Create Your LineBot

Dr. Yun-Wei Lin

Outline

1. Network Architecture
2. Create LineBot Account
3. Verify Your LineBot Application (Webhook)

1. Network Architecture

LineBot Application Network Architecture

Normally, the network architecture of the LineBot application is

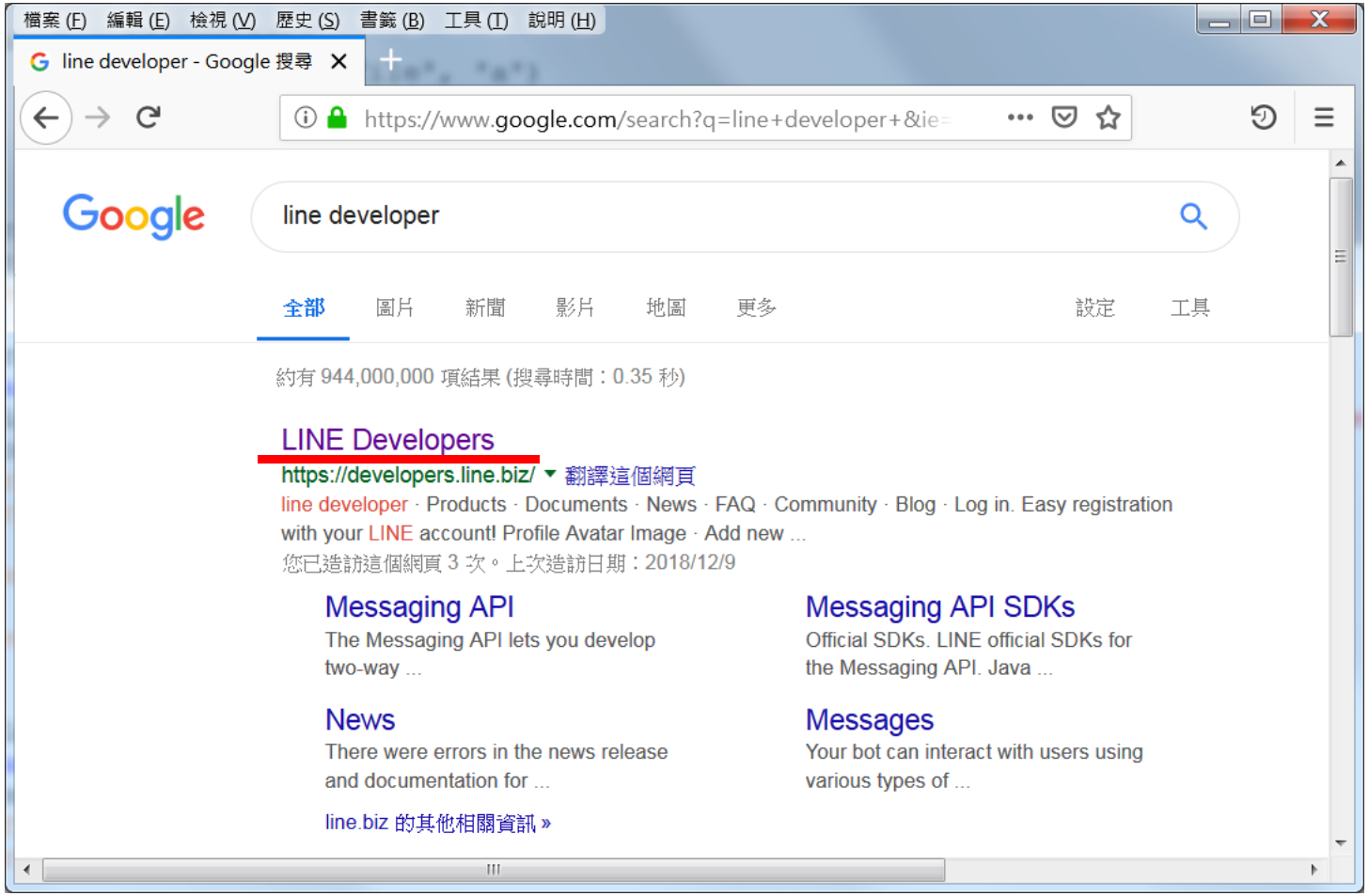
To activate a web server with HTTPS service, several things are required:

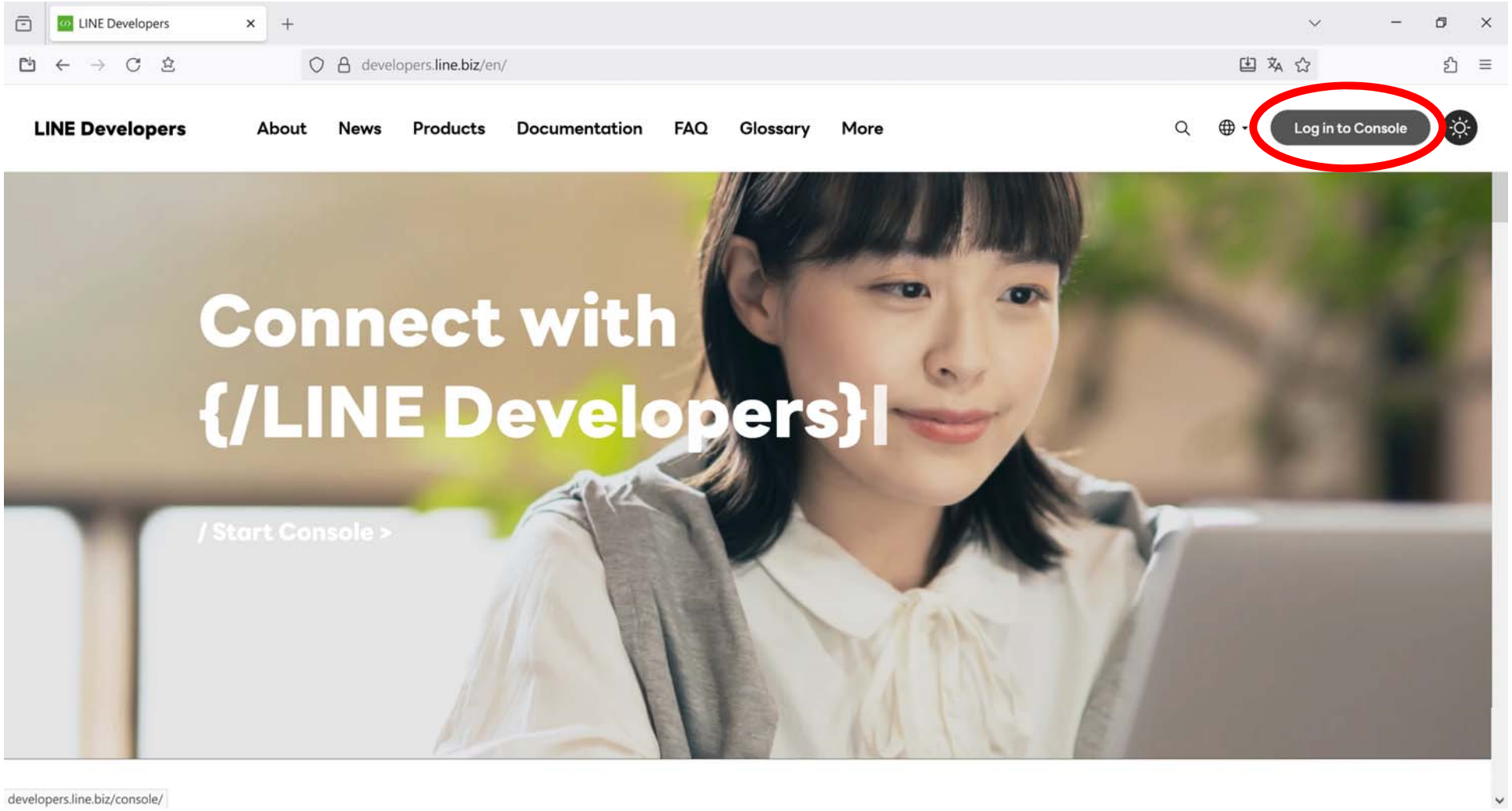
1. a server
2. a domain name
3. a SSL certificate

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

2. Create LineBot Account

Apply a LINE developer account




LINE Developers
developers.line.biz/en/
LINE Developers
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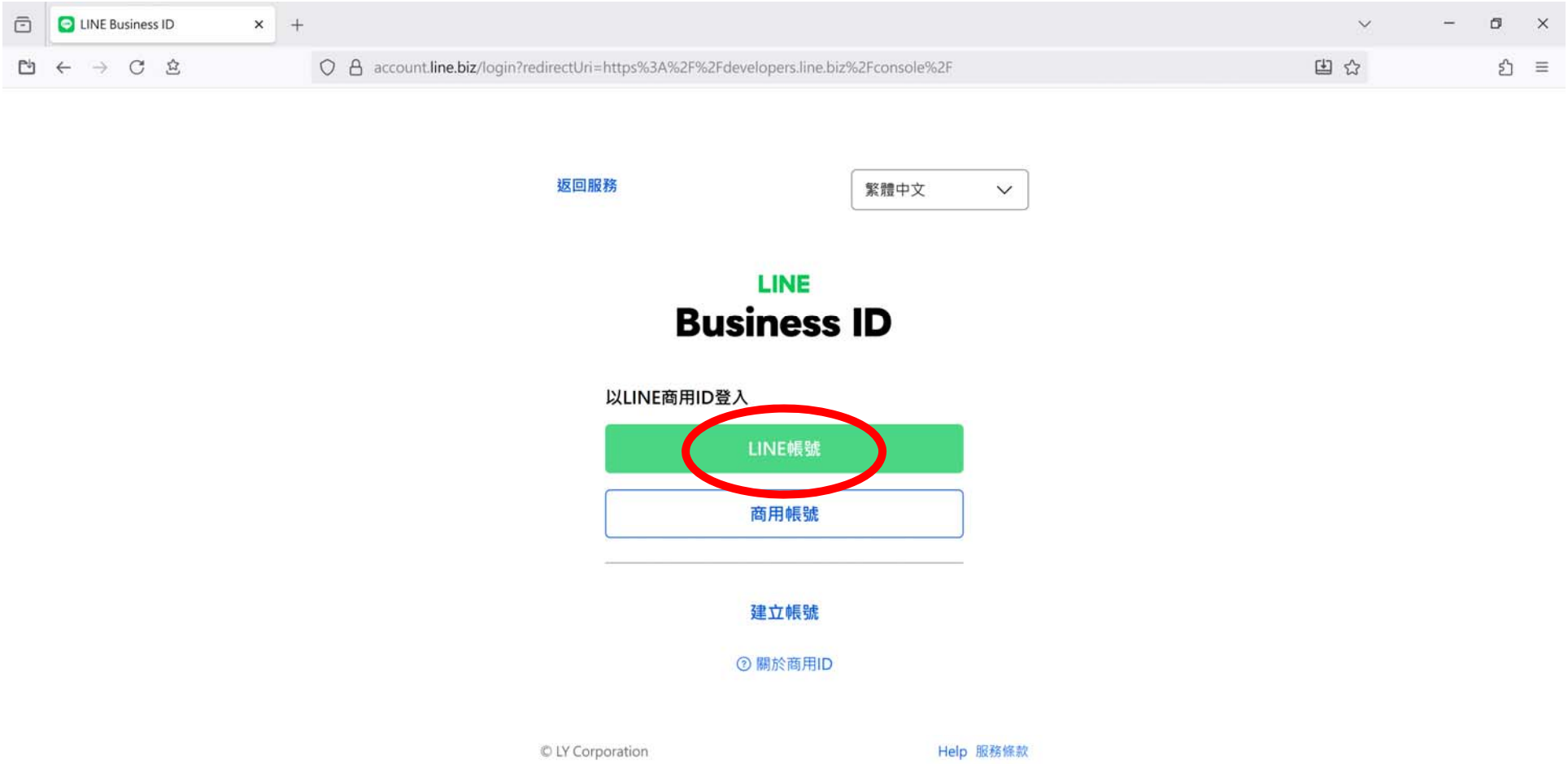
More
Log in to Console
Connect with
{/LINE Developers}
/ Start Console >
developers.line.biz/console/


