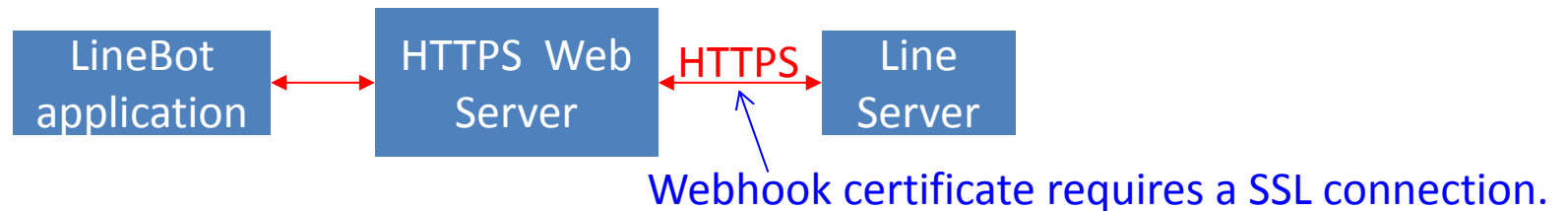


Create Your LineBot

Dr. Yun-Wei Lin

LineBot Application Network Architecture

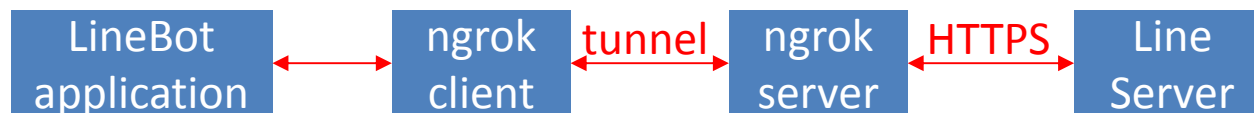
Normally, the network architecture of the LineBot application is



To activate a web server with HTTPS service, several things are required:

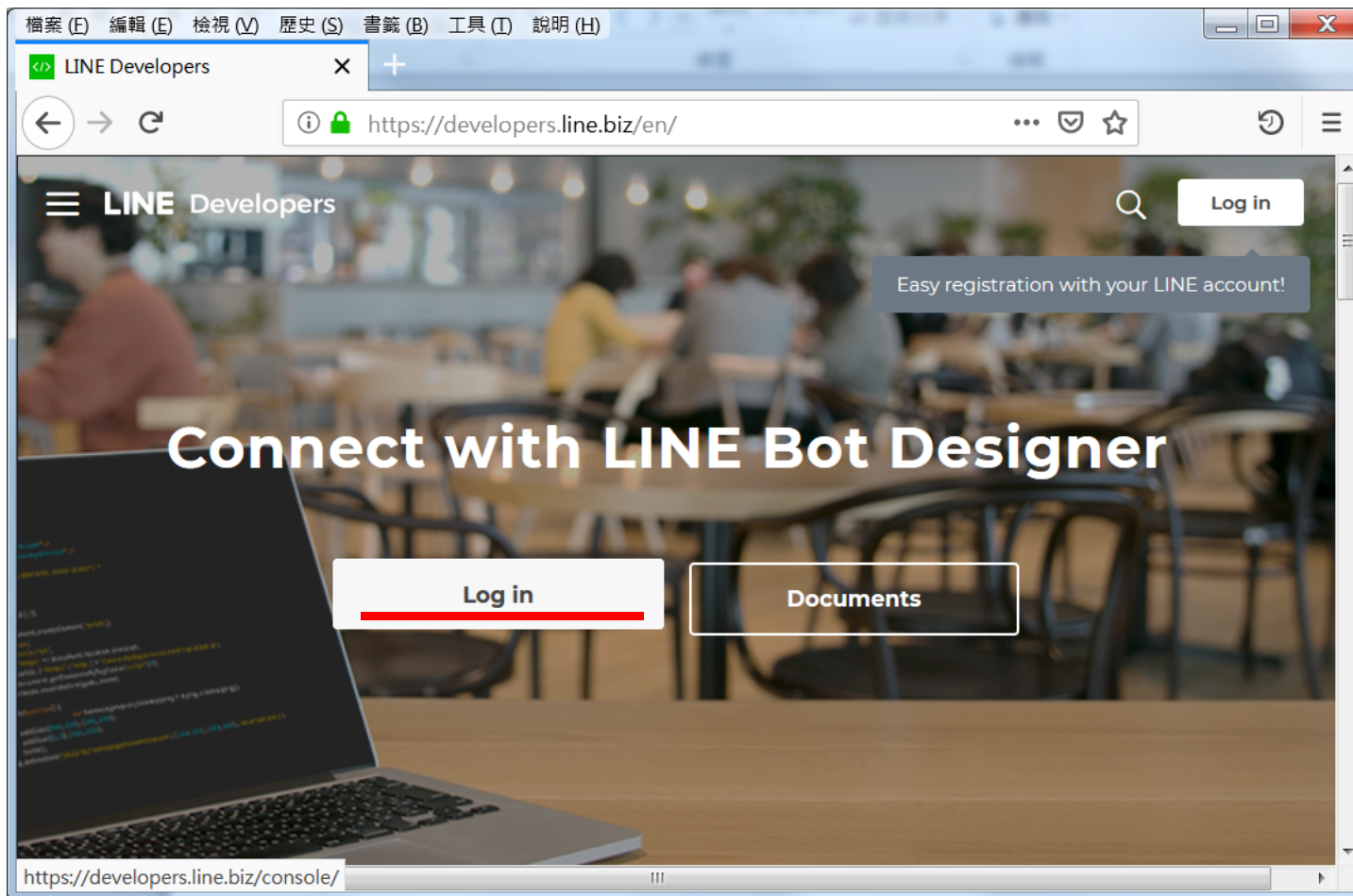
1. a server
2. a domain name
3. SSL certificate

To simplify the process in the class, we use **ngrok** instead of a https web server.



Apply a LINE developer account










If you don't have the Line developer account, create one.


≡ LINE Developers






LINE Developers


Confirm that the following information is correct and select Register.
Developer information can be modified after registration.

Name 

Max: 200 characters

Email address 

Max: 100 characters

☐ [LINE Developers Agreement](#):  I have read and agree to the LINE Developers Agreement.

Confirm



Developer Name

Confirm that the following information is correct and select Register.

Developer information can be modified after registration.

Name ?

Email address ?

☒ [LINE Developers Agreement](#): [🔗](#) I have read and agree to the LINE Developers Agreement.

Edit

Register



Welcome



Providers



Provider List



Tools

Provider List (1)

