

2022 LG Security Studio Project

Developers Guide

Team 2

Author Woosuk Ahn

Heewon Ahn

Woosuk Jeong

Hyunmin Kim

Jungsun Ko

Hunjin Ha

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Revision History

Version	Description of Changes	Author
0.1	Initial documentation template	Woosuk Ahn
1.0	Update setup guide for authentication	Heewon Ahn

Deployment Guide

1. Requirement

Python 3.10+ (Tested against 3.10)

2. Make Python Environment & Update Package

```
$ python -m venv team2
$ cd team2/Script
$ activate

$ cd OpenAlpr\studio
$ pip install -r .\requirement.txt
```

3. Install openAlpr for Python

```
$ cd .\openalpr64-sdk-4.1.1\python\
$ python .\setup.py install
```

4. Migration DB

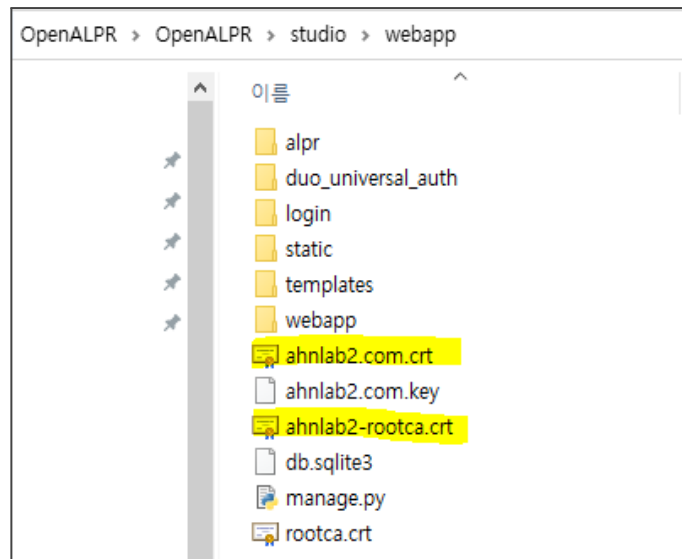
```
$ cd studio\webapp
$ python .\manage.py makemigrations
(select option 1 and input any text after that.)

$ python .\manage.py migrate
```