LINE Business ID
account.line.biz/login?redirectUri=https%3A%2F%2Fdevelopers.line.biz%2Fconsole%2F
返回服務
繁體中文
LINE
Business ID
以LINE商用ID登入
LINE帳號
商用帳號
建立帳號
關於商用ID
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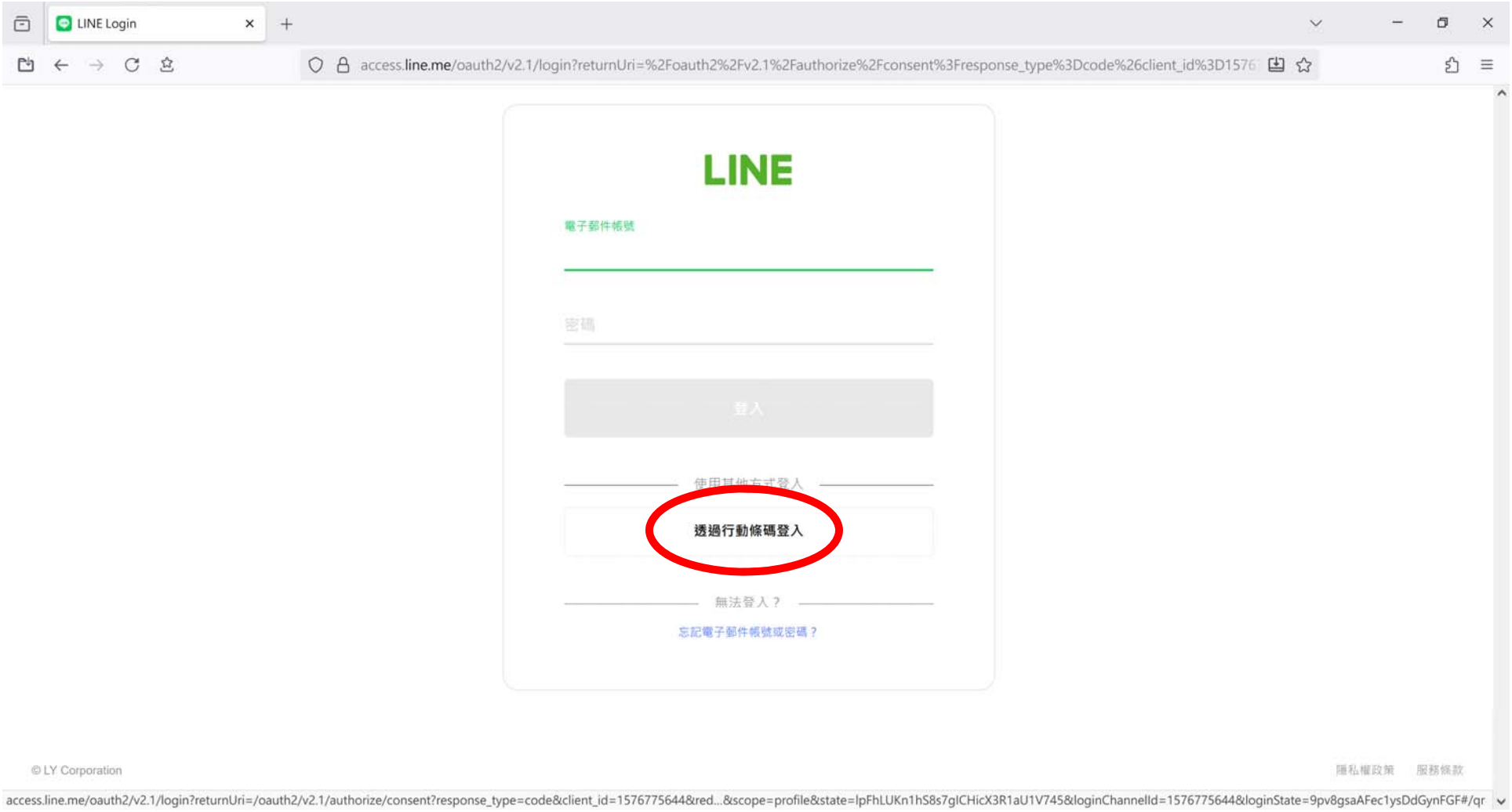
Help 服務條款


LINE Login
access.line.me/oauth2/v2.1/login?returnUri=%2Foauth2%2Fv2.1%2Fauthorize%2Fconsent%3Fresponse_type%3Dcode%26client_id%3D1576
LINE
電子郵件帳號
密碼
登入
使用其他方式登入
透過行動條碼登入
無法登入？
忘記電子郵件帳號或密碼？
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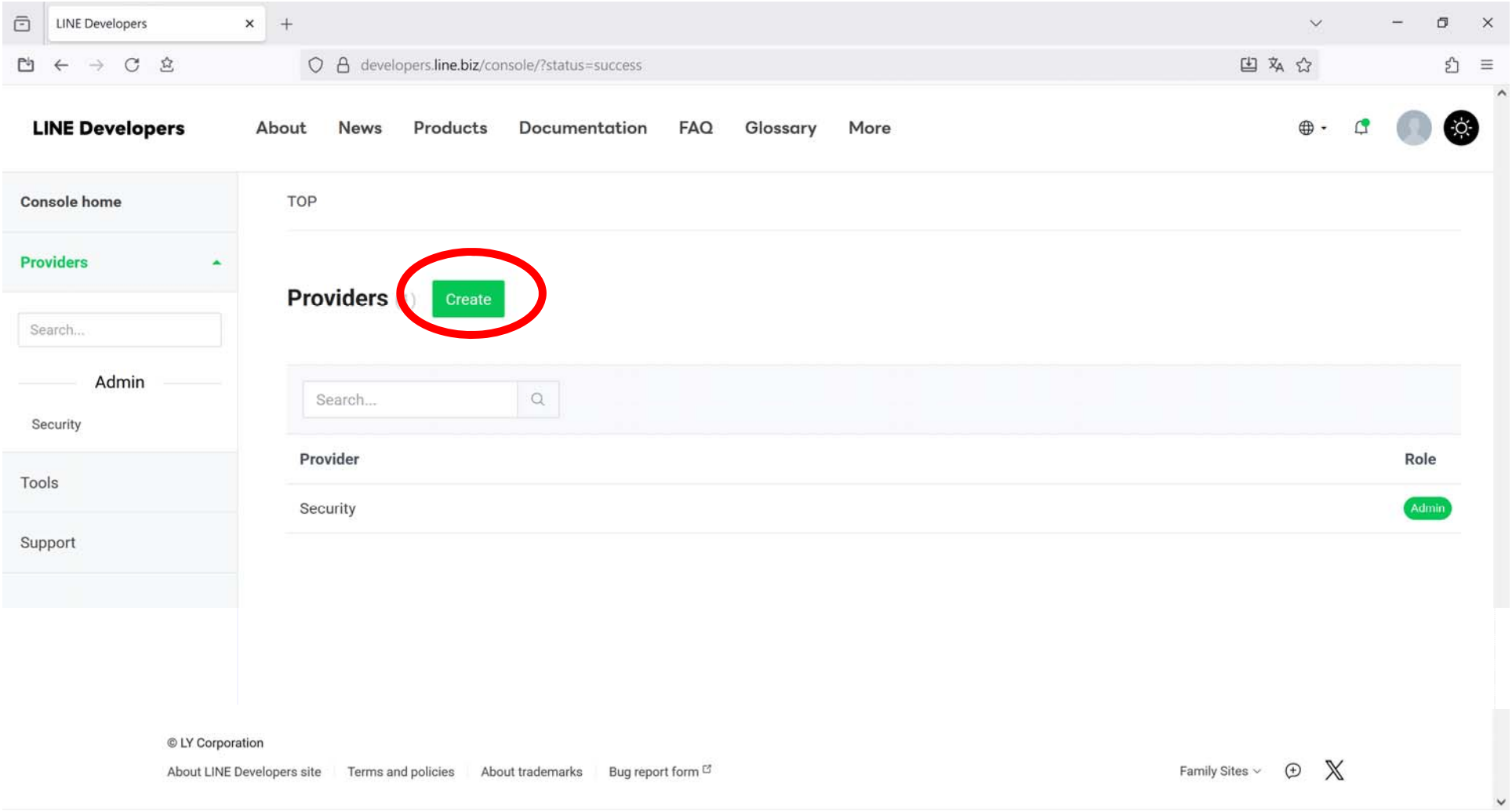
隱私權政策
服務條款
access.line.me/oauth2/v2.1/login?returnUri=/oauth2/v2.1/authorize/consent?response_type=code&client_id=1576775644&red...&scope=profile&state=lpFhLUKn1hS8s7glCHicX3R1aU1V745&loginChannelId=1576775644&loginState=9pv8gsaAFec1ysDdGynFGF#/qr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developers.line.biz/console/?status=success
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Providers
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Search...
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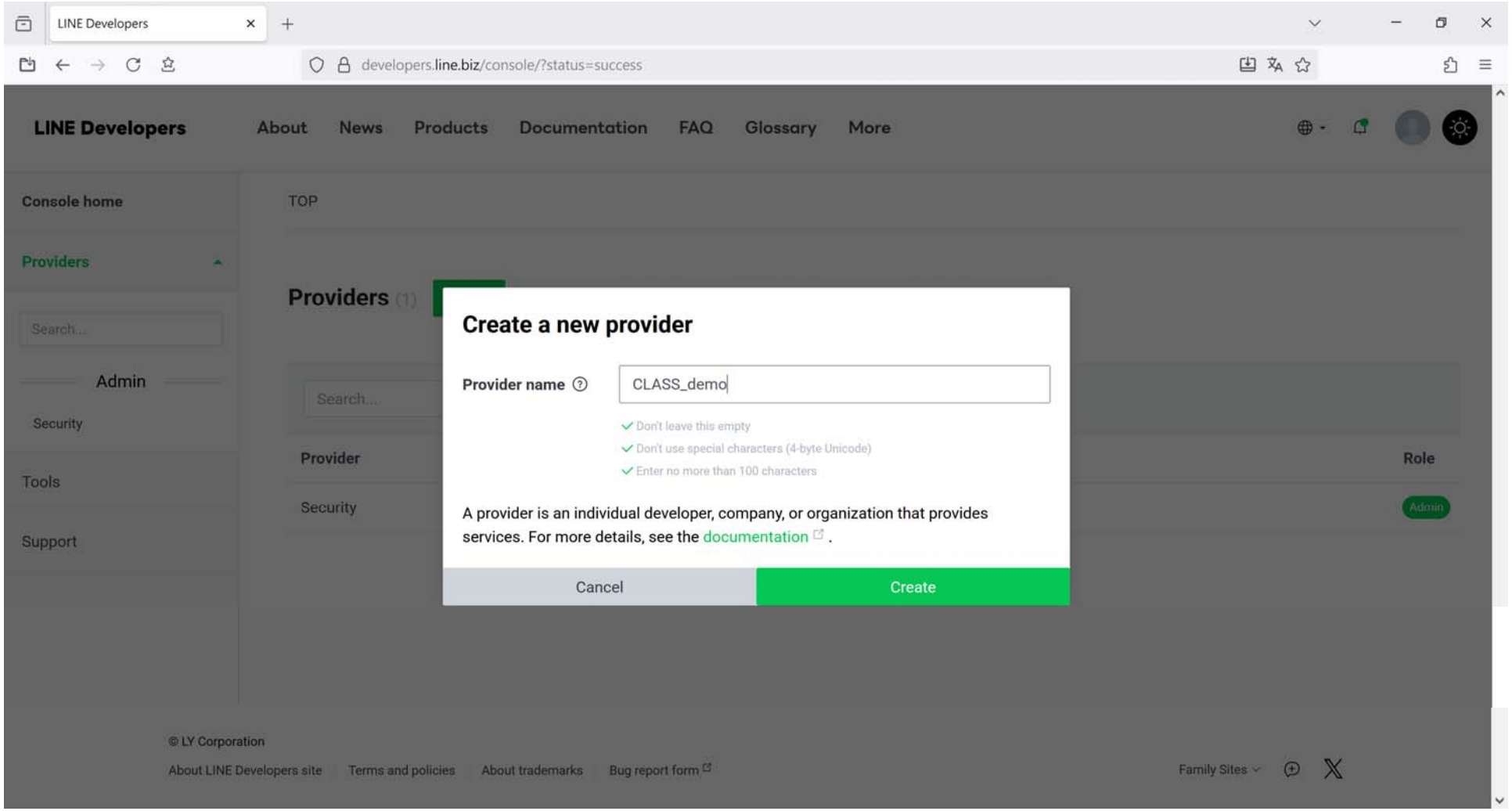
LINE Developers
developers.line.biz/console/?status=success
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Providers (1)
Search...
Provider
Role
Security
Admin
Create a new provider
Provider name
CLASS_demo
Don't leave this empty
Don't use special characters (4-byte Unicode)
Enter no more than 100 characters
