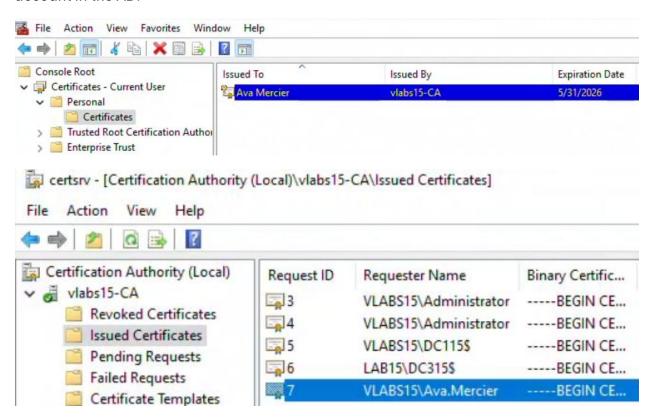
Cancel

Certificate Installation Results

The following certificates have been enrolled and installed on this computer.



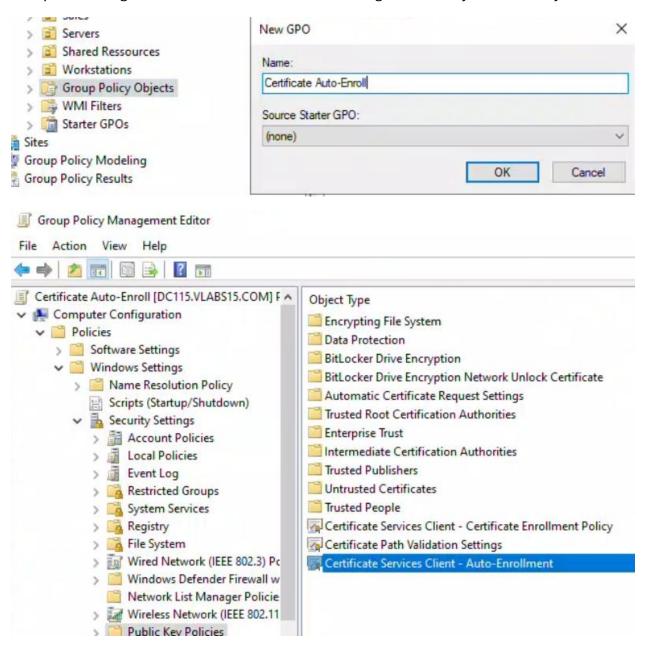
• Verify that the user has obtain a valid certificate on the Client and on his account in the AD.



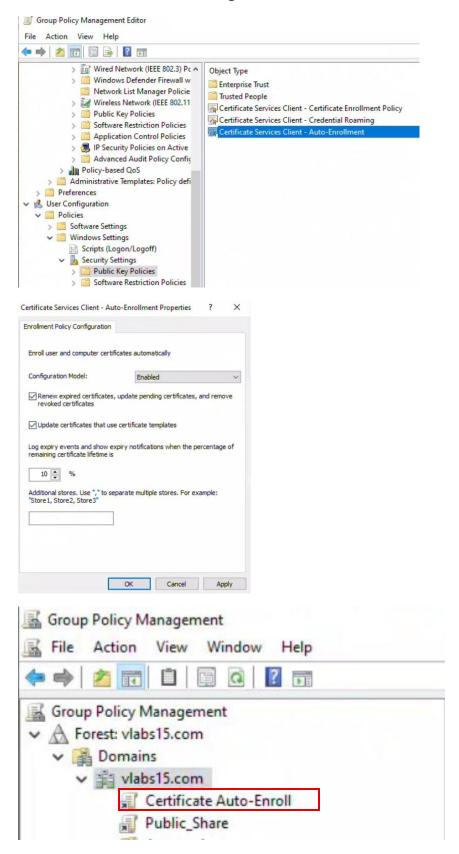
Task 2: Enable Automatic Certificate Enrollment in AD

 Configure Group Policy settings to allow automatic certificate enrollment.