+ Create New Provider

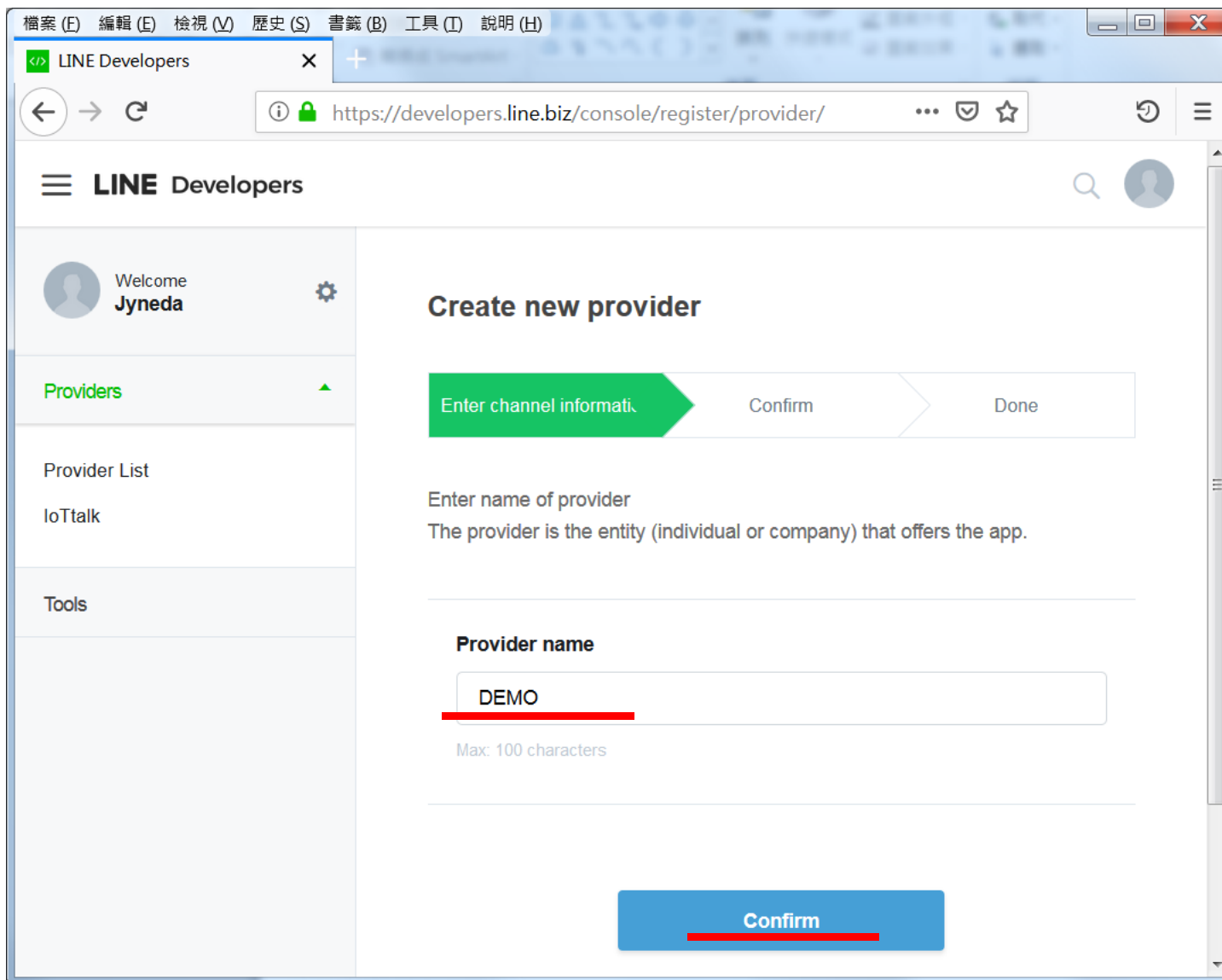
Provider

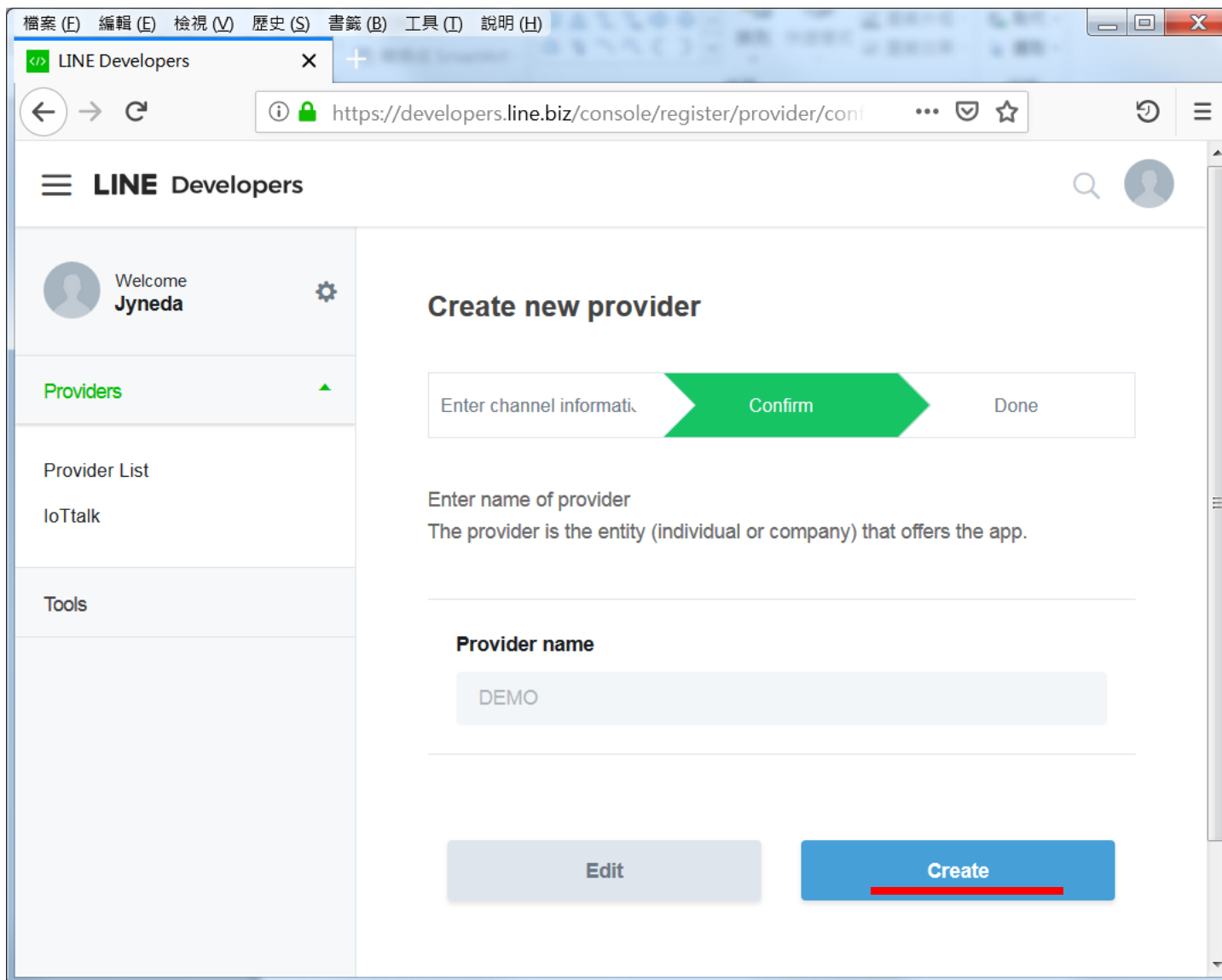
Role



Admin

+ Create New Provider





A provider has been created!
Next, let's create a new channel

Please select a channel from the following and create a new channel.



LINE Login

Create Channel



Messaging API

Create Channel



Clova Skill

Create Channel

App name

DEMO

Max: 20 characters

Note: The app name cannot be changed for seven days.

App description

DEMO

Max: 500 characters

Plan



Developer Trial

A trial plan which lets you create a bot that can send push messages and have up to 50 friends.

Note: You cannot upgrade or buy a premium ID for a Developer Trial plan.



Free

A plan which lets you create a bot with an unlimited number of friends. Push messages cannot be sent with this plan.

Note: You can upgrade this plan at any time.

Category

學校



Subcategory

研究所、大學



Email address

DEMO@DEMO.com|



DEMO

Plan

Developer Trial

Category

學校

Subcategory

研究所、大學

Email address

DEMO@DEMO.com

[LINE@ Terms of Use](#) [↗](#) I have read and agree to the Terms of Use.[Messaging API \(Developer Trial plan\) Terms of Use:](#) [↗](#) I have read and agree to the Terms of Use.