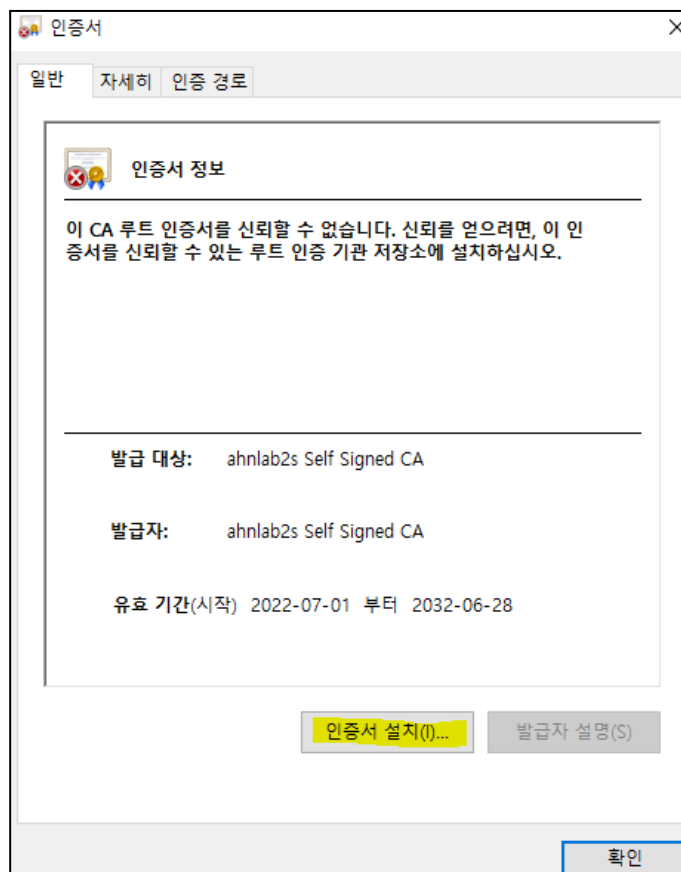
4. Import Certificates

Root CA

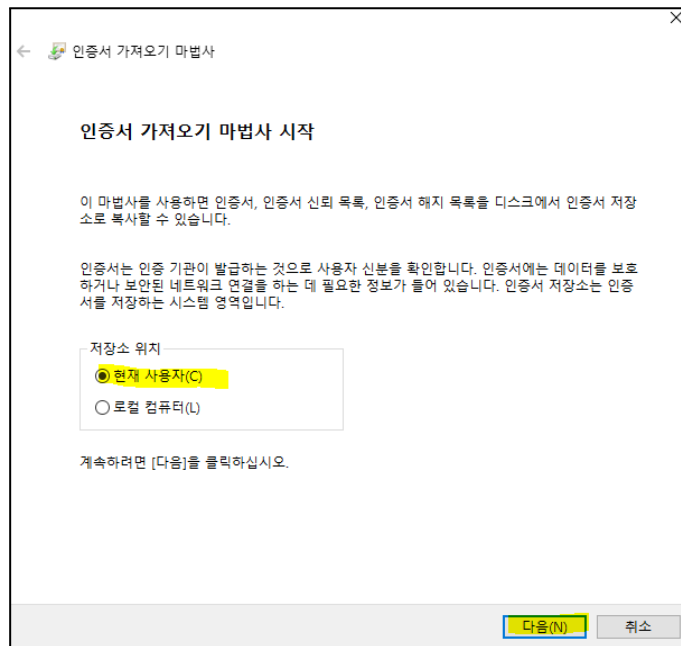
1. Go to Path the crt file located (Path: /client/studio/webapp)
2. Double click the "ahnlab2-rootca.crt" file.



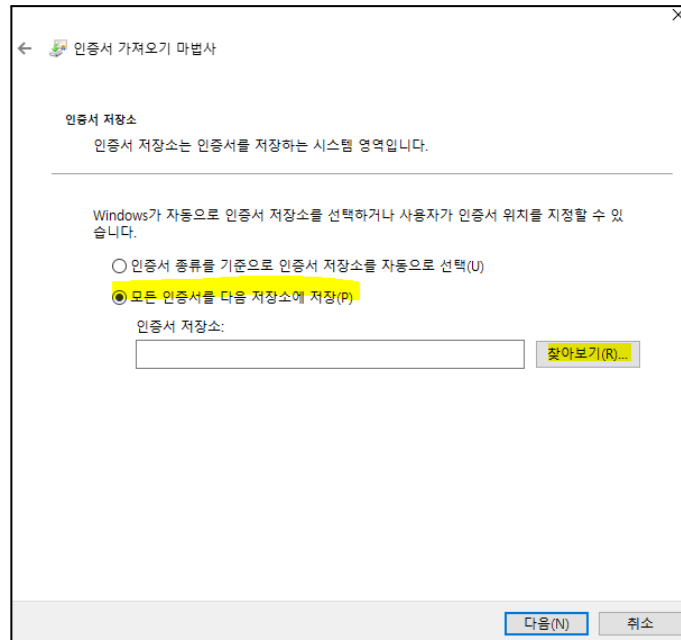
3. Click the "Install Certificate(I)..."