Computer Configuration → Policies → Windows Settings → Security → Public Key Policies

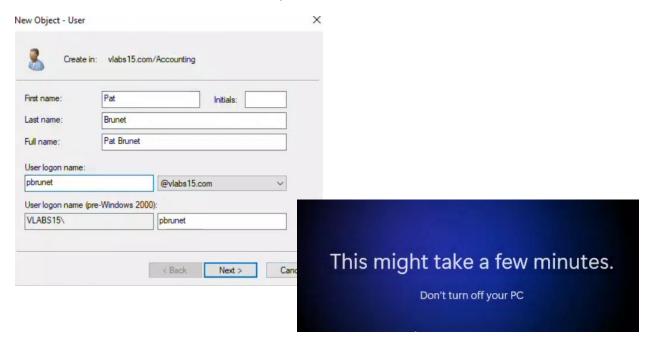


Now do the same in User Configuration



 Open a session on ClientXX using a different user from task 1, that has an email address. and verify if he has received automatically the necessary certificate.

Let's create a new user Pat Brunet and test with him on the client(make sure they have an email address associated with the user)

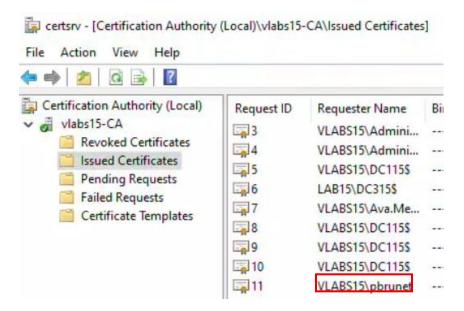


The certificate was automatically assigned.



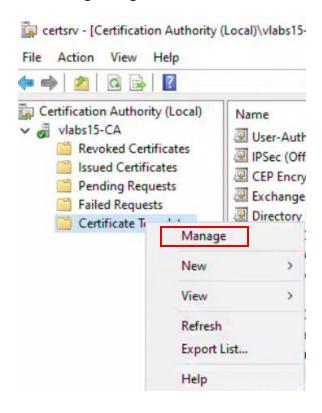
• Check the user account in the AD to verify that he has a valid certificate.

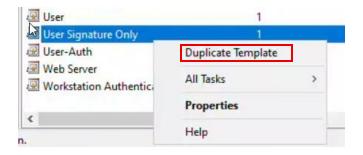
The certificate was automatically assigned.