Edit

Create



LINE Developers



Welcome



Providers



Provider List

DEMO



Tools



DEMO



Sort by date



Create new channel

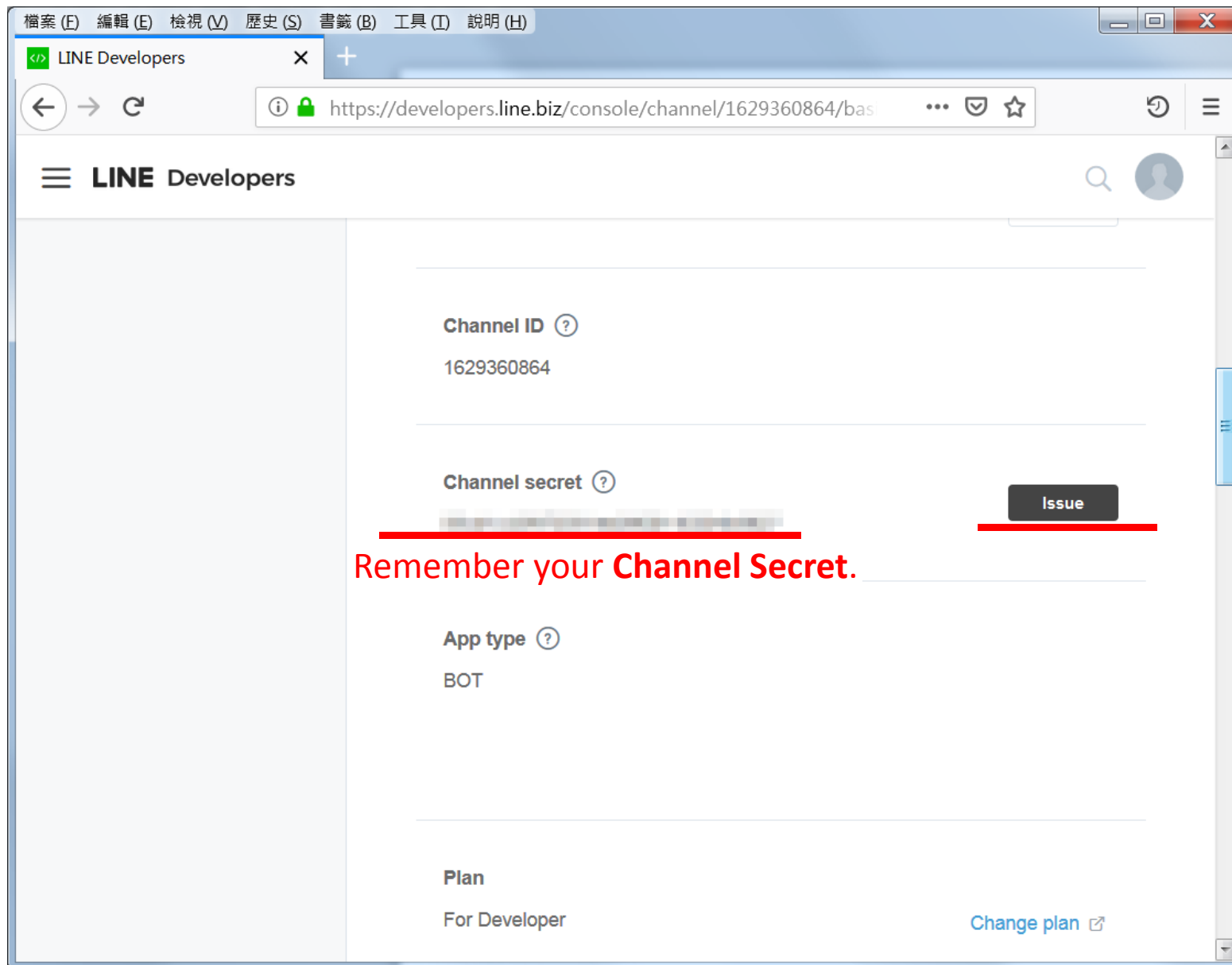
New

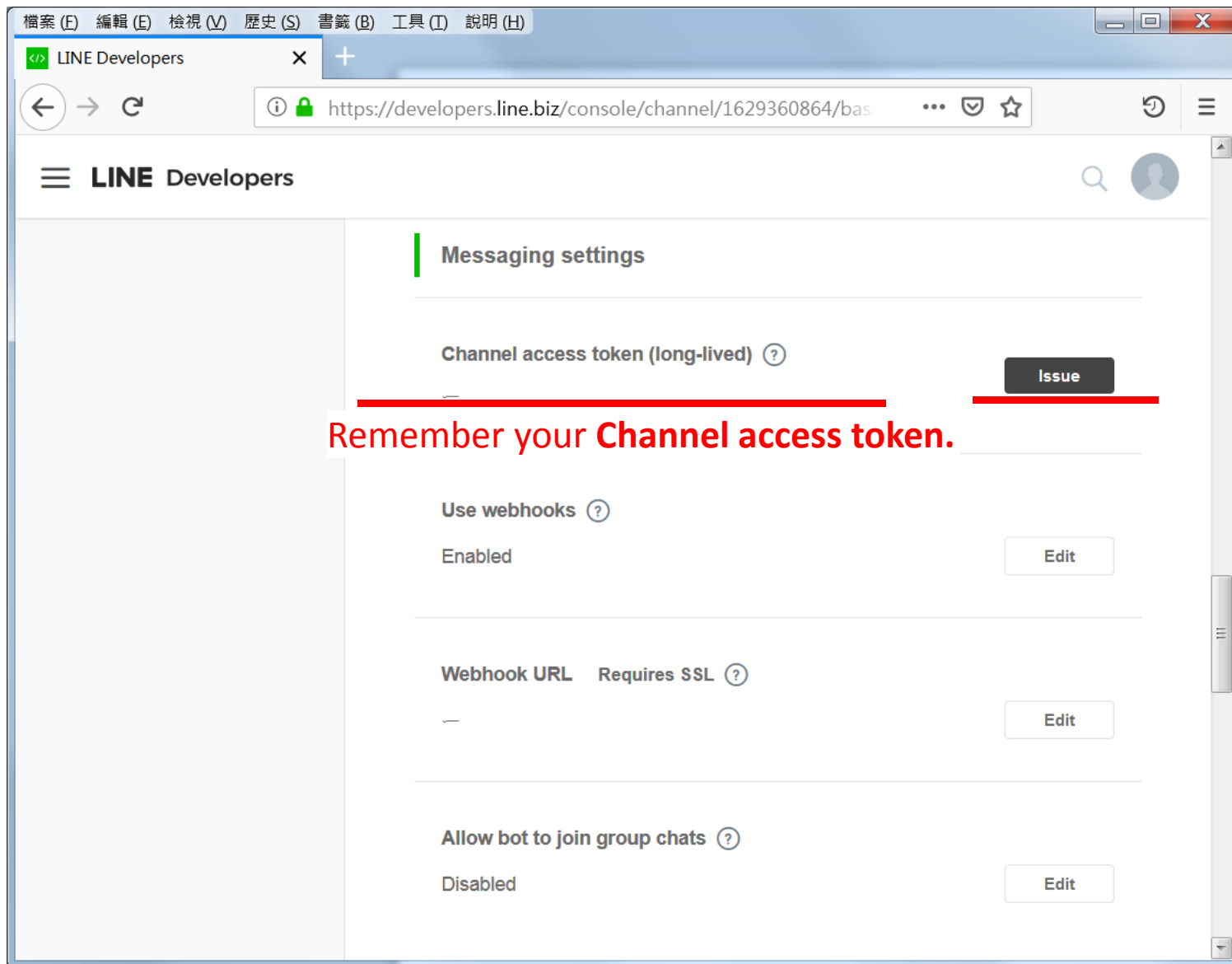