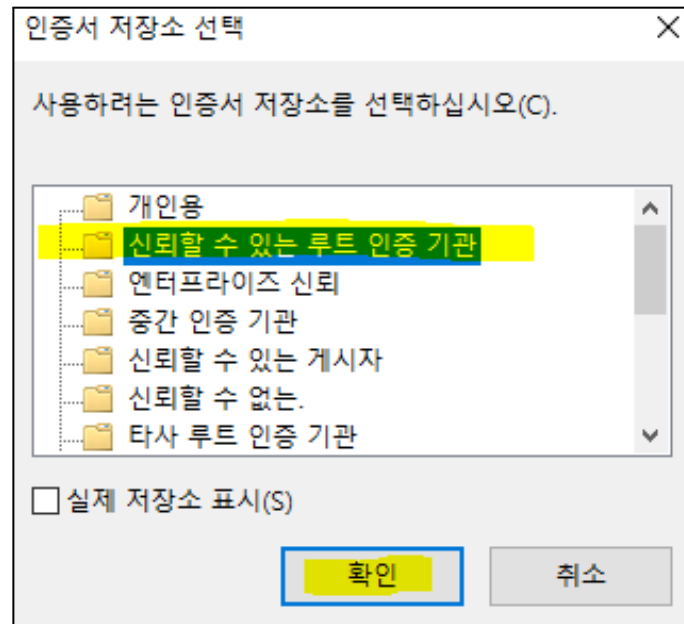
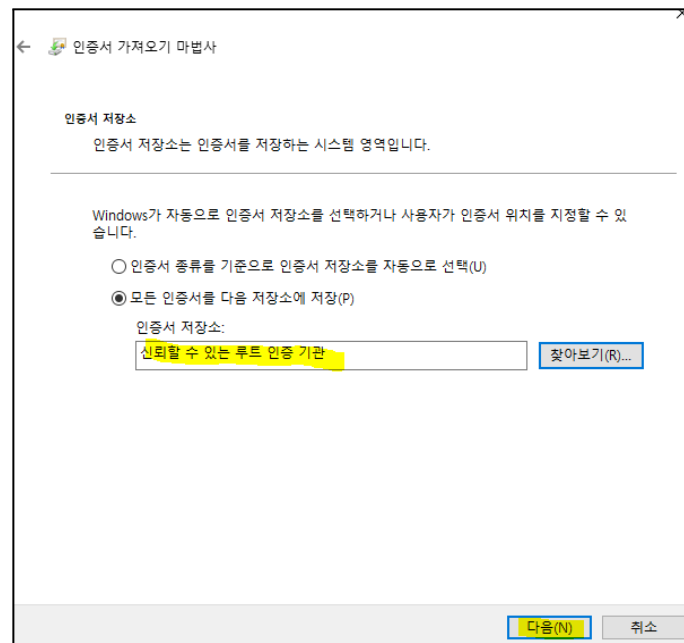