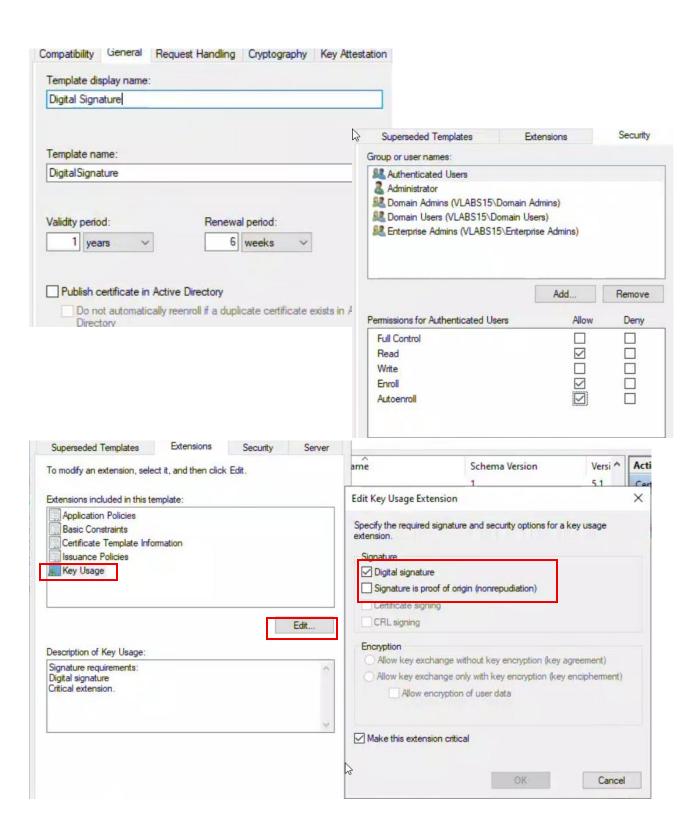


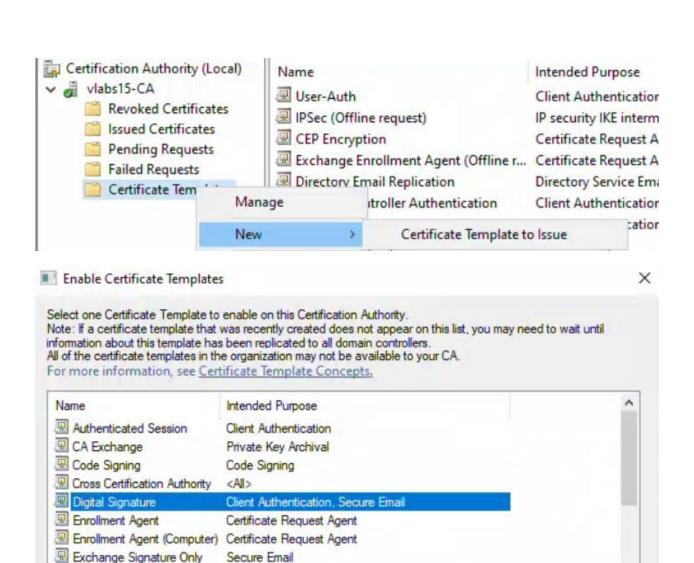
Task 3: Issue Digitally Signed Documents and Files

• Issue Digital Signature Certificates from Enterprise CA.









Secure Email

IP security IKE intermediate

B

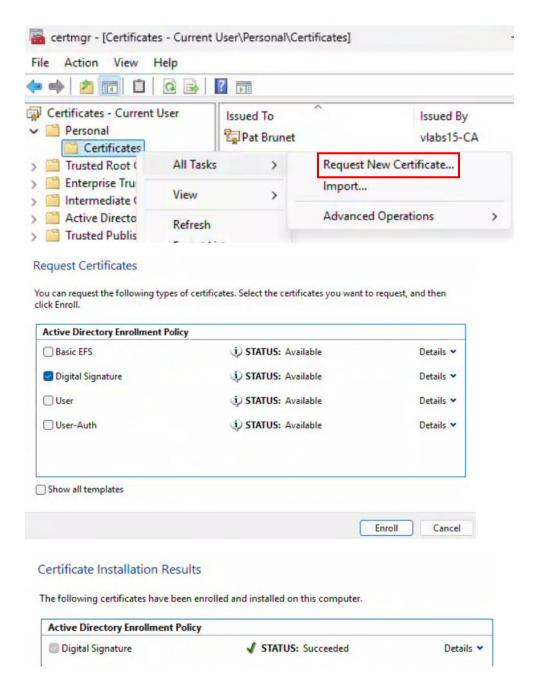
OK

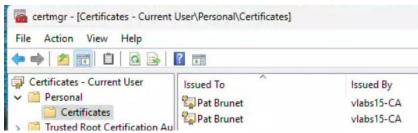
Cancel

Exchange User

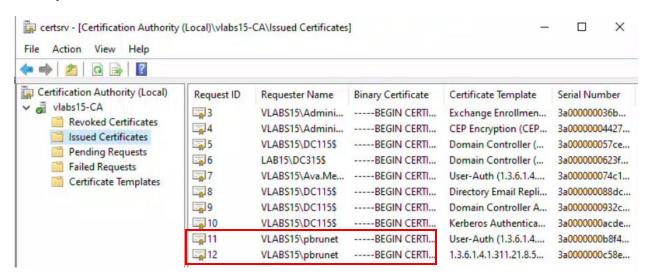
IPSec

 Open a session on ClientXX with a user and manually request a user certificate.