A provider is an individual developer, company, or organization that provides services. For more details, see the documentation .
Cancel
Create
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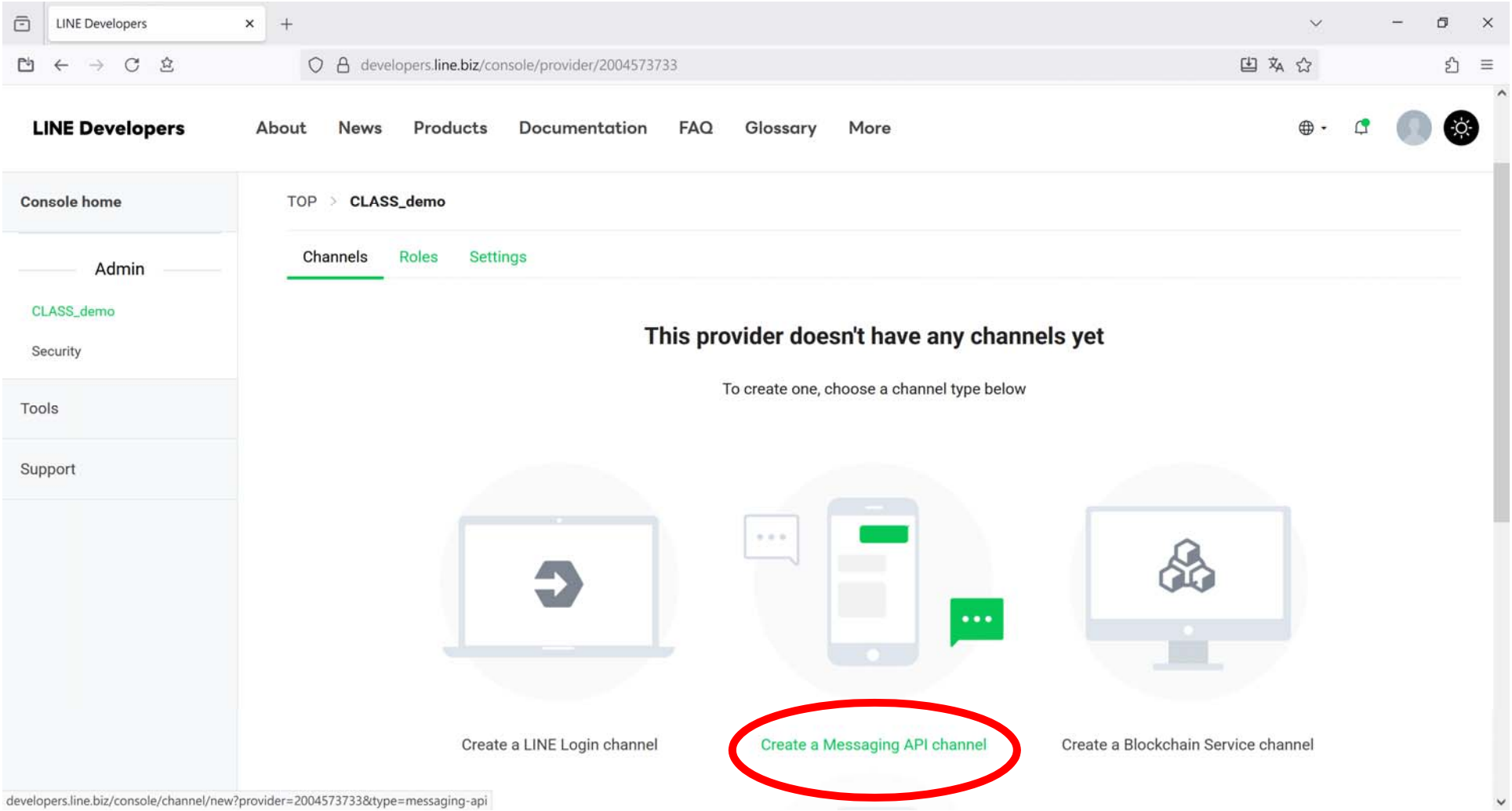
LINE Developers
developers.line.biz/console/provider/2004573733
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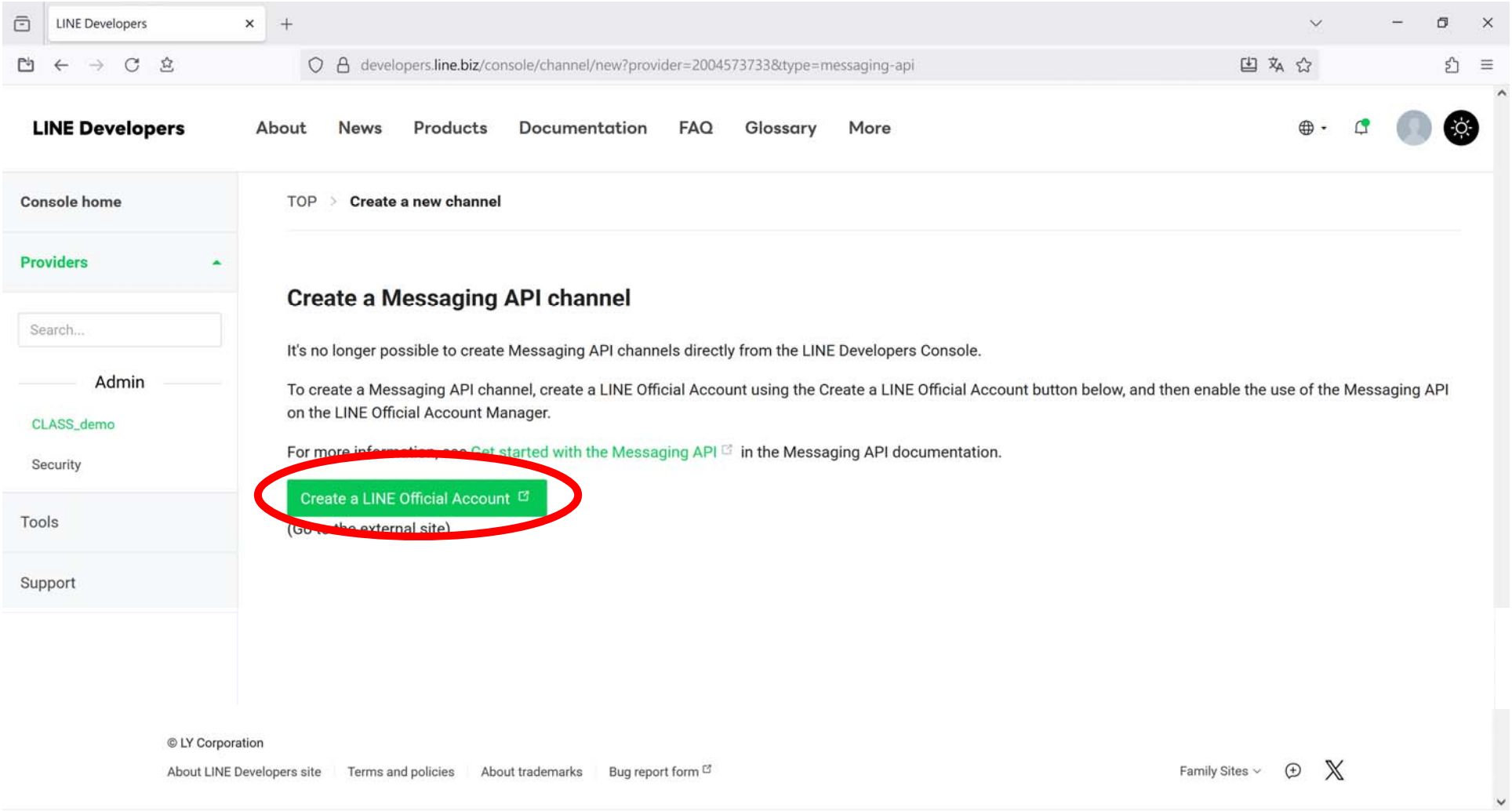
CLASS_demo
Channels
Roles
Settings
This provider doesn't have any channels yet
To create one, choose a channel type below
Create a LINE Login channel
Create a Messaging API channel
Create a Blockchain Service channel
developers.line.biz/console/channel/new?provider=2004573733&type=messaging-api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developers.line.biz/console/channel/new?provider=2004573733&type=messaging-api
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Create a new channel
Create a Messaging API channel
It's no longer possible to create Messaging API channels directly from the LINE Developers Console.
To create a Messaging API channel, create a LINE Official Account using the Create a LINE Official Account button below, and then enable the use of the Messaging API on the LINE Official Account Manager.
For more information, see Get started with the Messaging API in the Messaging API documentation.
Create a LINE Official Account
(Go to the external site)
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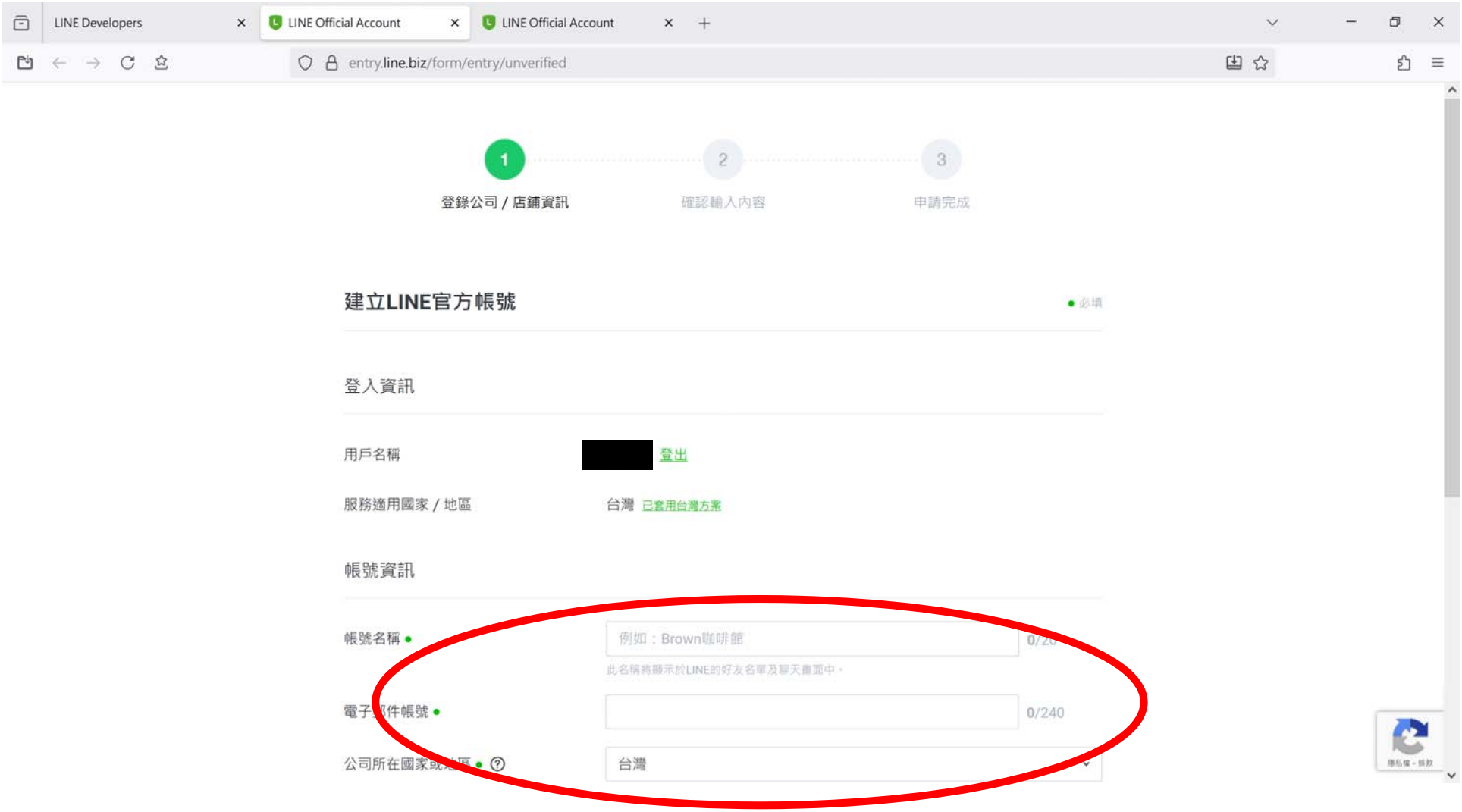