4. Select “Current User” and “Next”

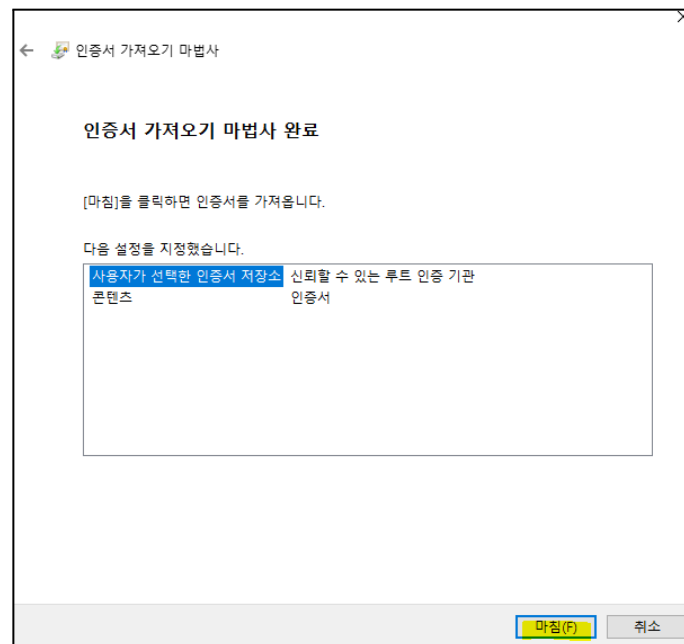


5. Check “Save All Certificate to Storage” and select “Find”

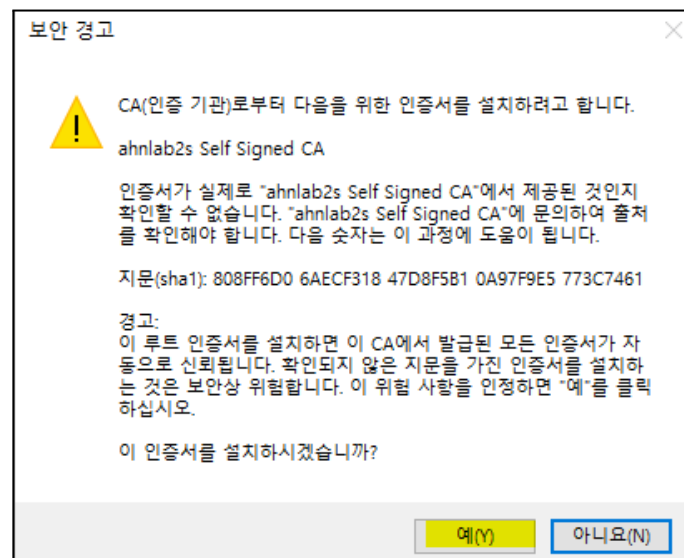


6. Select “Trusted RootCA” and “OK”.**7. Select “Next”**

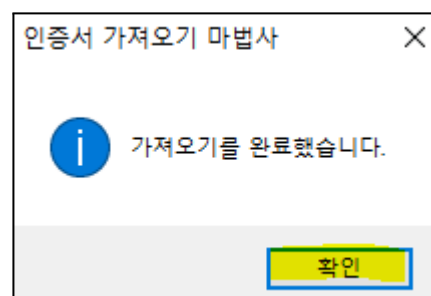
8. Select “Finish”