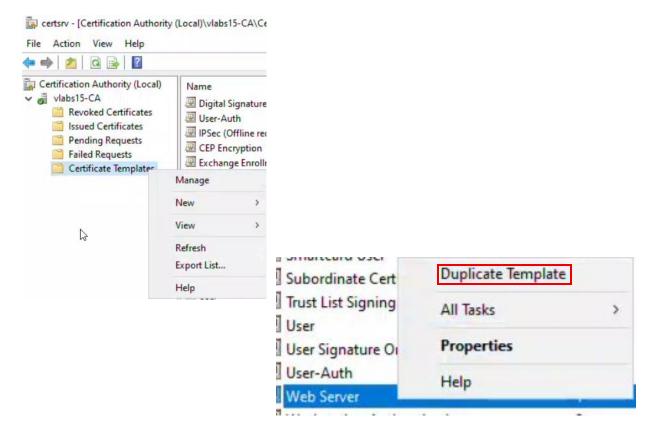


Verify that he has received this certificate.

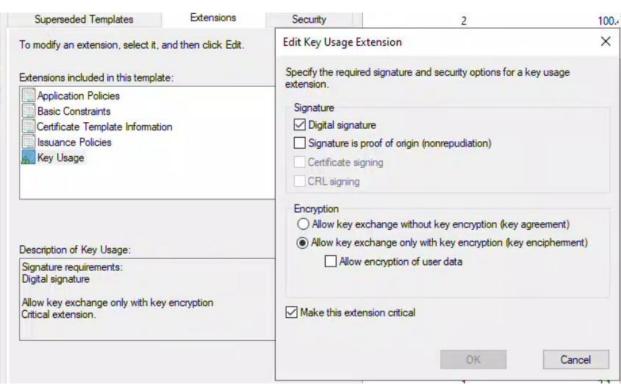


Task 4: Secure Internal Web Servers with SSL/TLS Certificates

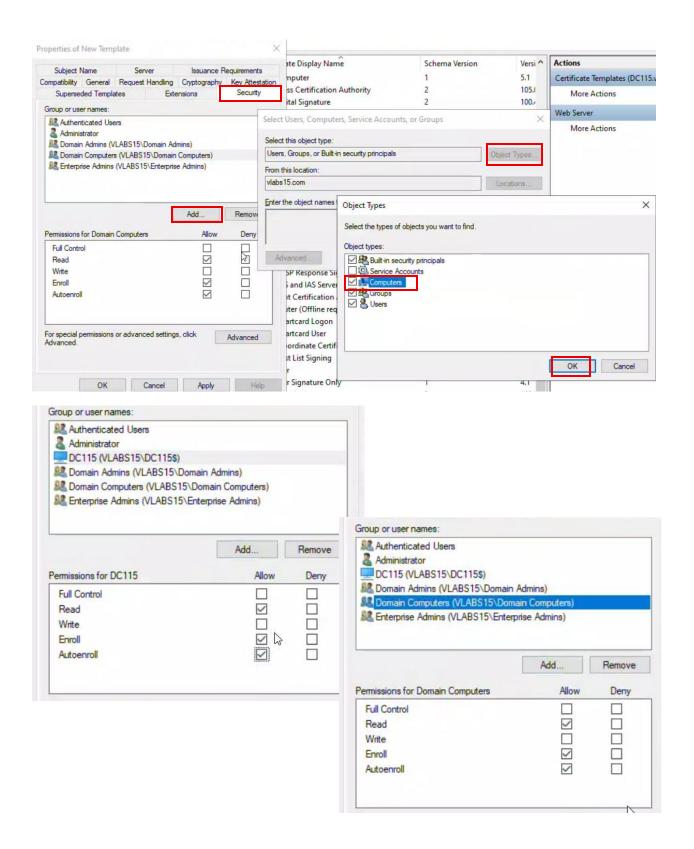
Create an SSL certificate on the Enterprise CA.