LINE Developers
LINE Official Account
LINE Official Account
entry.line.biz/form/entry/unverified
1
登錄公司 / 店鋪資訊
2
確認輸入內容
3
申請完成
建立LINE官方帳號
必填
登入資訊
用戶名稱
登出
服務適用國家 / 地區
台灣 已套用台灣方案
帳號資訊
帳號名稱
例如：Brown咖啡館
0/20
此名稱將顯示於LINE的好友名單及聊天畫面中。
電子郵件帳號
0/240
公司所在國家或地區
台灣

ry.line.biz/form/entry/unverified/confirmation
1
登錄公司／店鋪資訊
2
確認輸入內容
3
申請完成
確認輸入內容
帳號資訊
帳號名稱
Class
電子郵件帳號
[redacted]com
公司所在國家或地區
台灣
公司名稱
業種
學校・研究所、大學
取消
完成

業種　学校・研究所、大学

基本ID　@334hsguv

擁有認證官方帳號使用更方便

使用企業或店鋪等公司・自營業的帳號時，完成帳號認證即可更輕鬆使用服務。

申請方式非常簡單！

推薦您使用認證官方帳號來從事公司或店家業務

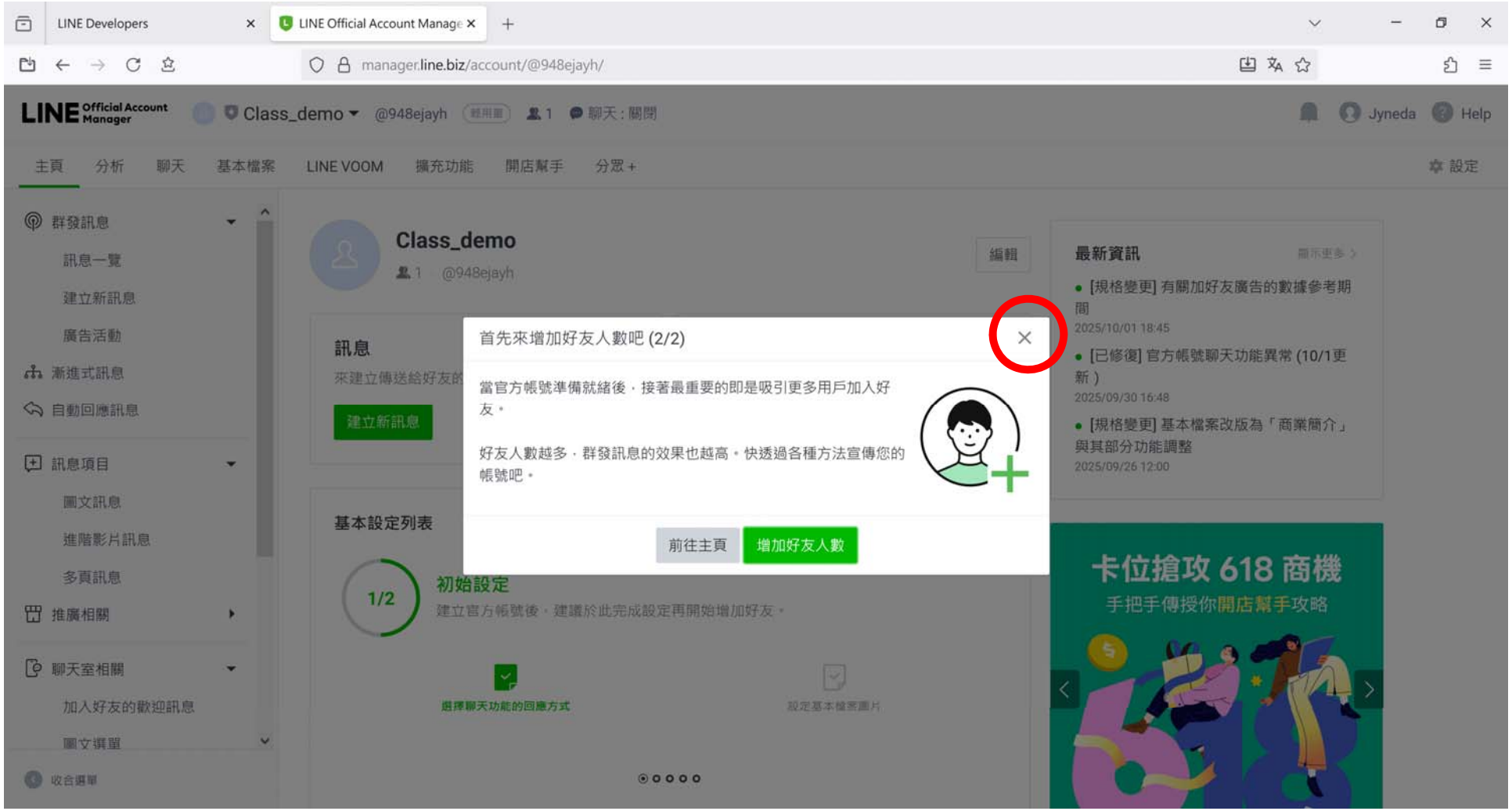
賦予認證圖示

會顯示於LINE應用程式的搜尋結果中

可使用海報和輔銷物功能

申請認證帳號

稍後進行認證（前往管理畫面）


LINE Developers
LINE Official Account Manage
manager.line.biz/account/@948ejayh/
LINE Official Account Manager
Class_demo
@948ejayh
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廣告活動
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自動回應訊息
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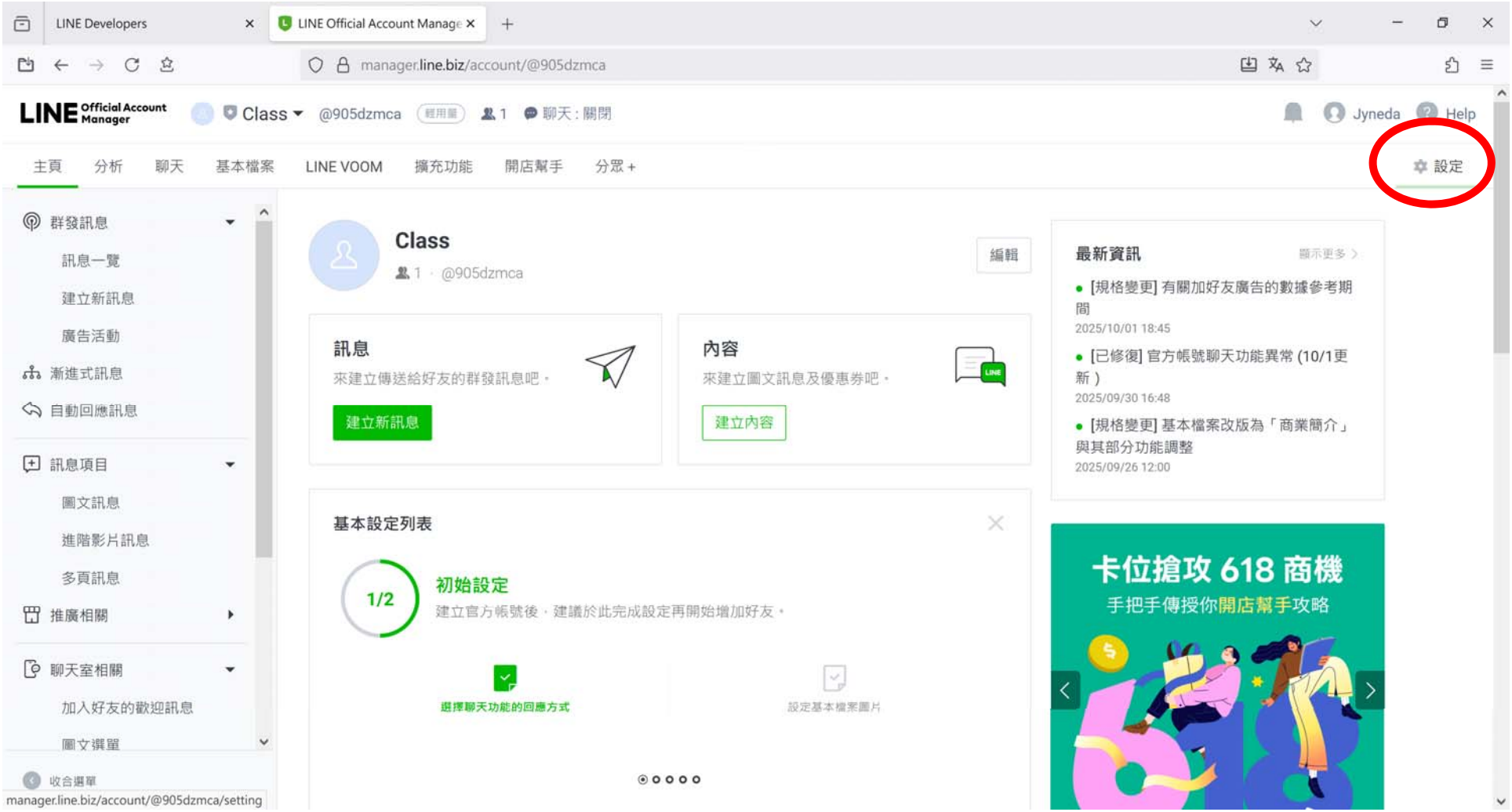
圖文訊息
進階影片訊息
多頁訊息
推廣相關
聊天室相關
加入好友的歡迎訊息
圖文選單
收合選單
Class_demo
1 @948ejayh
編輯
訊息
來建立傳送給好友的
建立新訊息
基本設定列表
1/2
初始設定
建立官方帳號後，建議於此完成設定再開始增加好友。
選擇聊天功能的回應方式
設定基本檔案圖片
首先來增加好友人數吧 (2/2)
當官方帳號準備就緒後，接著最重要的即是吸引更多用戶加入好友。
好友人數越多，群發訊息的效果也越高。快透過各種方法宣傳您的帳號吧。
前往主頁
增加好友人數
最新資訊
顯示更多
[規格變更] 有關加好友廣告的數據參考期間
2025/10/01 18:45
[已修復] 官方帳號聊天功能異常 (10/1更新)
2025/09/30 16:48
[規格變更] 基本檔案改版為「商業簡介」與其部分功能調整
2025/09/26 12:00
卡位搶攻 618 商機
手把手傳授你開店幫手攻略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manager.line.biz/account/@905dzmca
LINE Official Account Manager
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進階影片訊息
多頁訊息
推廣相關
聊天室相關
加入好友的歡迎訊息
圖文選單
收合選單
Class
1 · @905dzmca
編輯
訊息
來建立傳送給好友的群發訊息吧。
建立新訊息
內容
來建立圖文訊息及優惠券吧。
建立內容
最新資訊
顯示更多
[規格變更] 有關加好友廣告的數據參考期間
2025/10/01 18:45
[已修復] 官方帳號聊天功能異常 (10/1更新)
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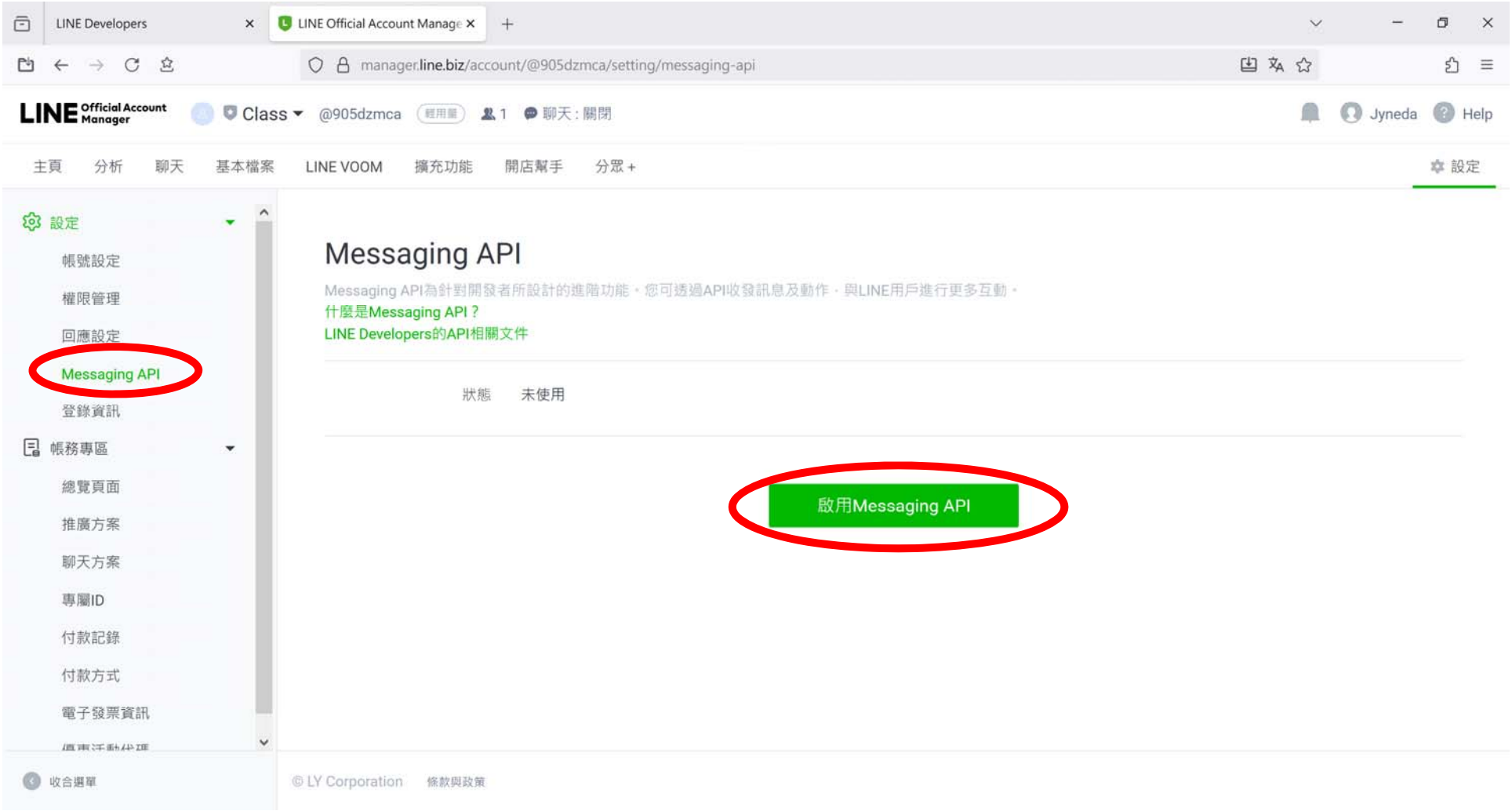
2025/09/26 12:00
基本設定列表
1/2
初始設定
建立官方帳號後，建議於此完成設定再開始增加好友。
選擇聊天功能的回應方式
設定基本檔案圖片
卡位搶攻 618 商機
手把手傳授你開店幫手攻略
manager.line.biz/account/@905dzmca/setting