Admin

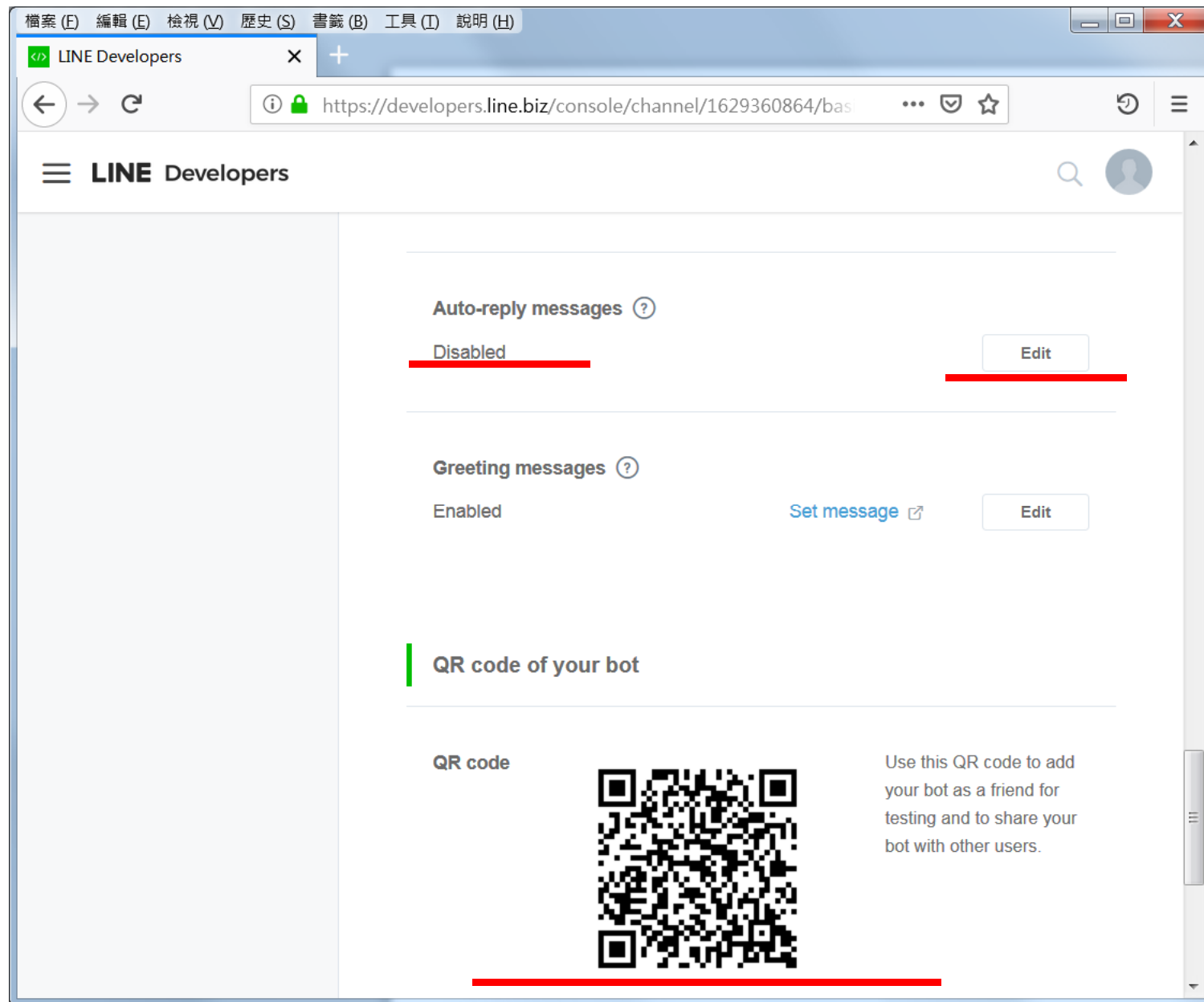


DEMO

Messaging API



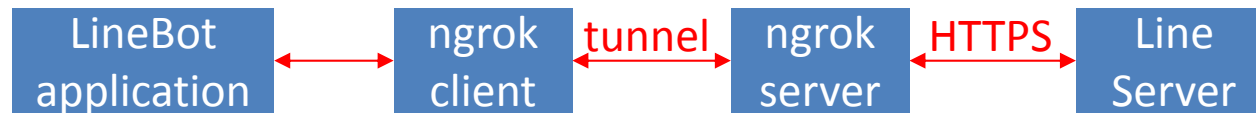




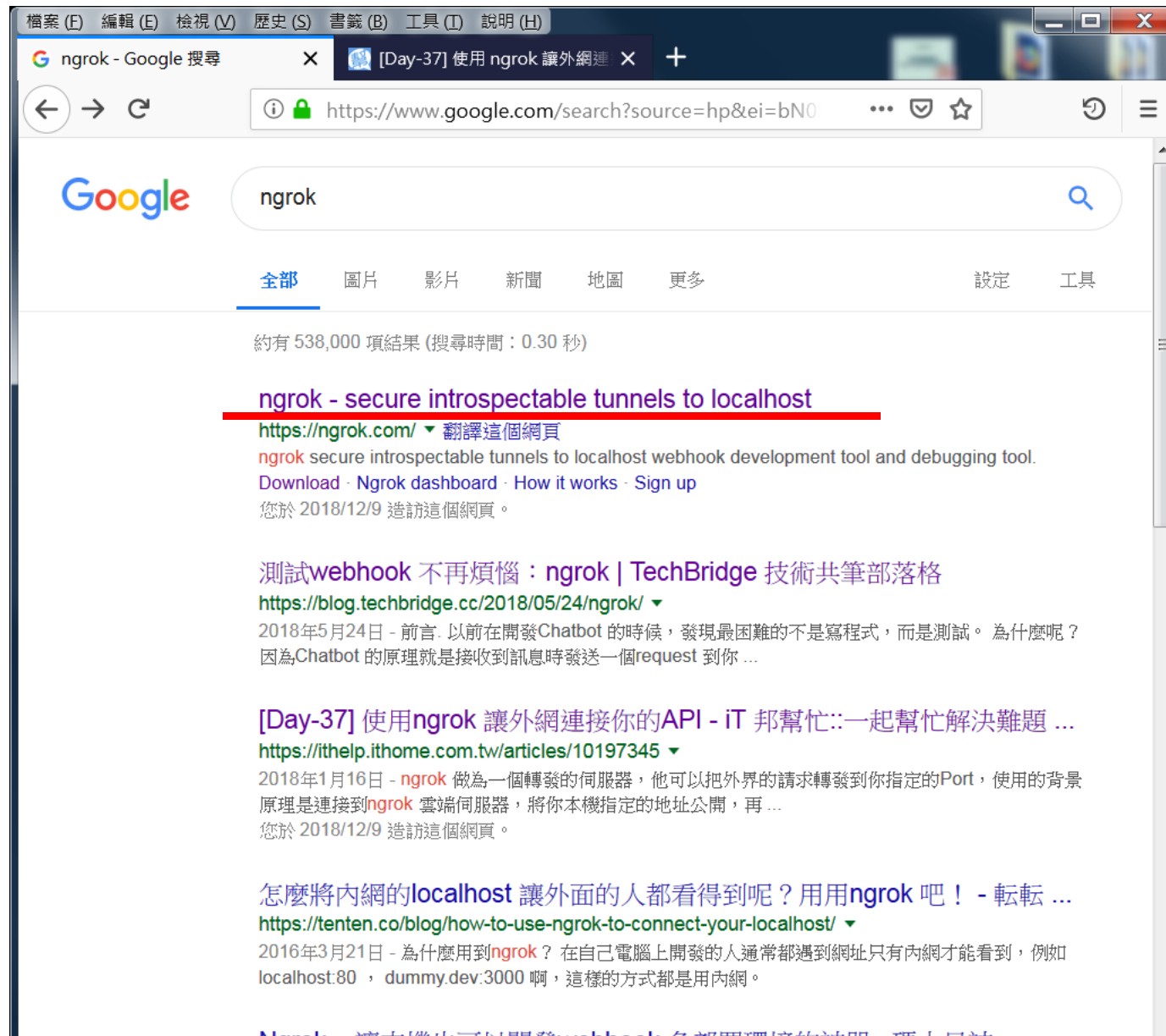
Scan the QR code to add your LineBot as a friend.