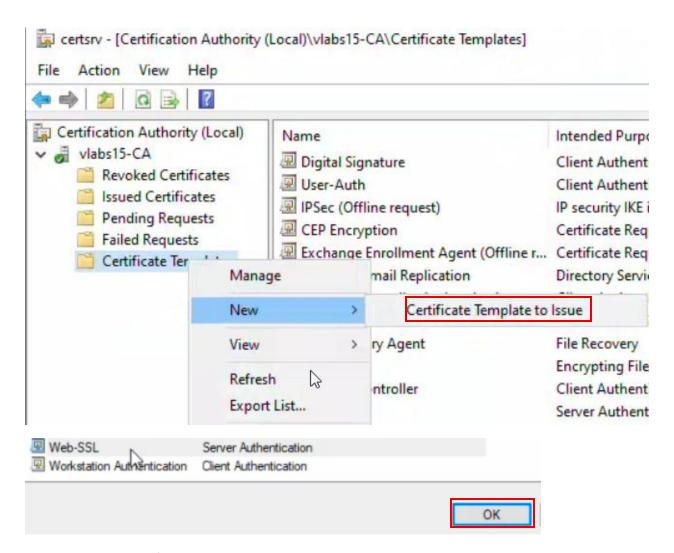




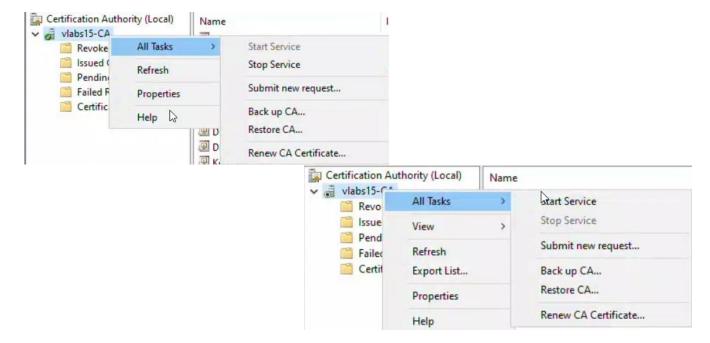






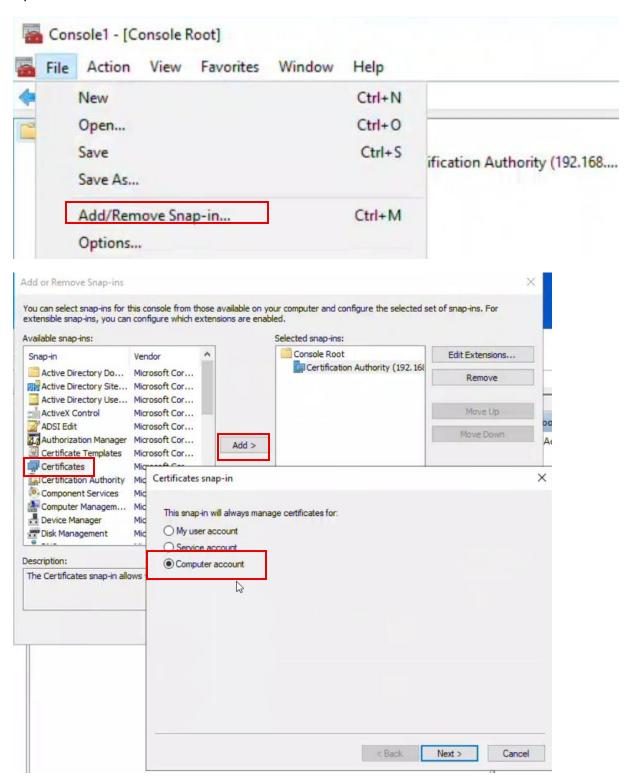


Restart the CA service (Stop / Start)



• Request and issue an SSL/TLS Certificate for dc1XX.vlabsXX.com.