LINE Developers
LINE Official Account Manage
manager.line.biz/account/@905dzmca/setting/messaging-api
LINE Official Account Manager
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聊天：關閉
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電子發票資訊
收合選單
Messaging API
Messaging API為針對開發者所設計的進階功能，您可透過API收發訊息及動作，與LINE用戶進行更多互動。
什麼是Messaging API？
LINE Developers的API相關文件
狀態
未使用
啟用Messaging API
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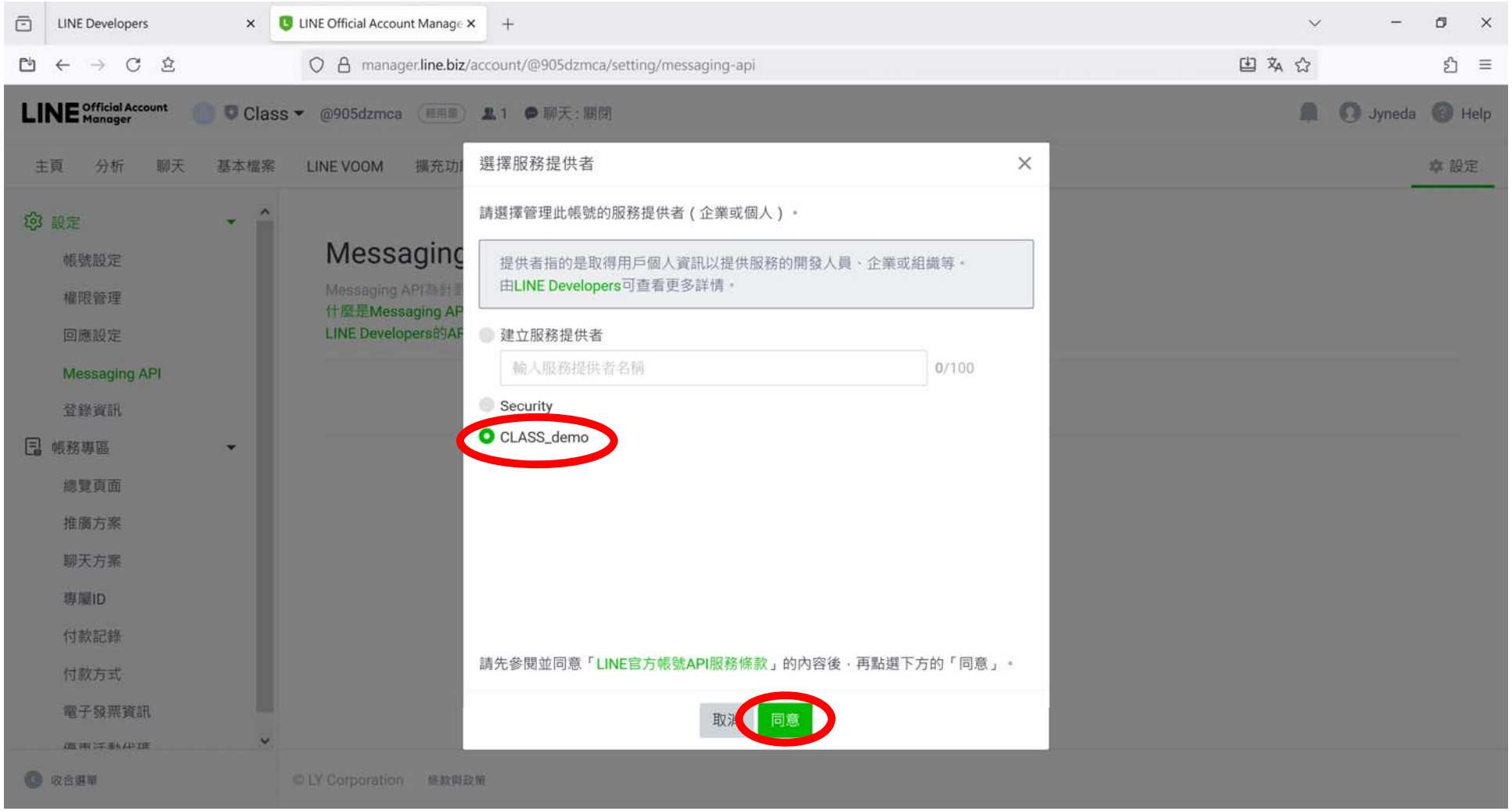
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manager.line.biz/account/@905dzmca/setting/messaging-api
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Messaging
選擇服務提供者
請選擇管理此帳號的服務提供者（企業或個人）。
提供者指的是取得用戶個人資訊以提供服務的開發人員、企業或組織等。
由LINE Developers可查看更多詳情。
建立服務提供者
輸入服務提供者名稱
0/100
Security
CLASS_demo
請先參閱並同意「LINE官方帳號API服務條款」的內容後，再點選下方的「同意」。
取消
同意
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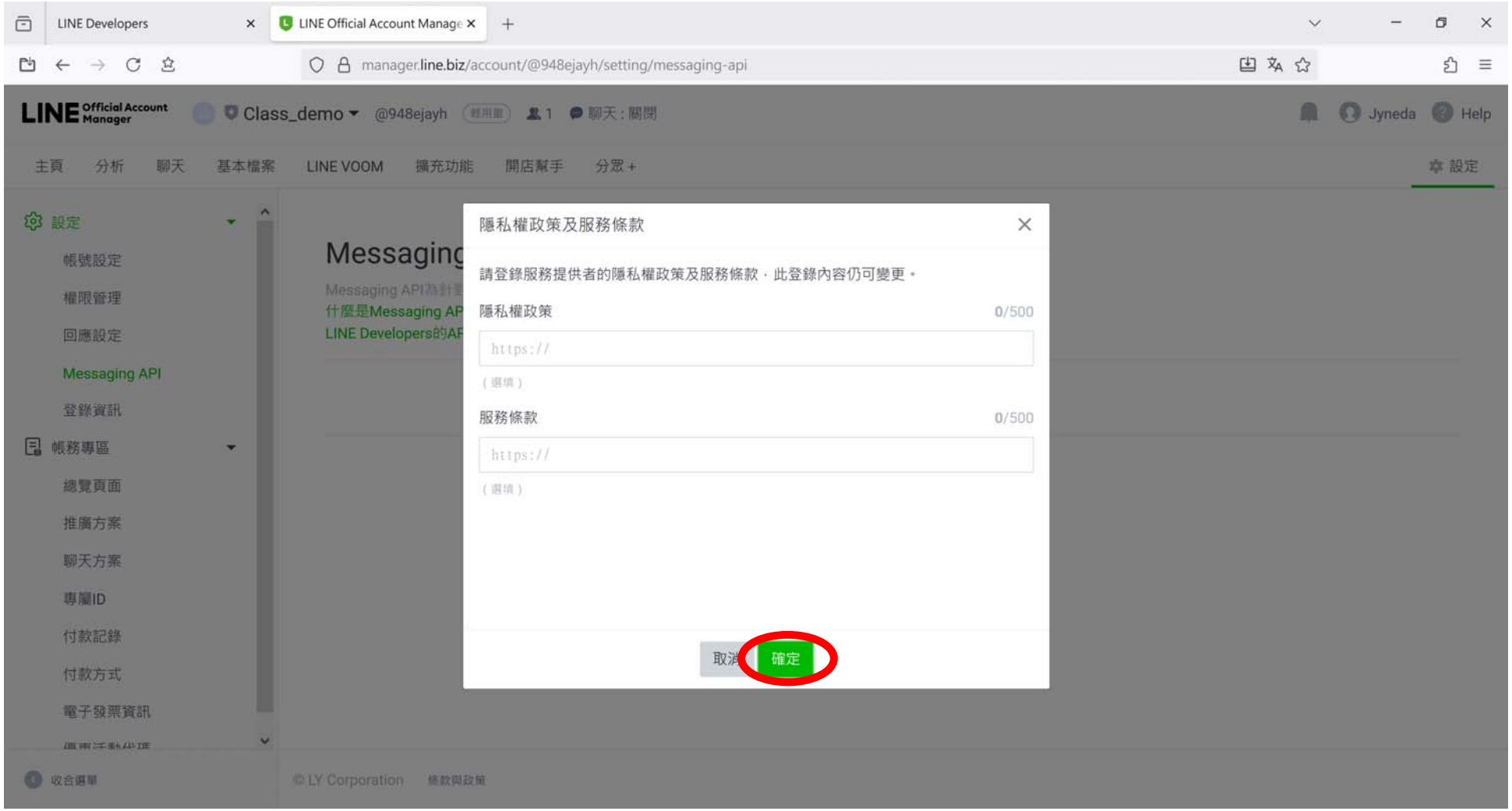
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電子發票資訊
Messaging
隱私權政策及服務條款
請登錄服務提供者的隱私權政策及服務條款，此登錄內容仍可變更。
隱私權政策
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https://
（選填）
服務條款
0/500
https://
（選填）
取消
確定
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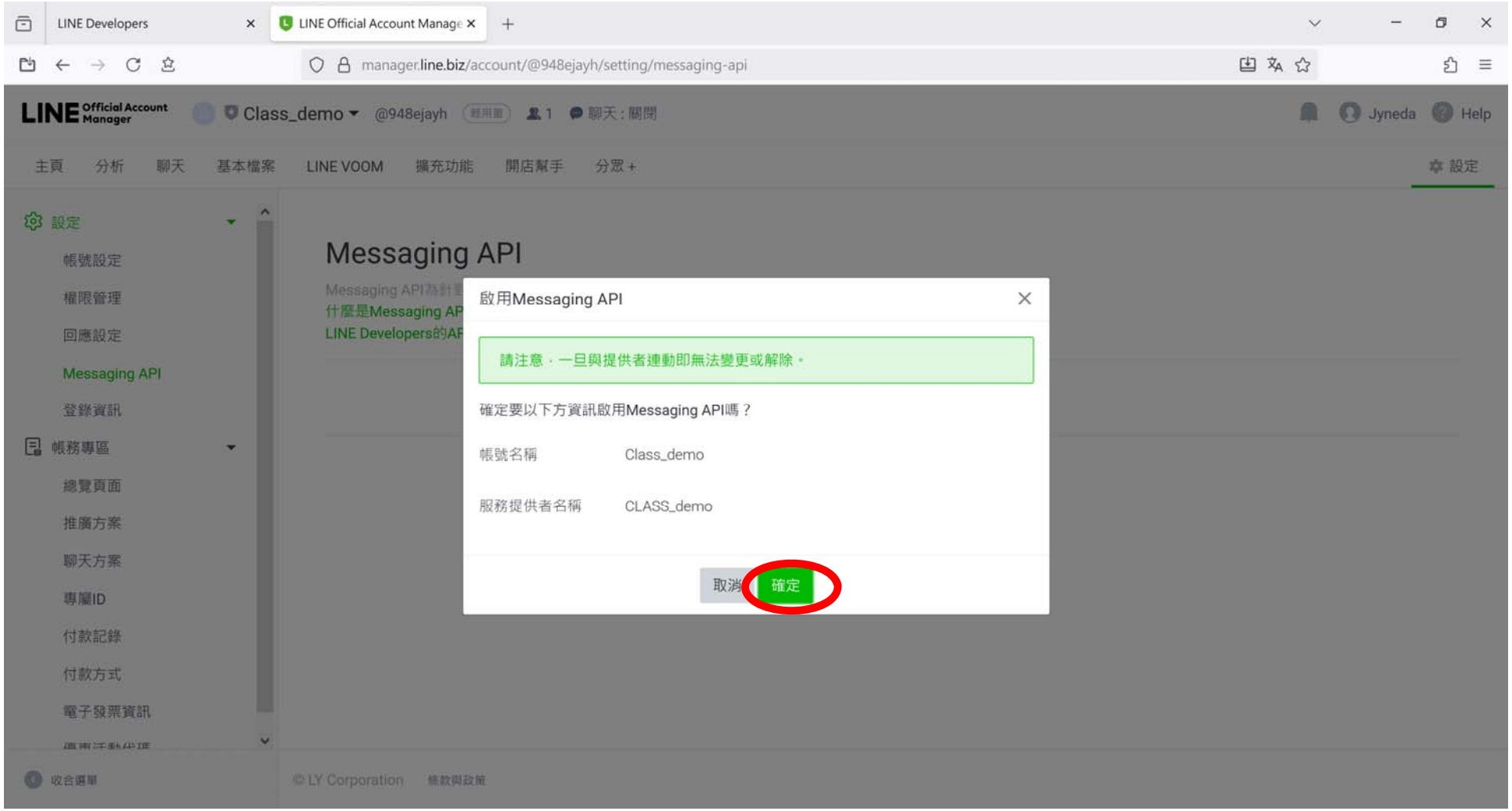
LINE Developers
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聊天方案
專屬ID
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Messaging API
啟用Messaging API
請注意，一旦與提供者連動即無法變更或解除。
確定要以下方資訊啟用Messaging API嗎？
帳號名稱 Class_demo