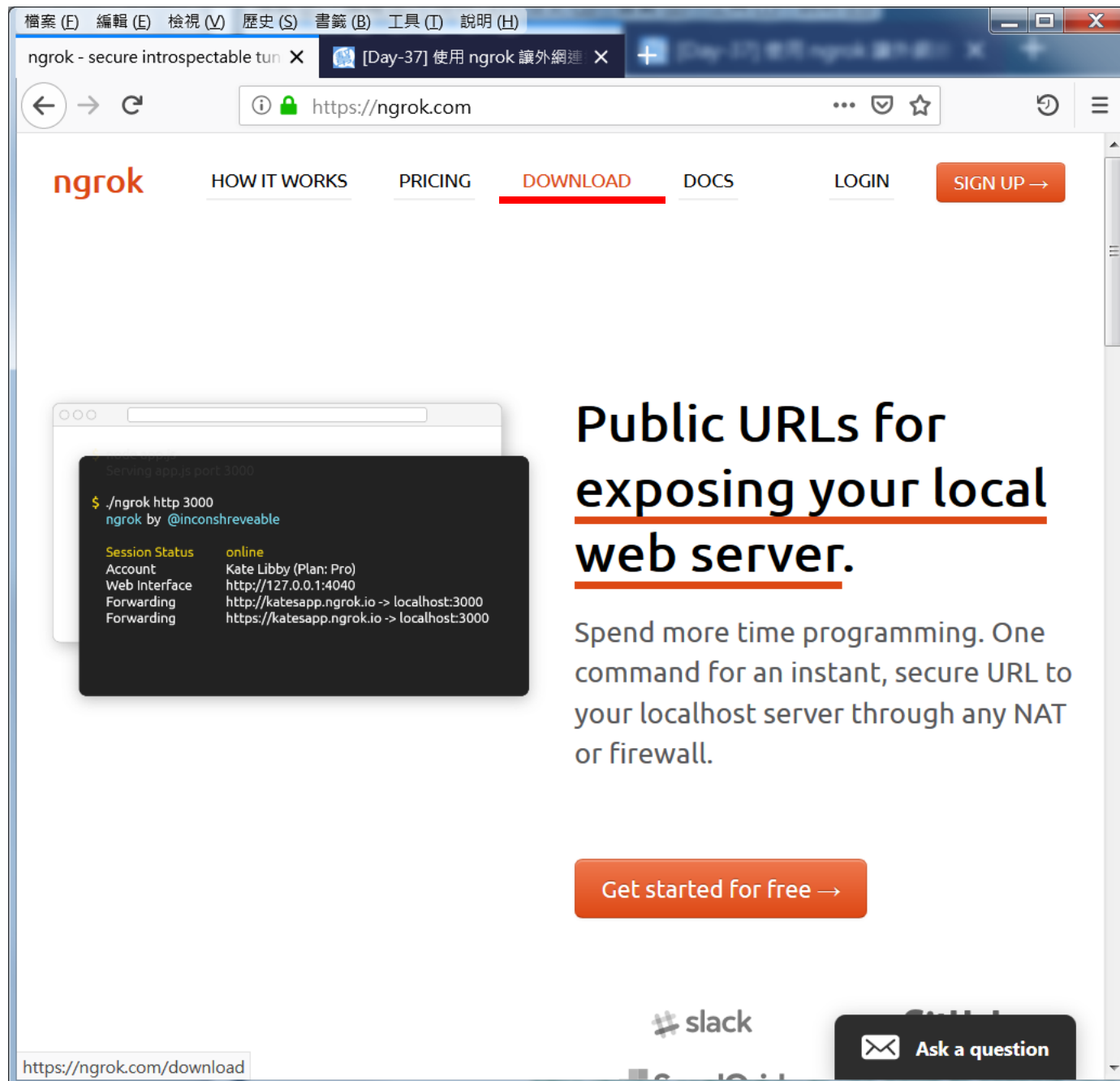
Activate LineBot Application through ngrok

We use **ngrok** instead of a https web server.



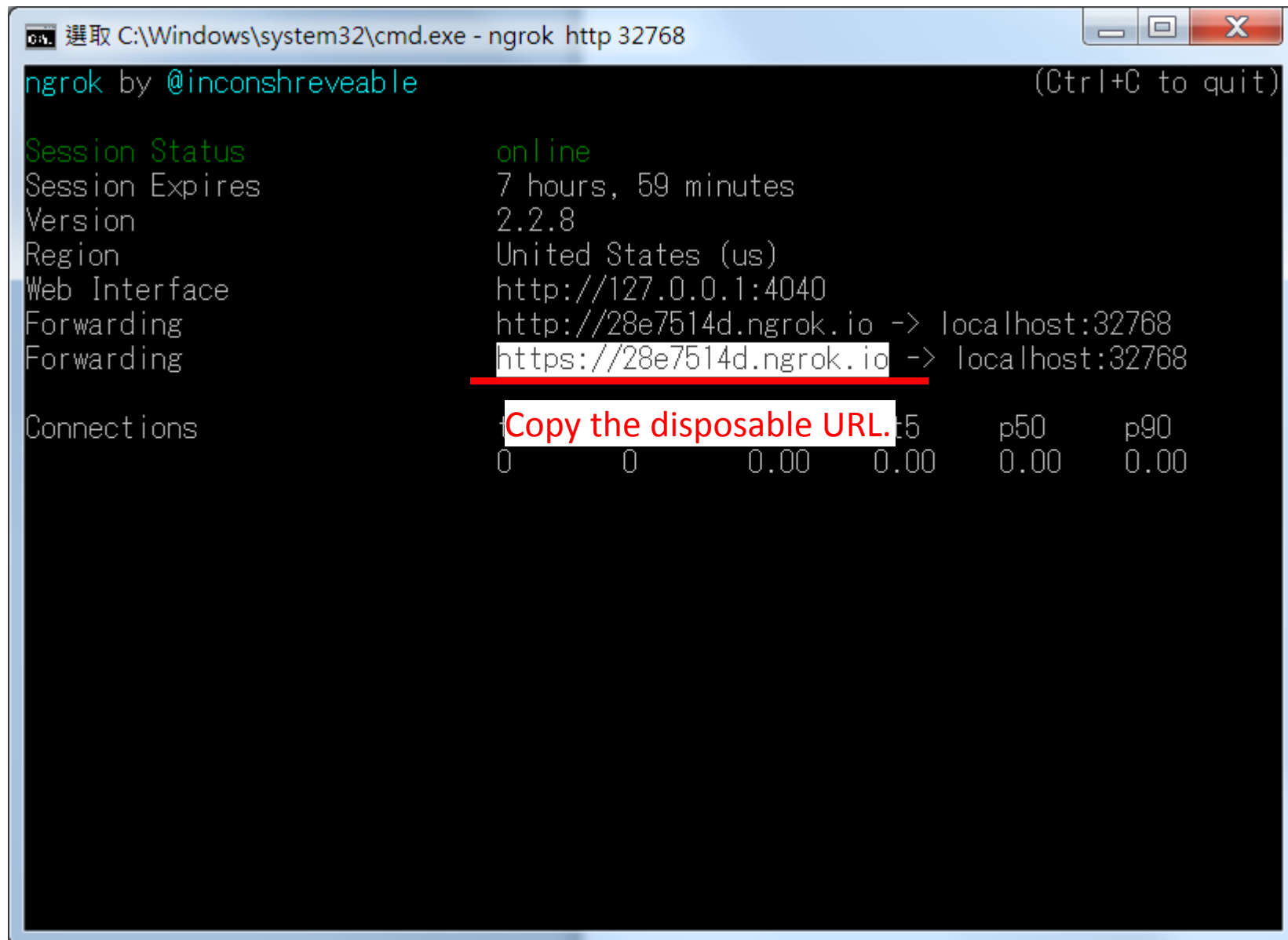
Download the ngrok client.