Open mmc

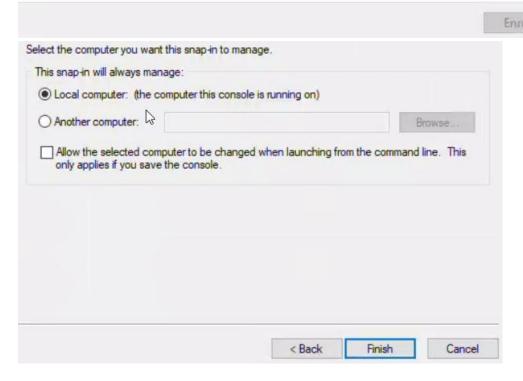


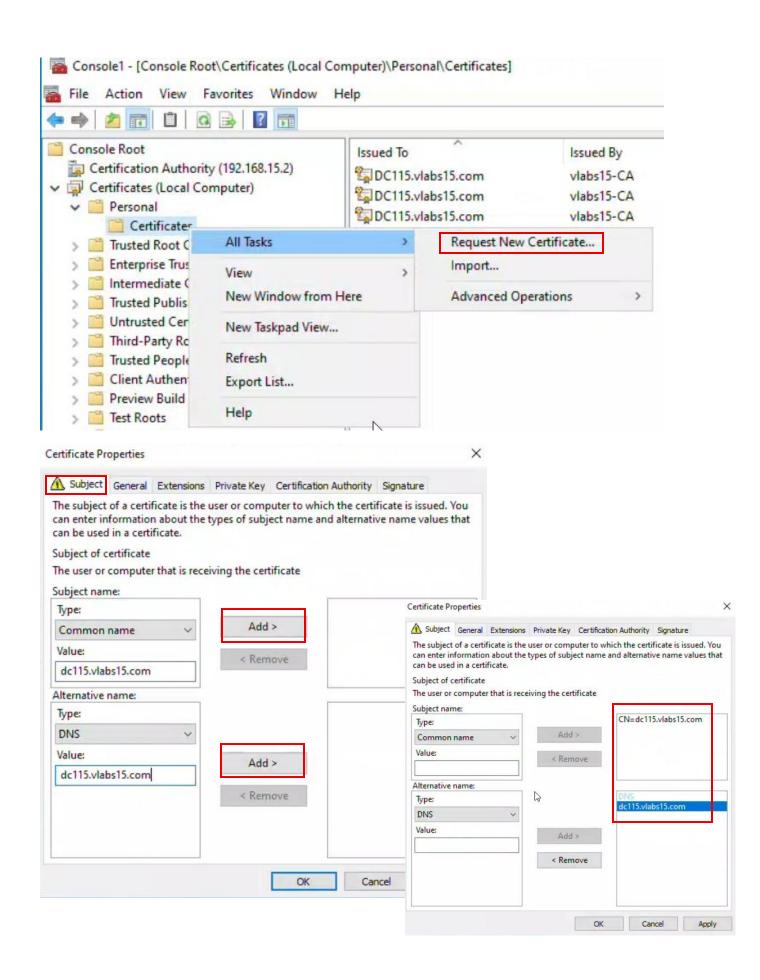
Request Certificates

You can request the following types of certificates. Select the certificates you want to request, and then click Enroll.