9. Click “Ok” even if there is a security warning.

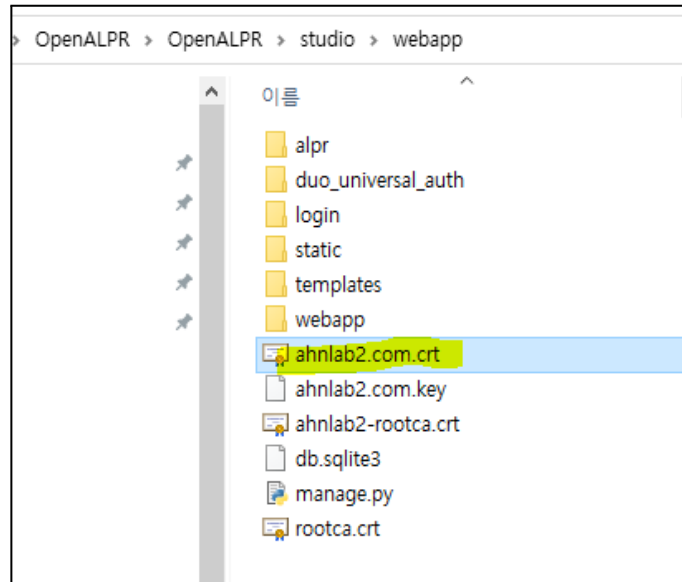


10. Finish, you can see the “Complete Popup”

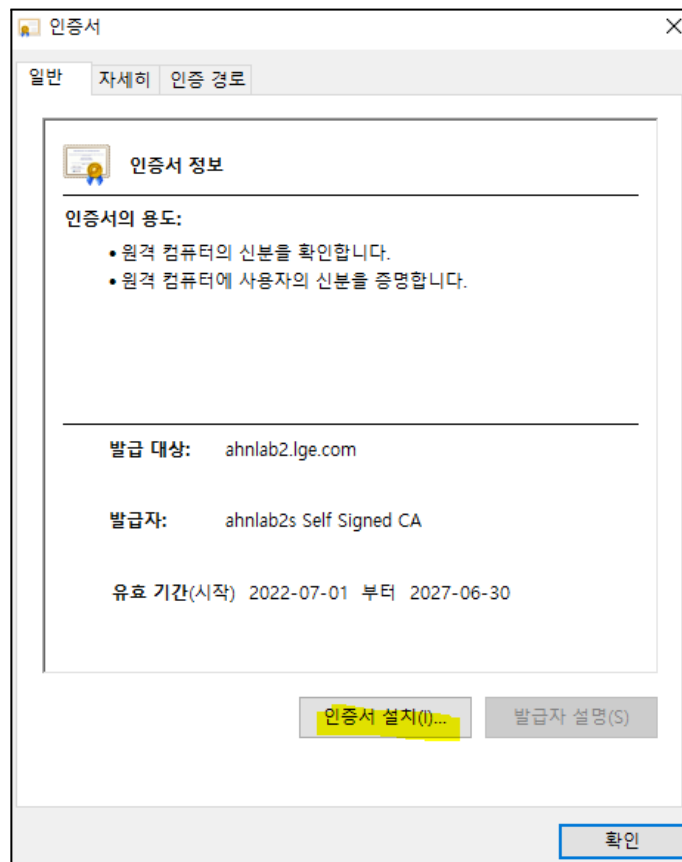


Certificate

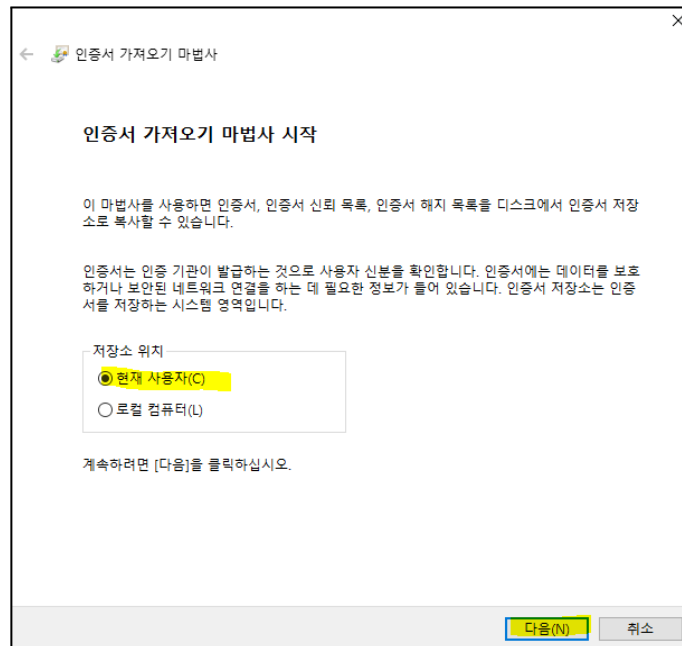
1. Go to Path the crt file located (Path: /client/studio/webapp)
2. Double click the “ahnlab2.com.crt” file.



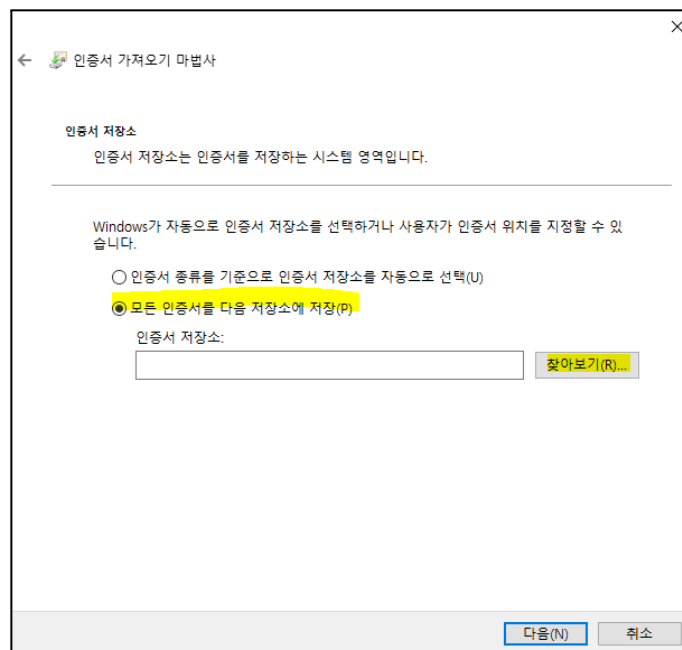
3. Click the “Install Certificate(I)...”