In the command line, use the cmd below to activate ngrok:

ngrok http 32768

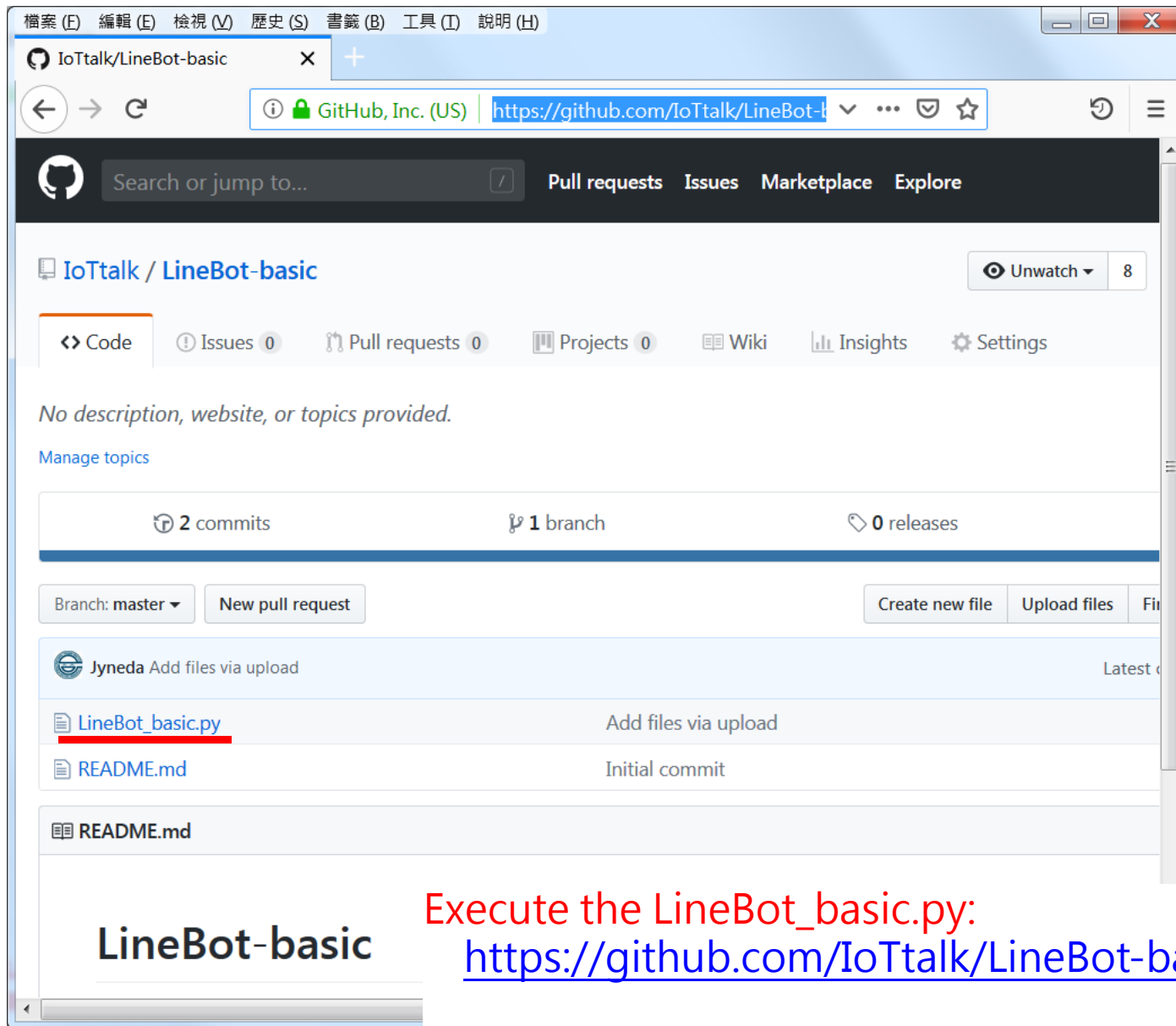


The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe - ngrok http 32768". The output of the ngrok command is displayed in a monospaced font. The status is "online", and the session expires in 7 hours and 59 minutes. The version is 2.2.8. The region is United States (us). The web interface is at http://127.0.0.1:4040. The forwarding URLs are http://28e7514d.ngrok.io -> localhost:32768 and https://28e7514d.ngrok.io -> localhost:32768. The connections table shows 0 connections, 0 pending, 0.00 successful, 0.00 failed, 0.00 p50, and 0.00 p90. A red box highlights the text "Copy the disposable URL." over the https forwarding URL.

```
ngrok by @inconshreveable (Ctrl+C to quit)

Session Status      online
Session Expires    7 hours, 59 minutes
Version            2.2.8
Region             United States (us)
Web Interface       http://127.0.0.1:4040
Forwarding          http://28e7514d.ngrok.io -> localhost:32768
Forwarding          https://28e7514d.ngrok.io -> localhost:32768
Connections

Copy the disposable URL.
  0      0      0.00      0.00      0.00      0.00
```