服務提供者名稱 CLASS_demo
取消
確定
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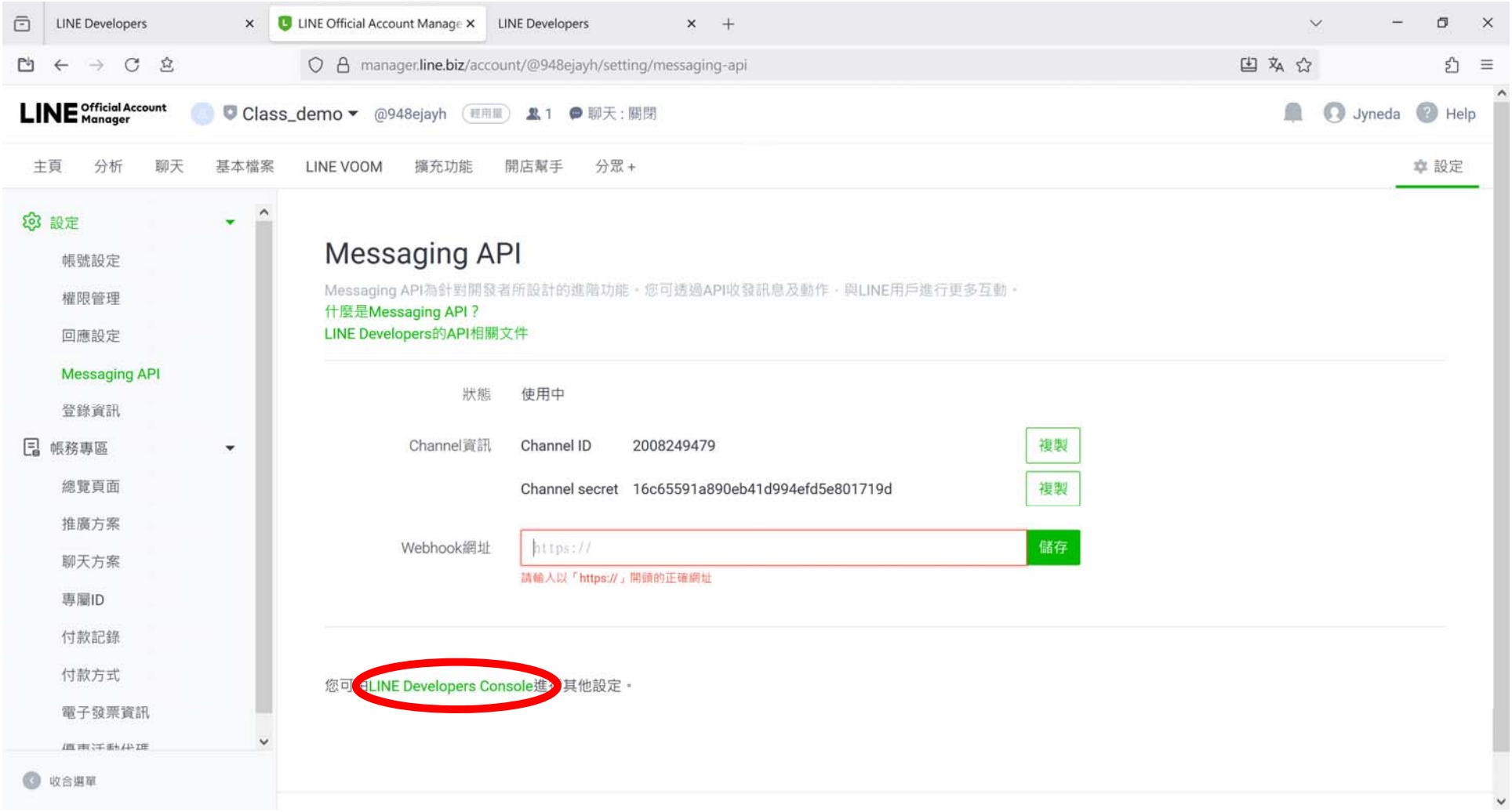
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LINE Developers的API相關文件
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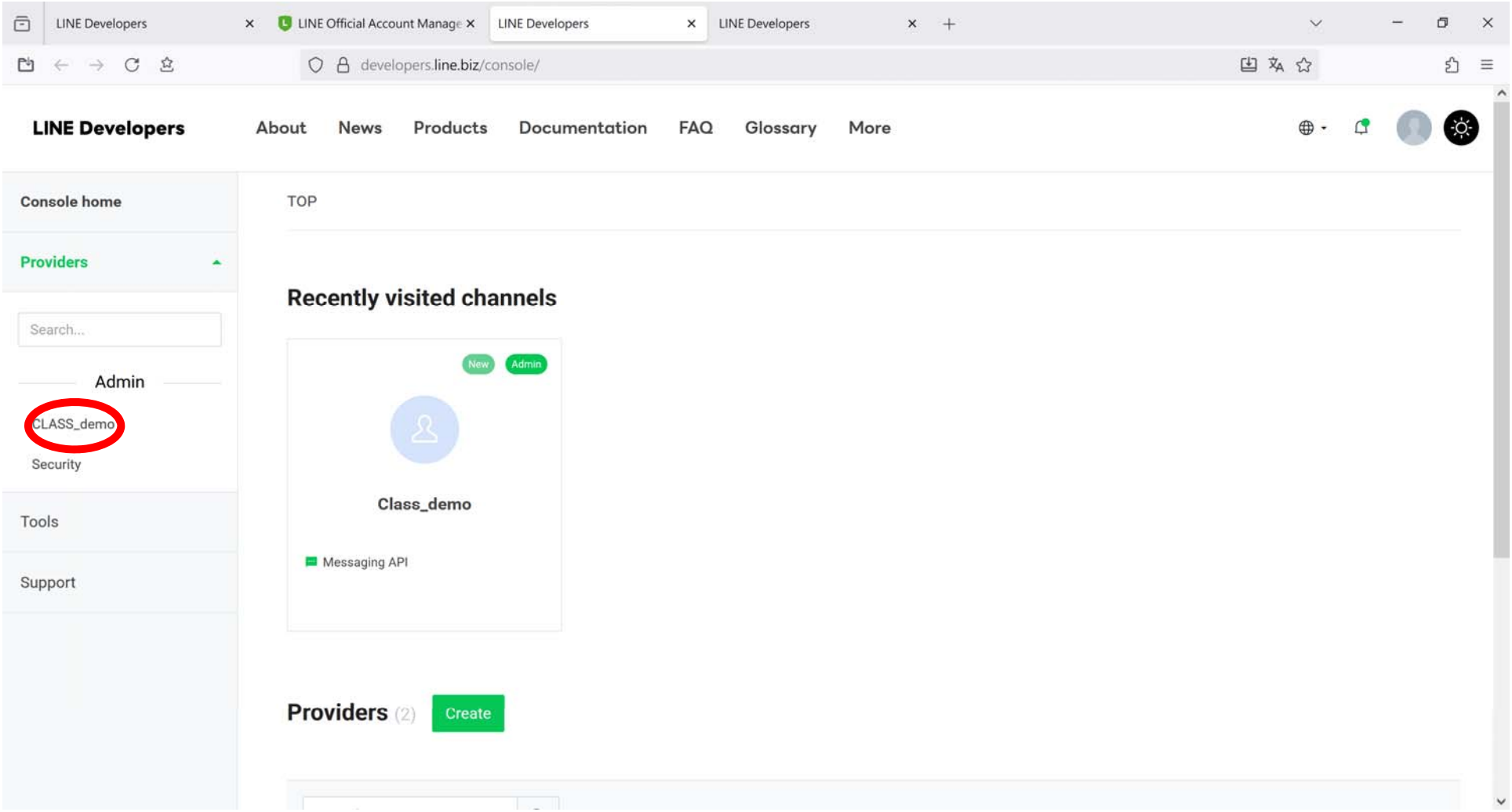
使用中
Channel資訊
Channel ID
2008249479
複製
Channel secret
16c65591a890eb41d994efd5e801719d
複製
Webhook網址
https://
儲存
請輸入以「https://」開頭的正確網址
您可在LINE Developers Console進行其他設定。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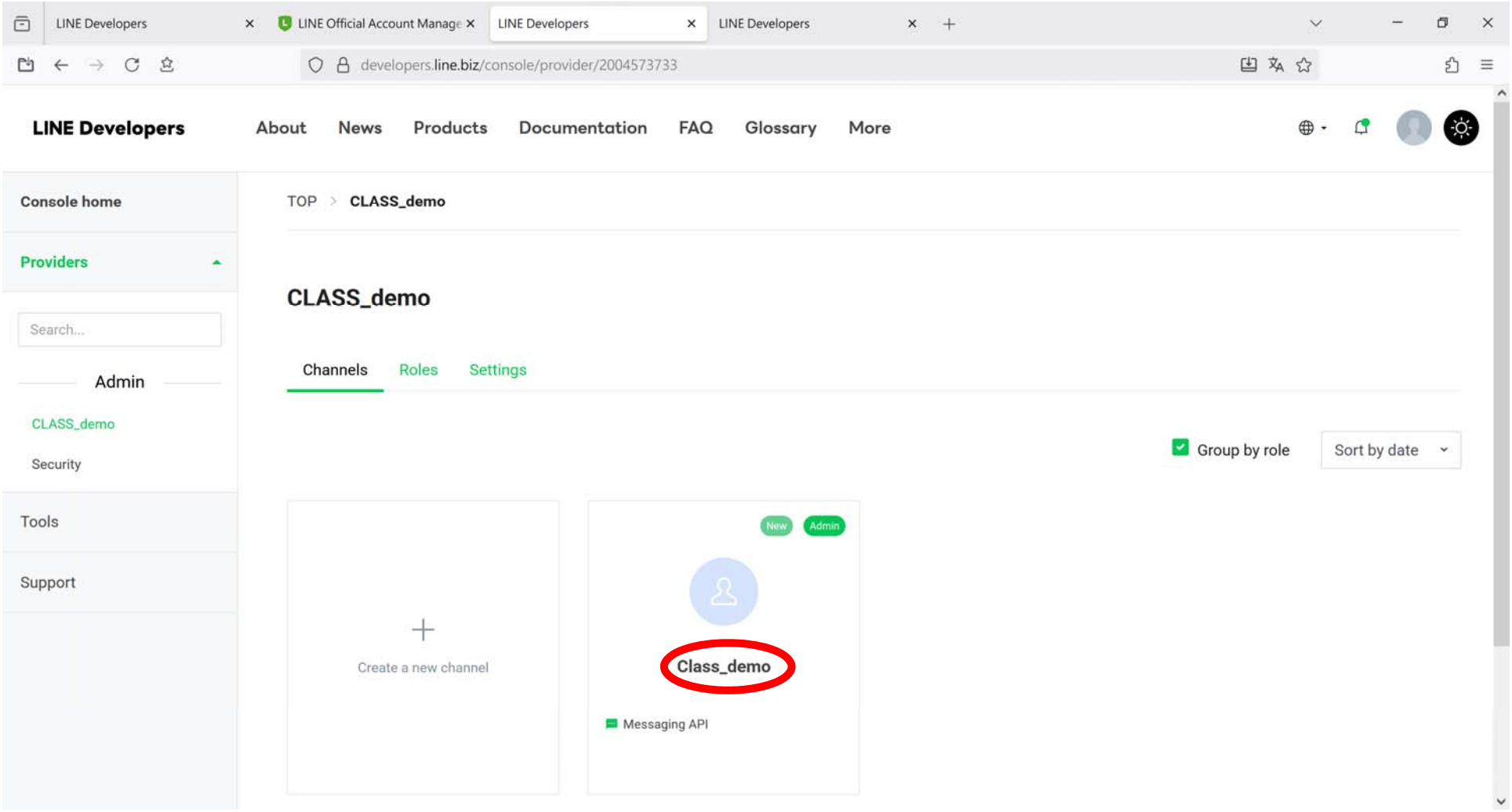
Class_demo
Messaging API
Providers (2)
Create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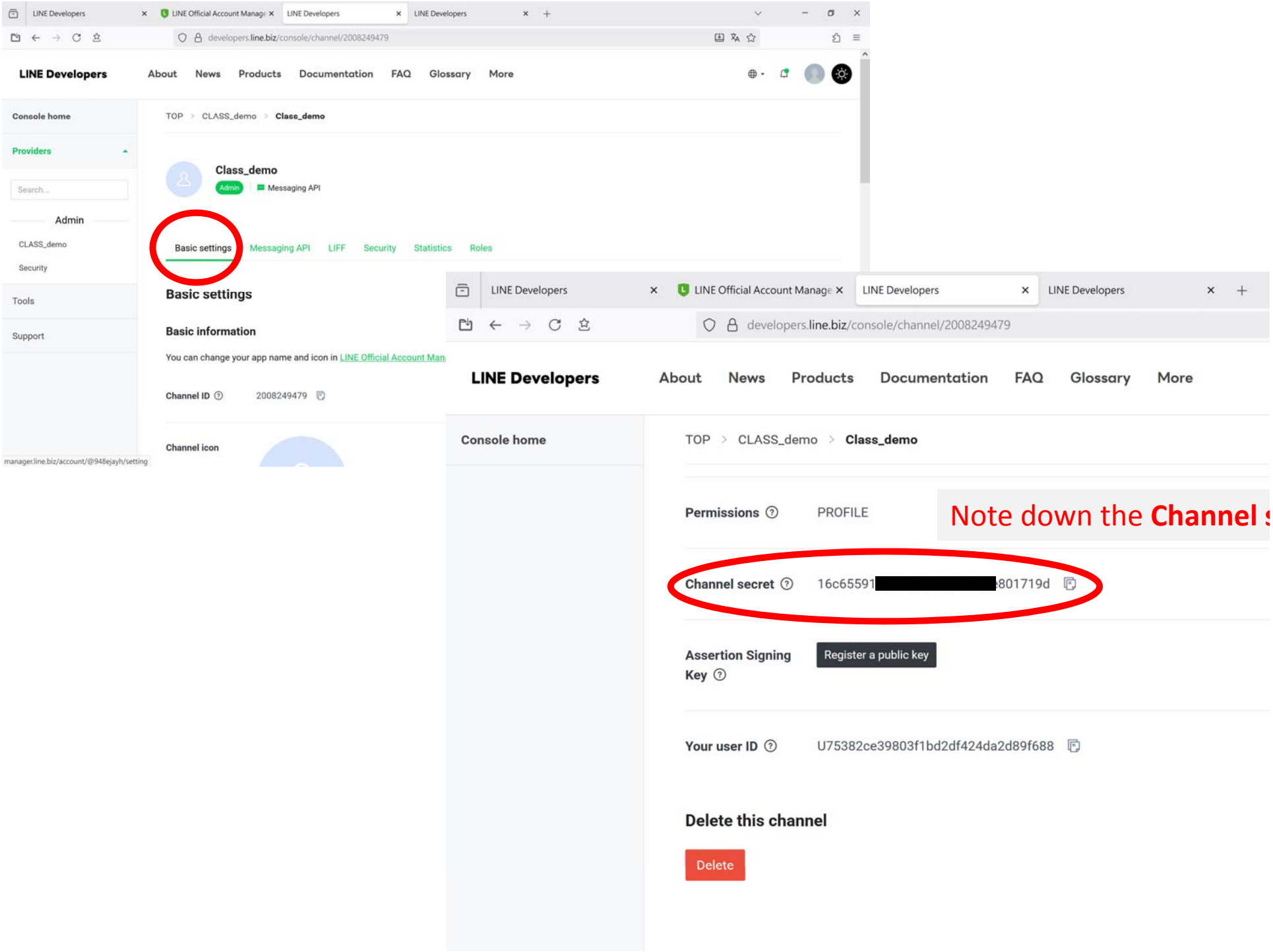
CLASS_demo
CLASS_demo
Channels
Roles
Settings
Group by role
Sort by date
Create a new channel
New
Admin
Class_demo
Messaging API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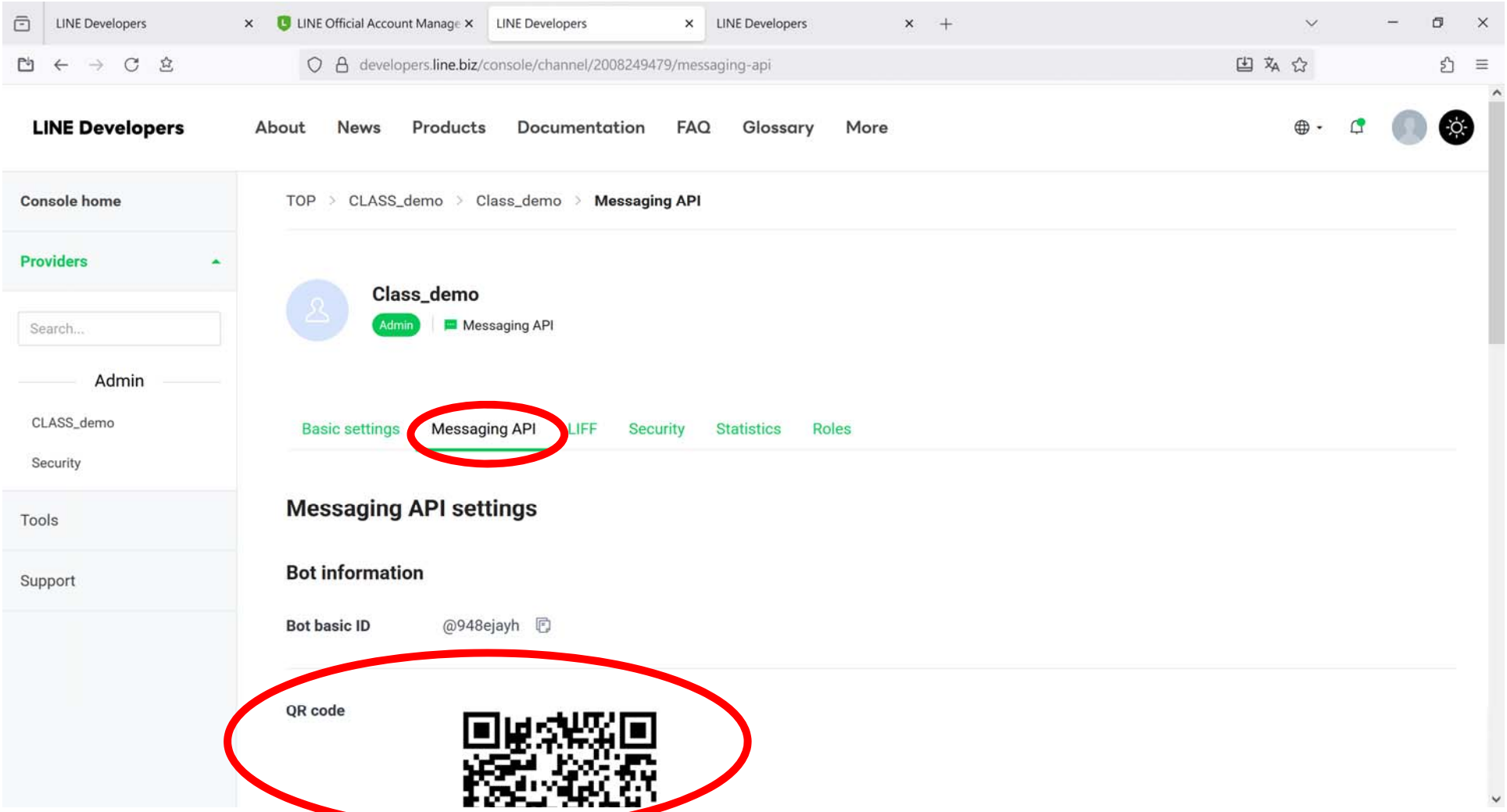
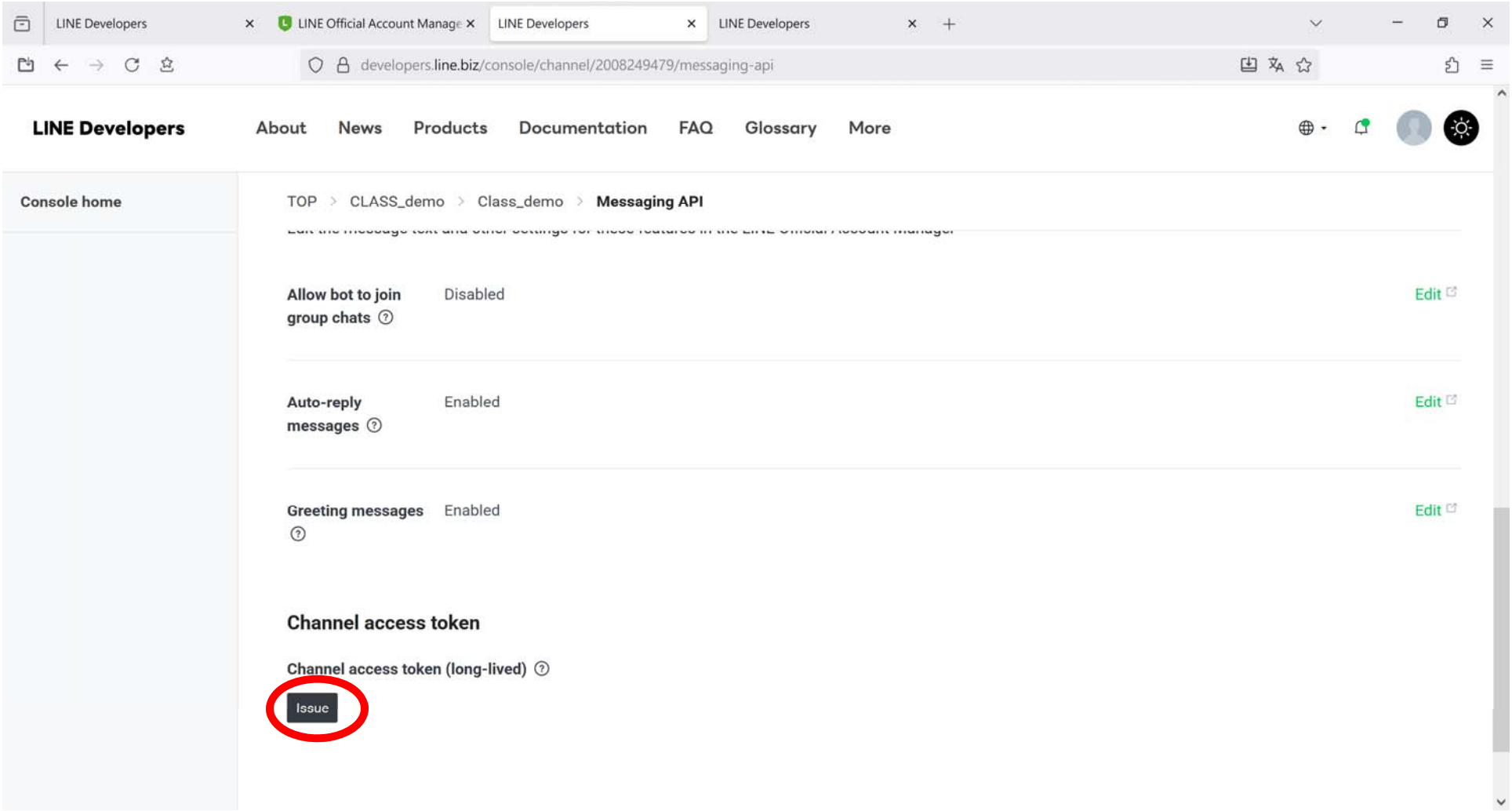
Messaging API
LIFF
Security
Statistics
Roles
Basic settings
Basic information
You can change your app name and icon in LINE Official Account Mana
Channel ID
2008249479
Channel icon
manager.line.biz/account/@948ejayh/setting
developers.line.biz/console/channel/2008249479
TOP > CLASS_demo > Class_demo
Permissions
PROFILE
Note down the Channel s
Channel secret
16c65591[redacted]801719d
Assertion Signing Key
Register a public key
Your user ID
U75382ce39803f1bd2df424da2d89f688
Delete this channel
Delete