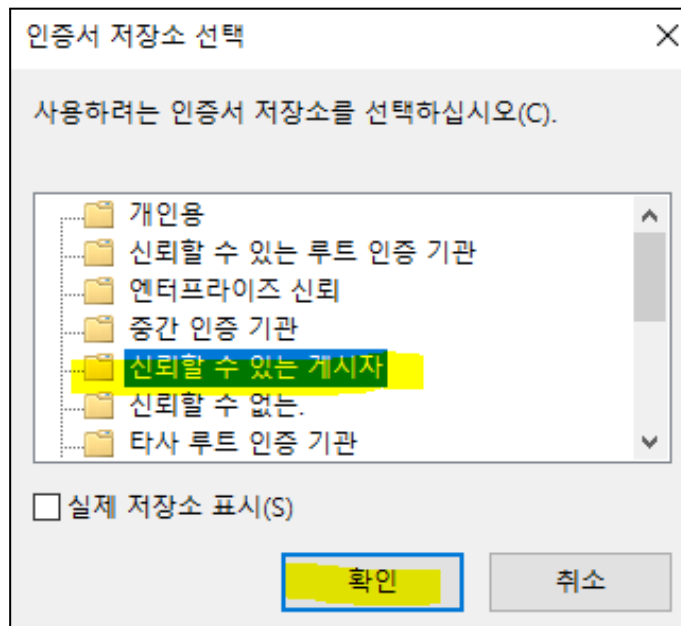
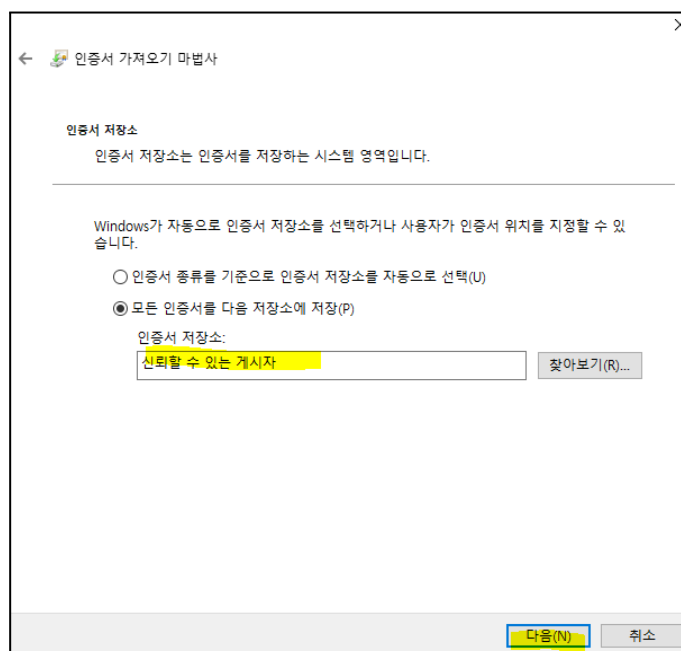