Execute the LineBot_basic.py:
<https://github.com/IoTtalk/LineBot-basic>

Python modules *line-bot-sdk* and *flask* are required.

```
LineBot_basic.py - C:\Users\Jyneda\Desktop\LineBot_basic.py (2.7.9)
File Edit Format Run Options Windows Help
# -*- coding: UTF-8 -*-

#Python module requirement: line-bot-sdk, flask
from flask import Flask, request, abort
from linebot import LineBotApi, WebhookHandler
from linebot.exceptions import InvalidSignatureError
from linebot.models import MessageEvent, TextMessage, TextSendMessage

line_bot_api = LineBotApi('LineBot Channel access token') #LineBot's Channel access token
handler = WebhookHandler('LineBot Channel secret') #LineBot's Channel secret
user_id_set=set() #LineBot's Friend's user id
app = Flask(__name__)

def loadUserId():
    try:
        idFile = open('idfile', 'r')
        idList = idFile.readlines()
        idFile.close()
        idList = idList[0].split(';')
        idList.pop()
        return idList
    except Exception:
        print('idfile not found')
        return []

def saveUserId():
    idFile = open('idfile', 'w')
    idFile.write(';'.join(user_id_set))
    idFile.close()

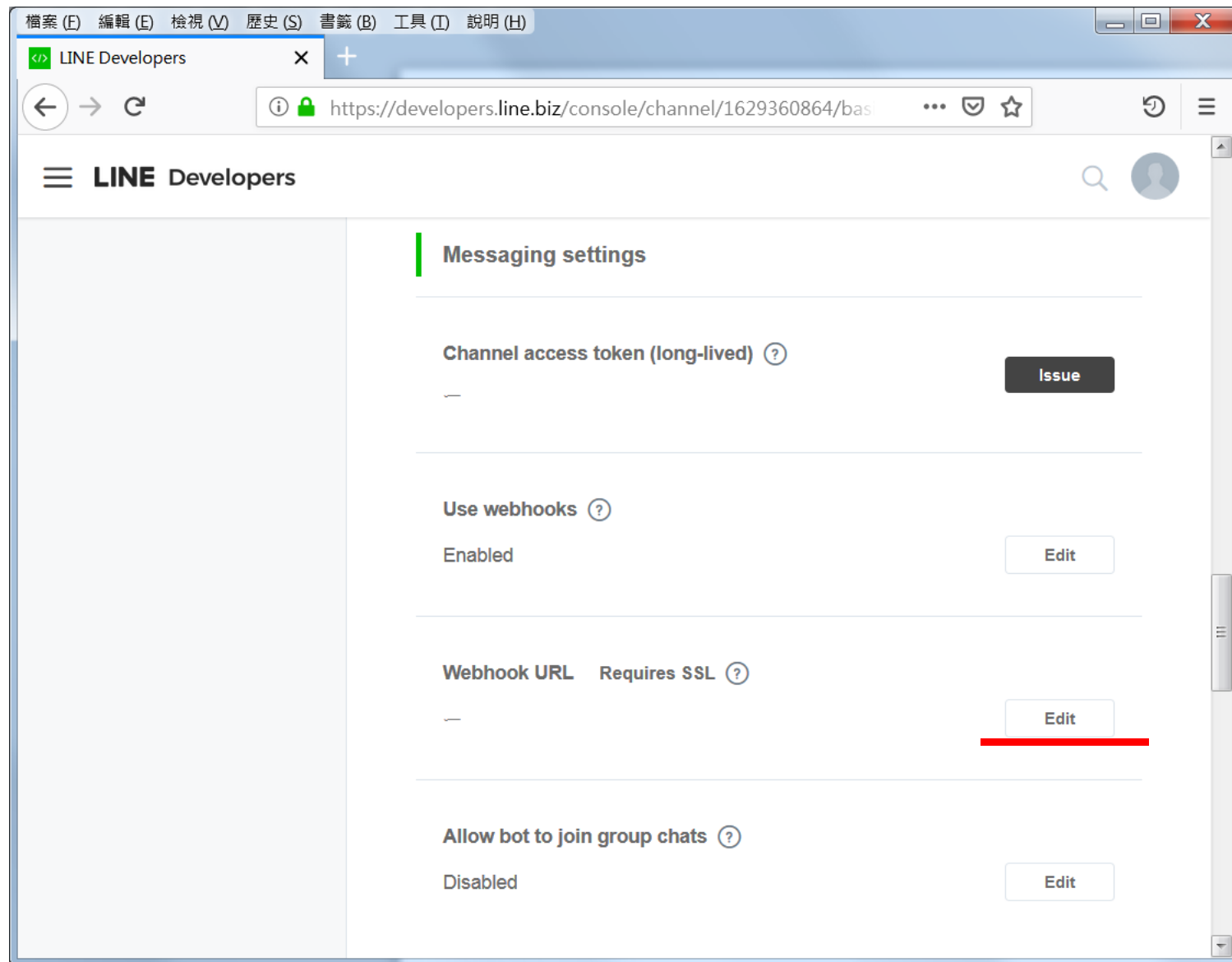
@app.route("/")
def hello():
    pass
```

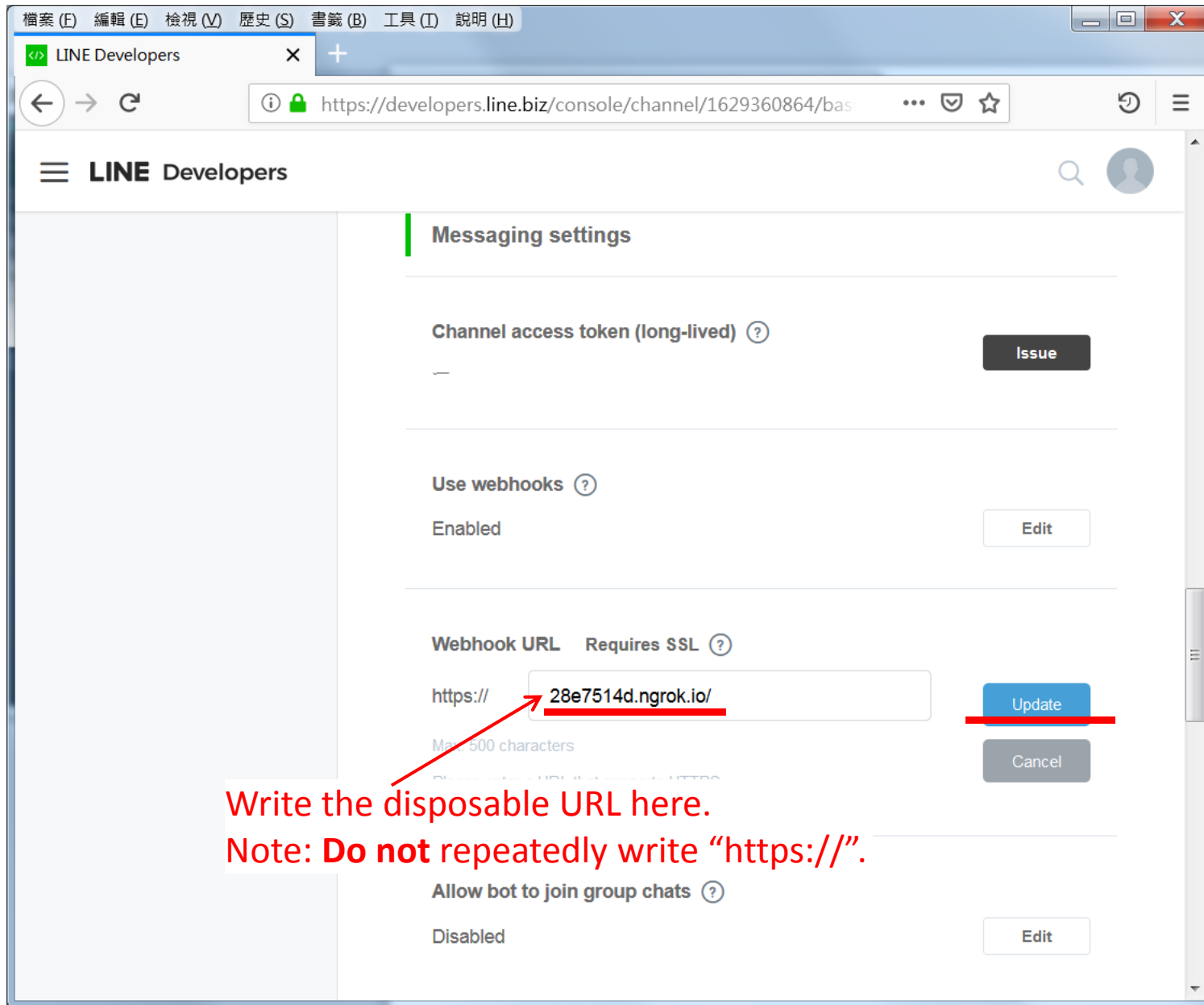
Change to your bot.

```
C:\Windows\system32\cmd.exe - python3 LineBot.py

C:\LineBot>python3 LineBot.py
[Errno 2] No such file or directory: 'idfile'
* Serving Flask app "LineBot" (lazy loading)
* Environment: production
  WARNING: Do not use the development server in a production environment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://127.0.0.1:32768/ (Press CTRL+C to quit)
```

Ignore this error message, don't worry.





messaging settings

Channel access token (long-lived) ?

Issue

Use webhooks ?

Enabled

Edit

Webhook URL Requires SSL ?