The LineBot QR code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developers.line.biz/console/channel/2008249479/messaging-api
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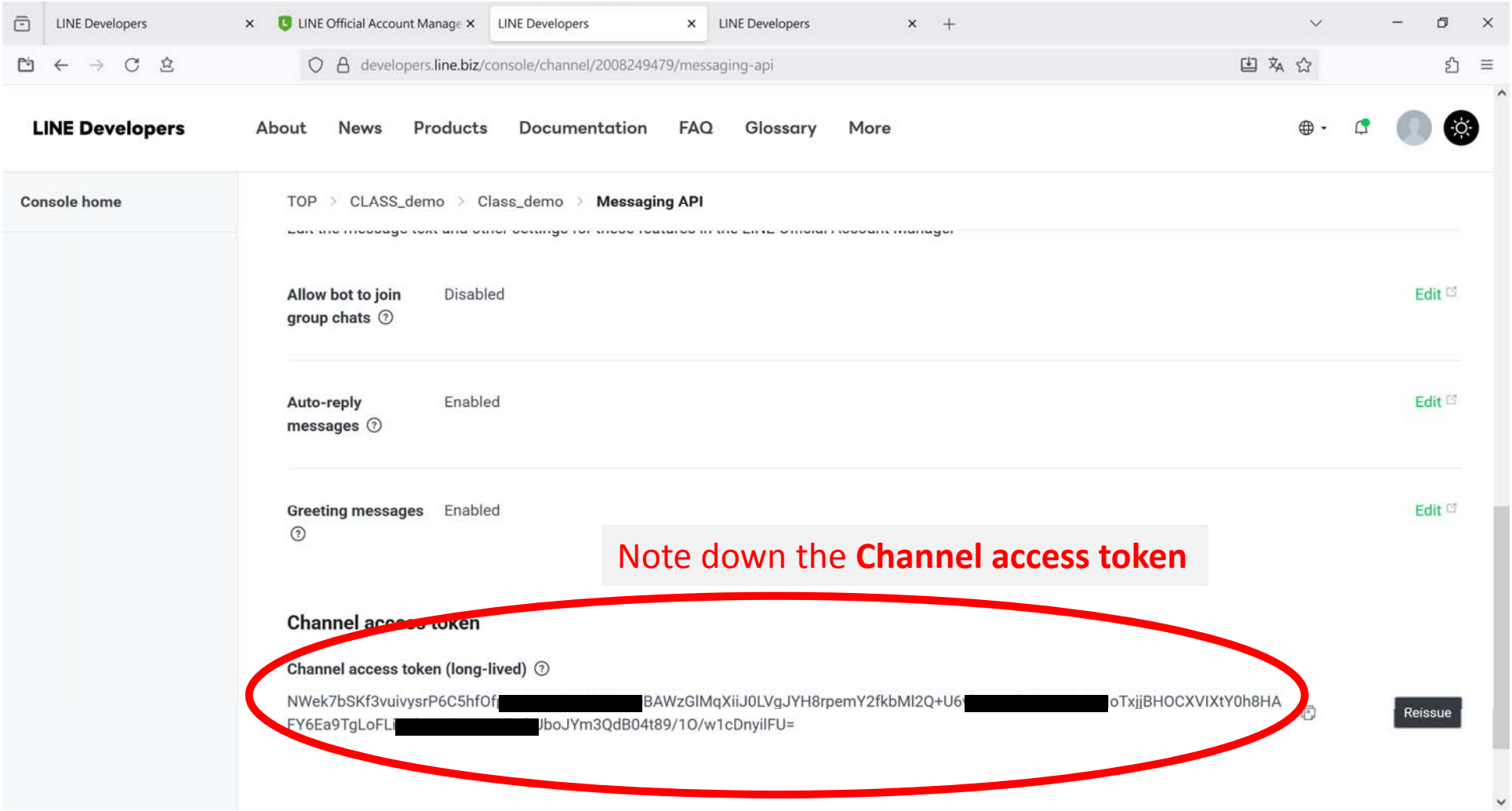
TOP > CLASS_demo > Class_demo > Messaging API
Allow bot to join group chats
Disabled
Edit
Auto-reply messages
Enabled
Edit
Greeting messages
Enabled
Edit
Channel access token
Channel access token (long-lived)
Issue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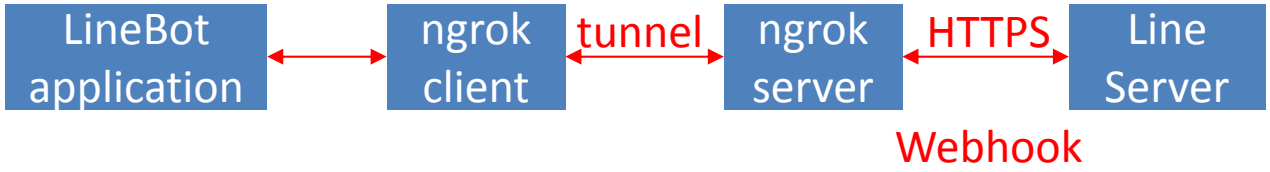
Allow bot to join group chats
Disabled
Edit
Auto-reply messages
Enabled
Edit
Greeting messages
Enabled
Edit
Note down the Channel access token
Channel access token
Channel access token (long-lived)
NWek7bSKf3vuivysrP6C5hfOf[redacted]BAWzGlMqXiiJ0LVgJYH8rpemY2fkbMl2Q+U6[redacted]oTxjjBHOCXVIXtY0h8HA
FY6Ea9TgLoFL[redacted]JboJYm3QdB04t89/1O/w1cDnyilFU=
Reissue