4. Select “Current User” and “Next”

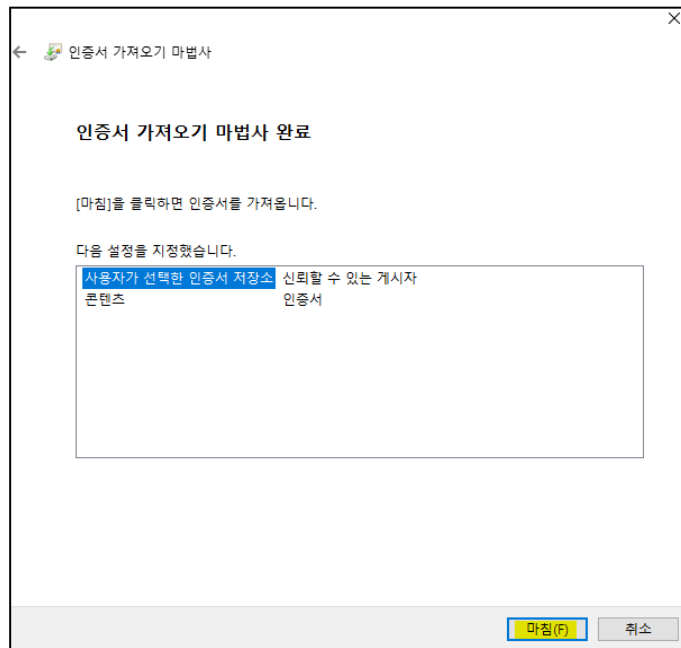


5. Check “Save All Certificate to Storage” and select “Find...”

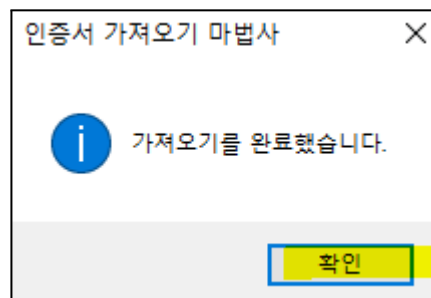


6. Select “Trusted Publisher” and “OK”**7. Select “Next”**

8. Select “Finish”



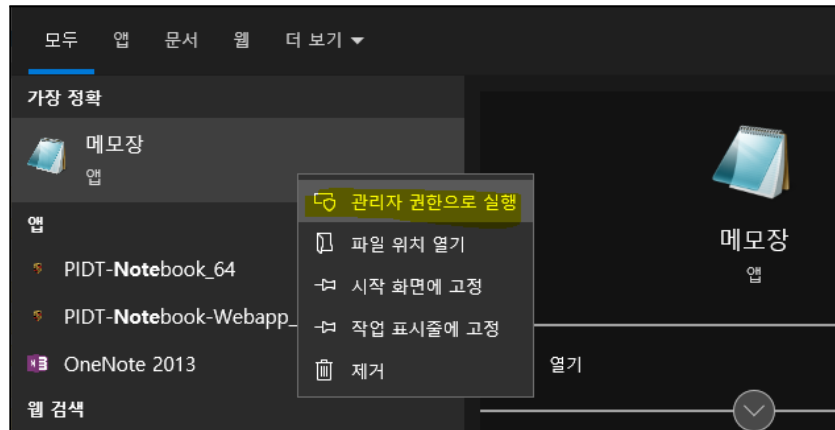
9. Finish, you can see the “Complete Popup”



5. Modify “hosts” File (Windows OS)

In order to enable the https, your should change Windows hosts file.(replace to DNS)

1. Run Notepad as an **Administrator**.



2. Open **C:\Windows\System32\drivers\etc\hosts** file in the notepad.

3. Add **“IPADDRESS of ALPR system”** and **“ahnlab2.lge.com”** in the hosts file.

(Note: Please put **your own IP address** into the host file.)

```

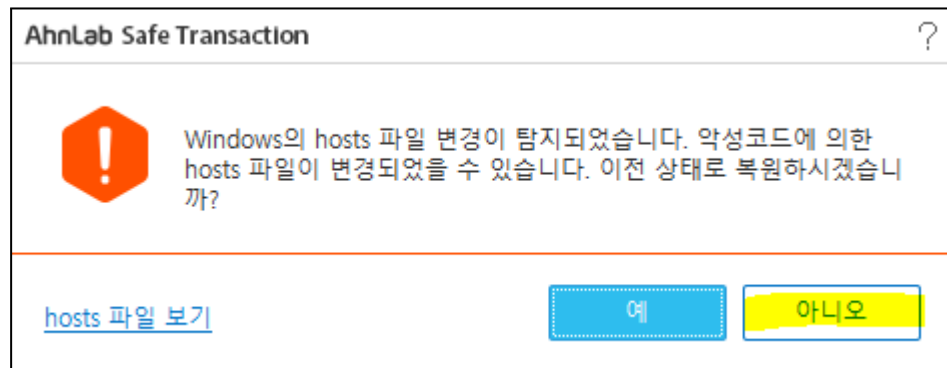
hosts - Windows 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#      102.54.94.97   rhino.acme.com   # source server
#      38.25.63.10   x.acme.com      # x client host

# localhost name resolution is handled within DNS itself.
#      127.0.0.1     localhost
# 10.158.15.59      LGV/QE
127.0.0.1          localhost
10.58.7.138        ahnlab2.lge.com
#                  ::1             localhost

```

4. SAVE

If you see the warning popup, click “No”.



6. Run “Lookup Server” and “Web Server”

Lookup Server

```
$ cd plateServer
$ setup.bat
$ cd x64/Release
$ loaddb.exe
$ server.exe
Listening
Listening configure Port
```

Web Server

```
$ python .\manage.py runsslserver 0.0.0.0:8000 --certificate
ahnlab2.com.crt --key ahlalab2.com.key

Watching for file changes with StatReloader
Validating models...

D:\cmu\project\OpenALPR\studio\webapp\alpr\../../openalpr64-sdk-4.1.1
System check identified some issues:

WARNINGS:
?: (urls.W005) URL namespace 'login' isn't unique. You may not be able to
reverse all URLs in this namespace

System check identified 1 issue (0 silenced).
July 05, 2022 - 13:24:40
Django version 4.0.5, using settings 'webapp.settings'
Starting development server at https://0.0.0.0:8000/
Using SSL certificate: ahlalab2.com.crt
Using SSL key: ahlalab2.com.key
Quit the server with CTRL-BREAK.
```


7. Access Web Browser

<https://ahnlab2.lge.com:8000/alpr/>