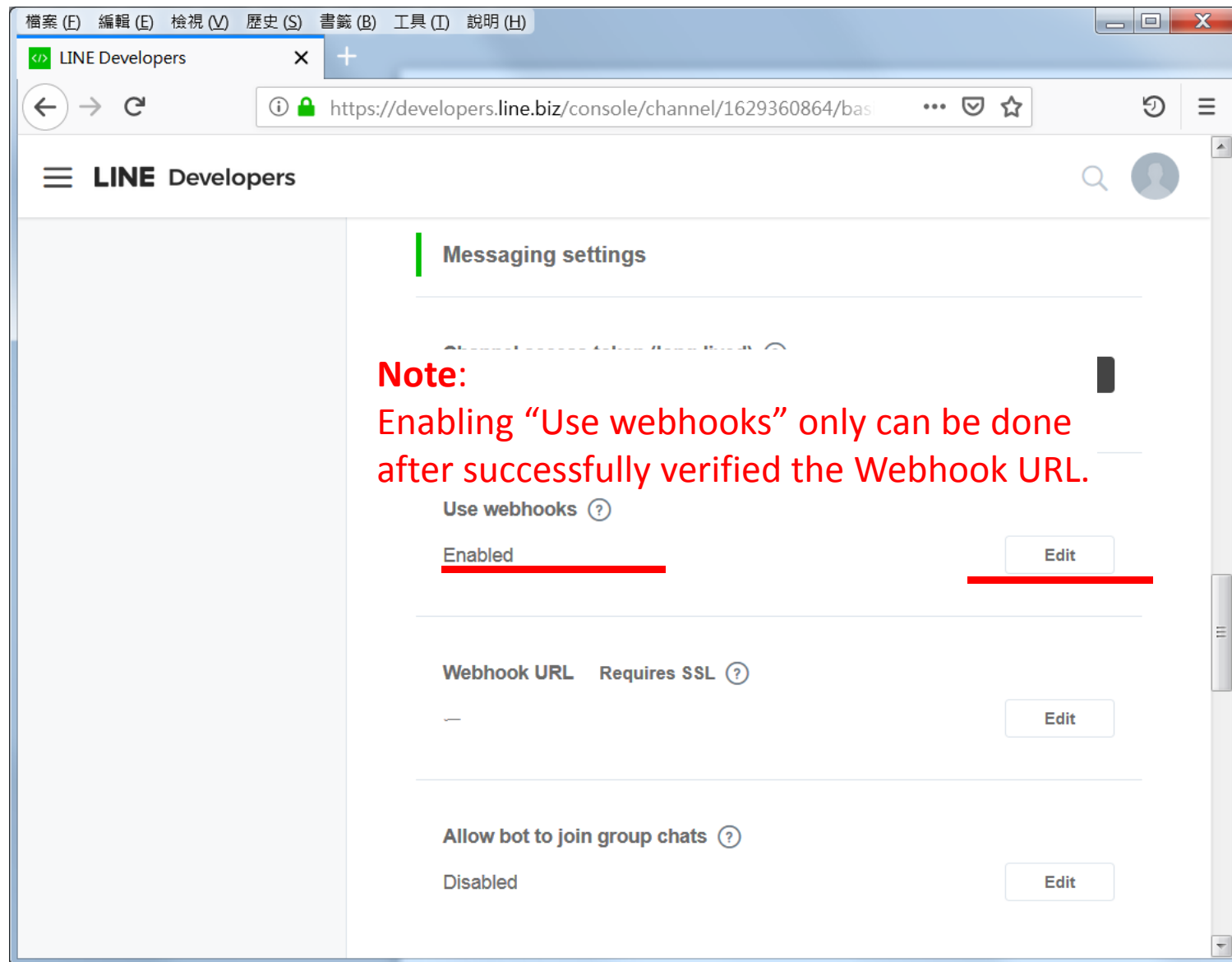
https://28e7514d.ngrok.io

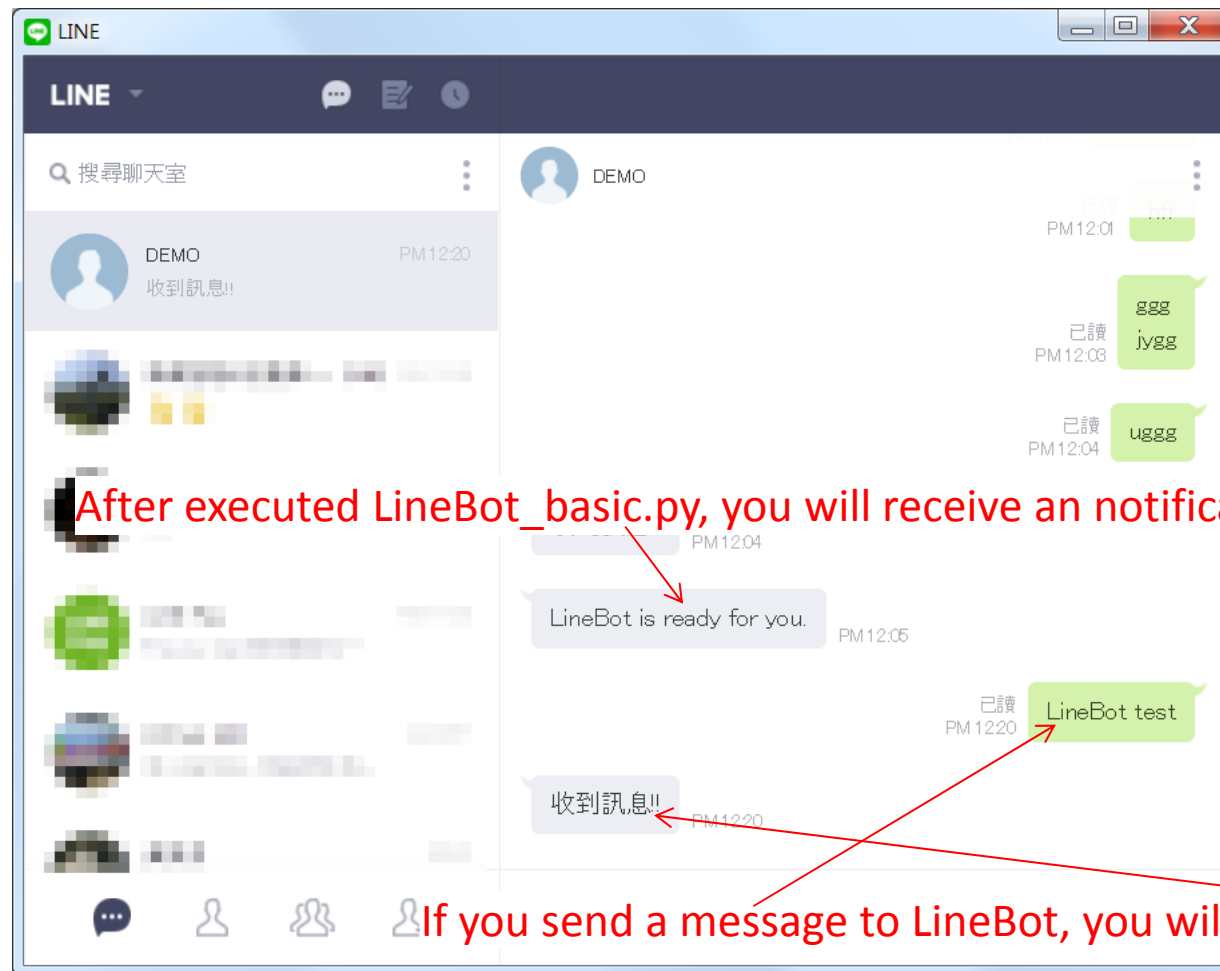
Verify

Edit

✓ Success

Allow bot to join group chats ?





After executed LineBot_basic.py, you will receive an notification.

If you send a message to LineBot, you will get an ack.