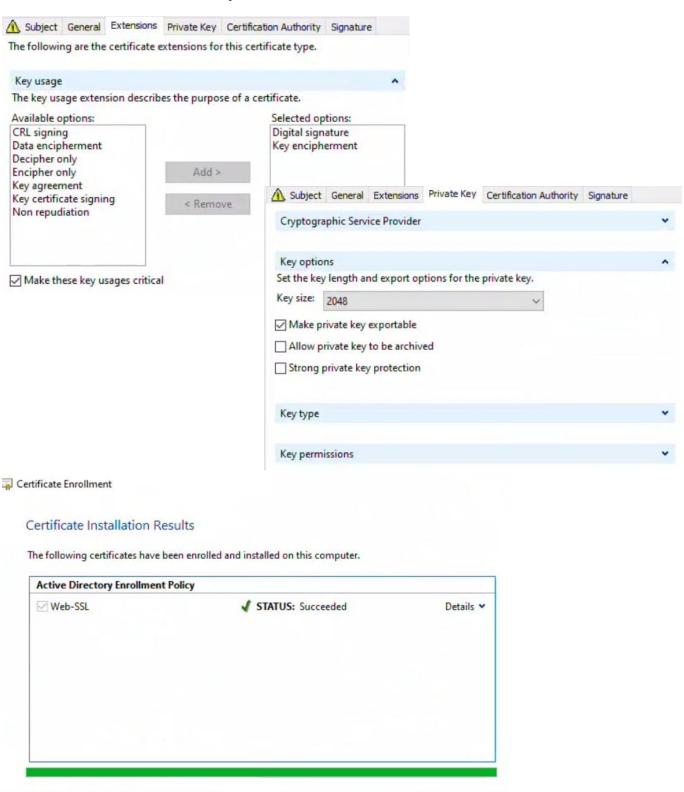


Cancel





Make sure these tabs are correctly filled, then OK and Enroll.

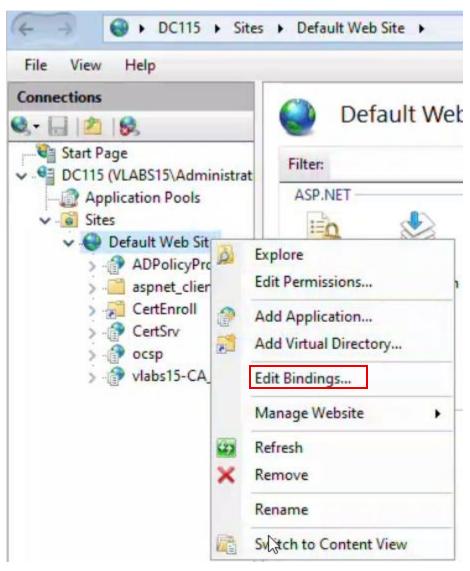


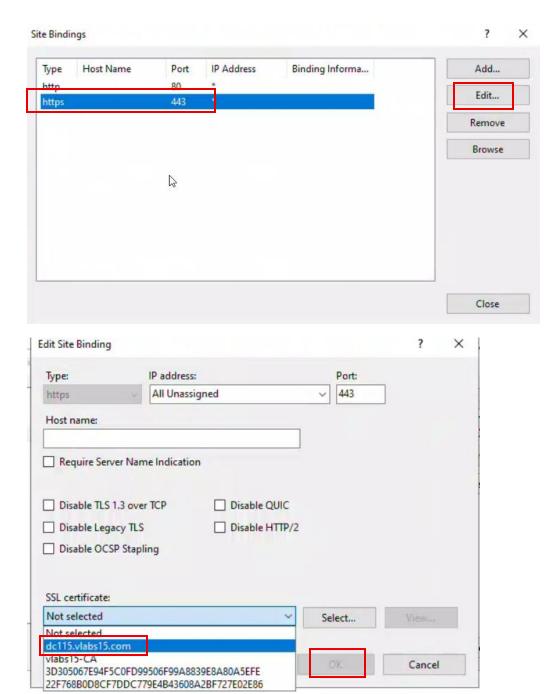
Finish

• Bind the certificate to the local web server (IIS).









Reset the service

iireset

```
PS C:\Users\Administrator> iisreset

Attempting stop...
Internet services successfully stopped
Attempting start...
Internet services successfully restarted
PS C:\Users\Administrator>
```

• Test and verify HTTPS access to dc1XX.vlabsXX.com.