3. Verify Your LineBot Application

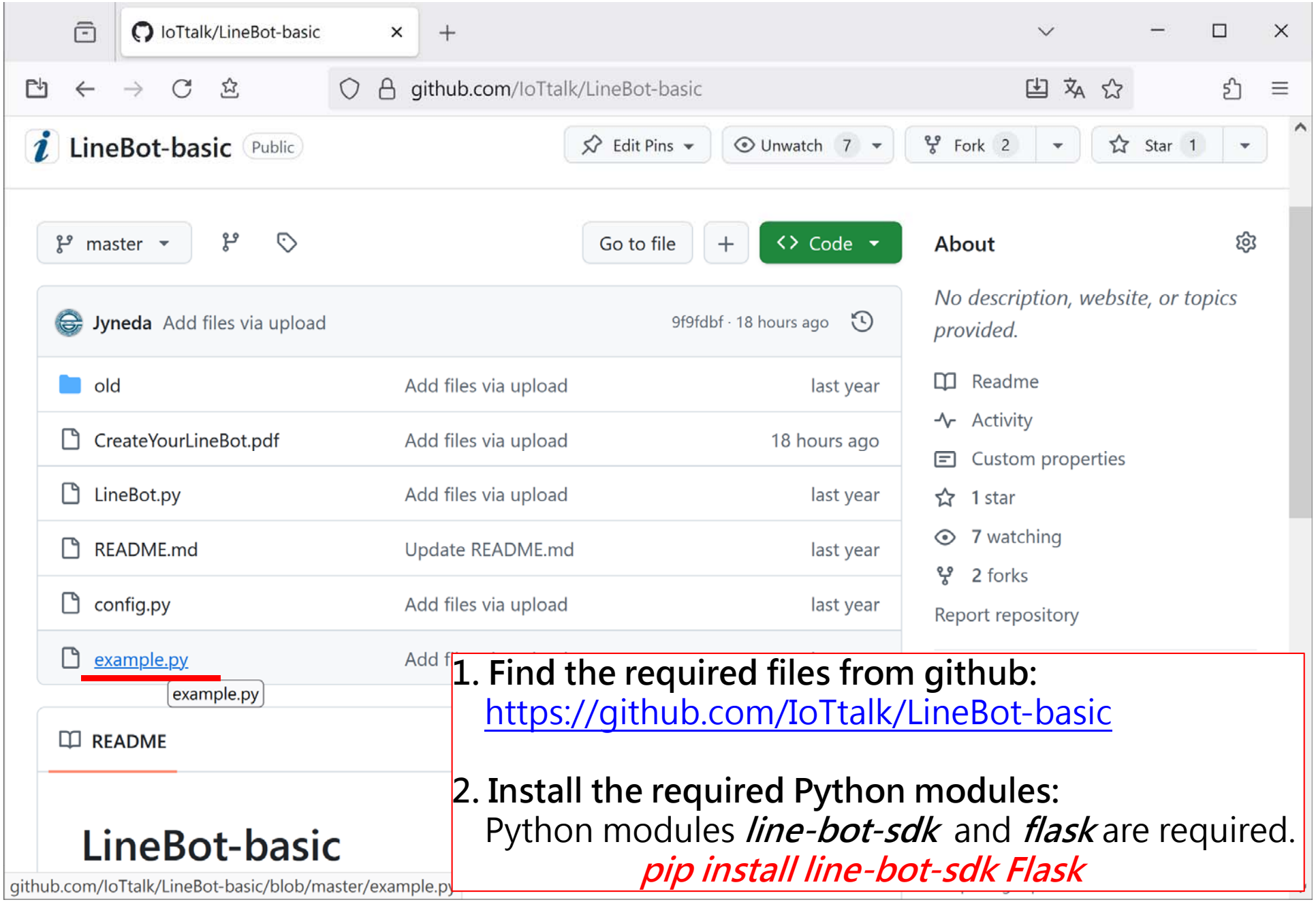
Webhook with Line Server

Verify LineBot Application through ngrok

Using ngrok instead of a https web server to webhook with Line server.



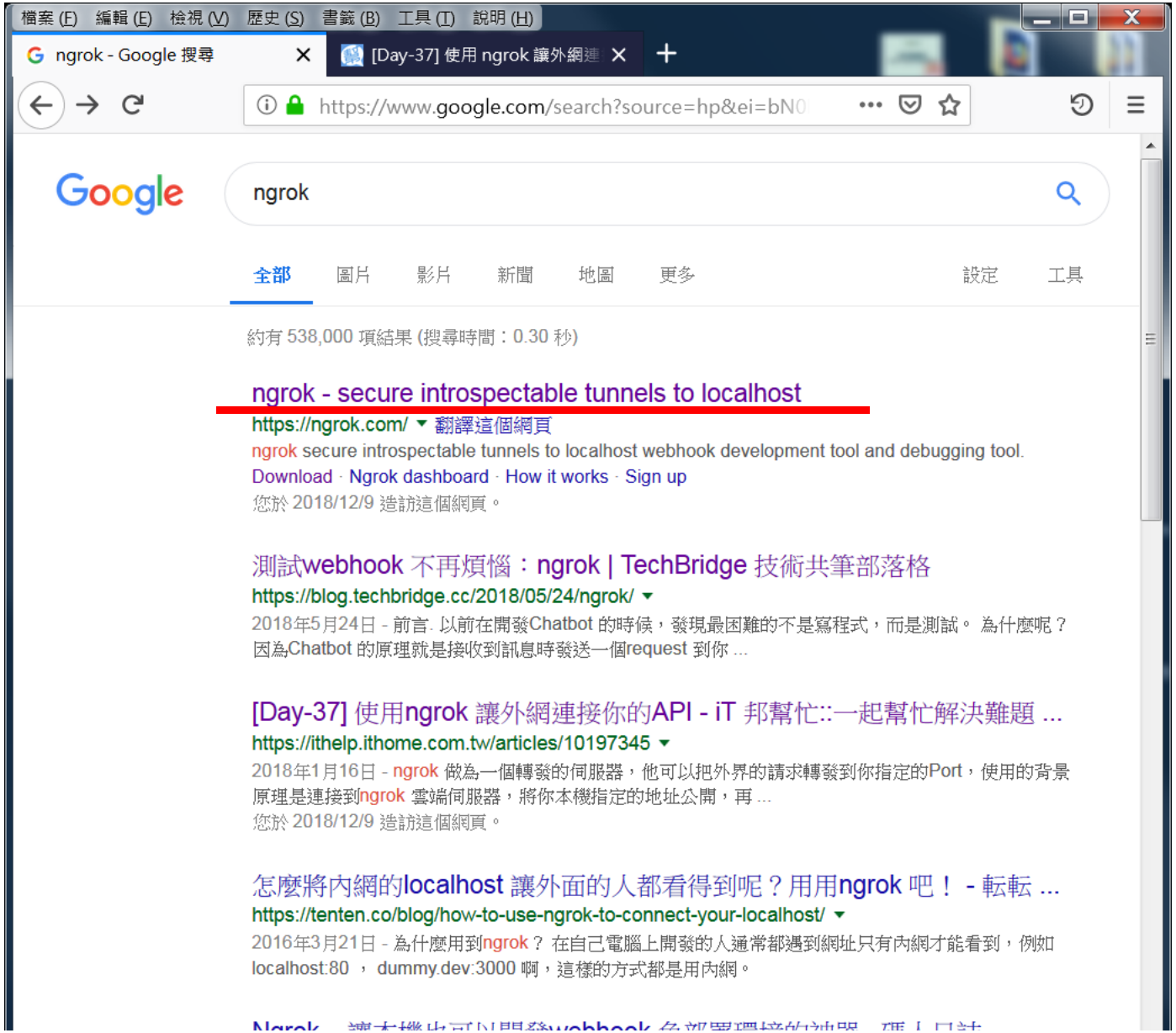
Prepare the required **files** and install required **Python modules**.



1. **Find the required files from github:**
   https://github.com/IoTtalk/LineBot-basic

2. **Install the required Python modules:**
   Python modules ***line-bot-sdk*** and ***flask*** are required.
   pip install line-bot-sdk Flask

Download the ngrok client.



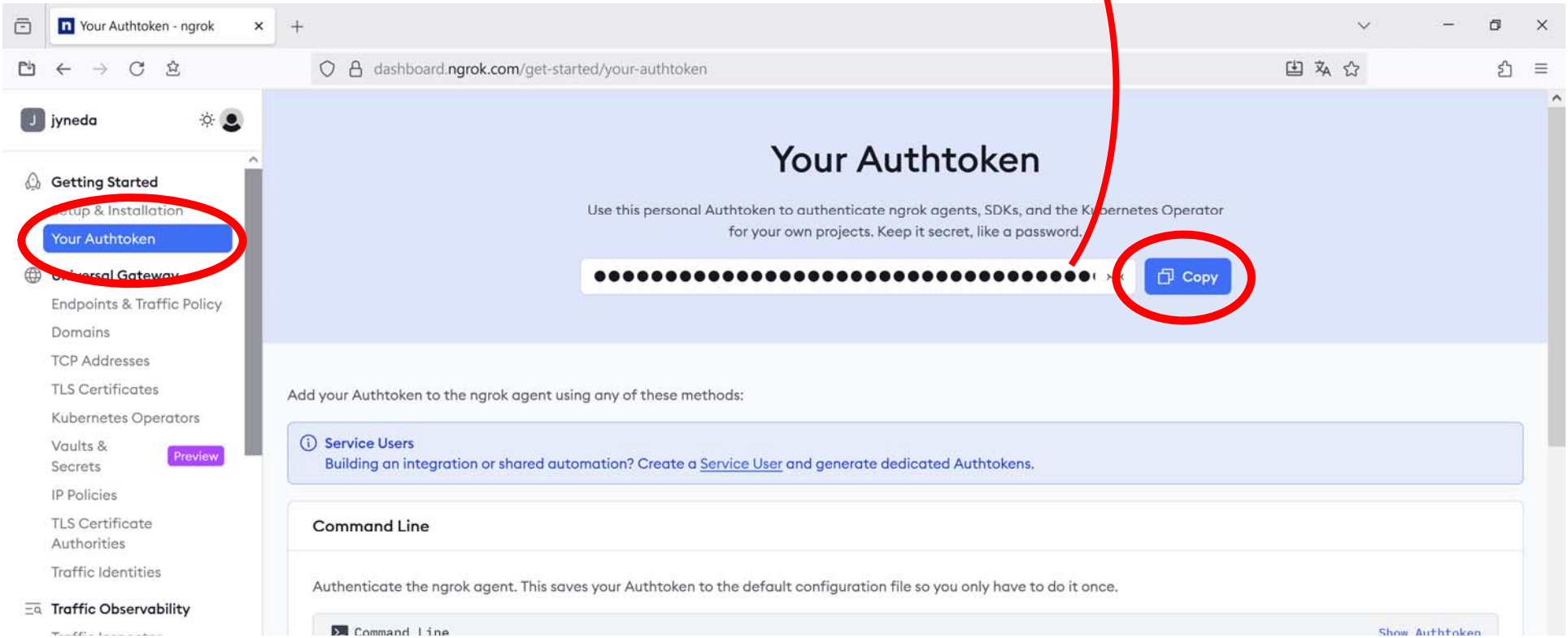
ngrok requires you to log in and add your Authtoken once before use.

Go to https://dashboard.ngrok.com/login

Then run:

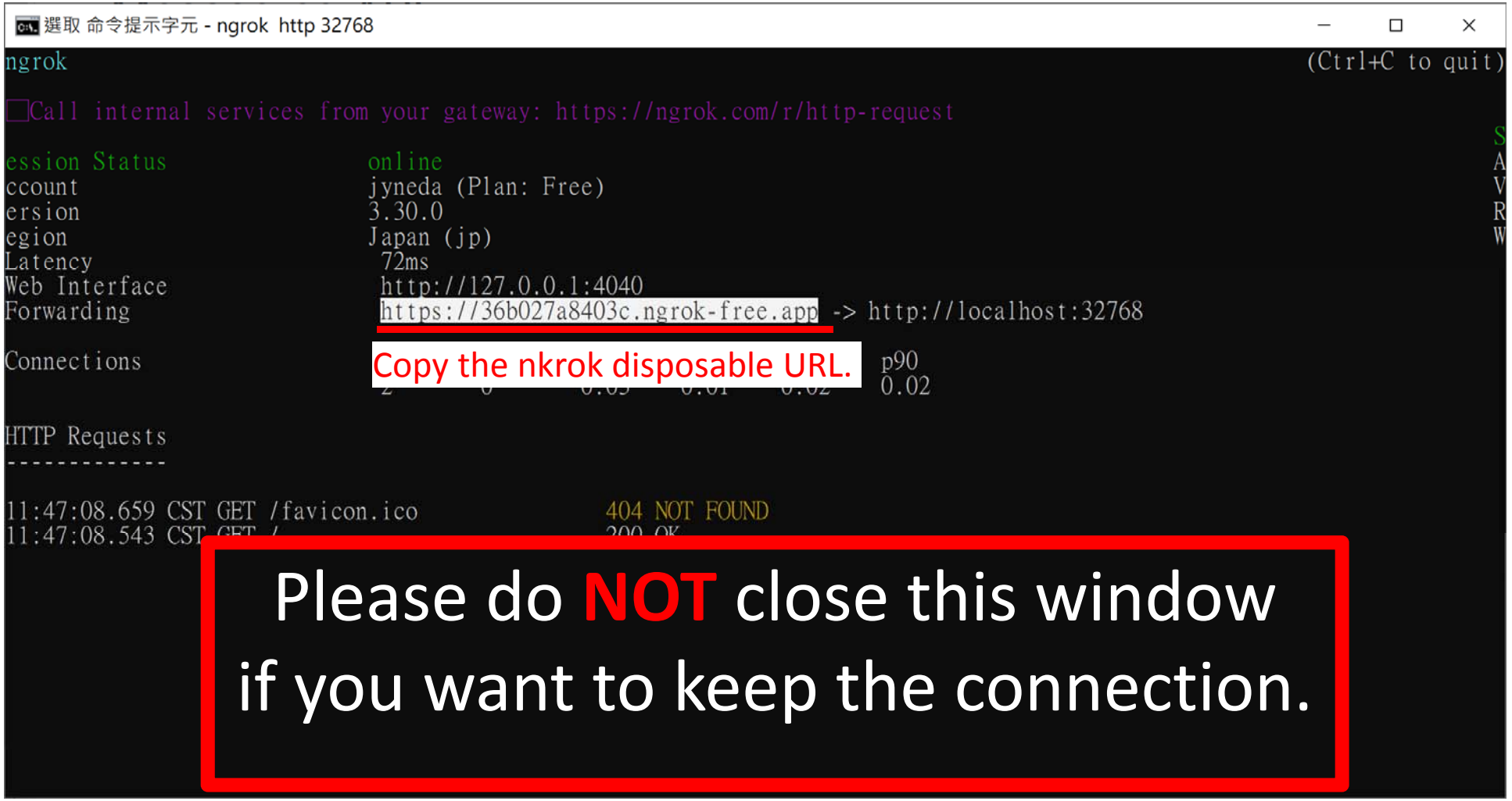
ngrok config add-authtoken <Authtoken>

This command saves the Authtoken to your computer.

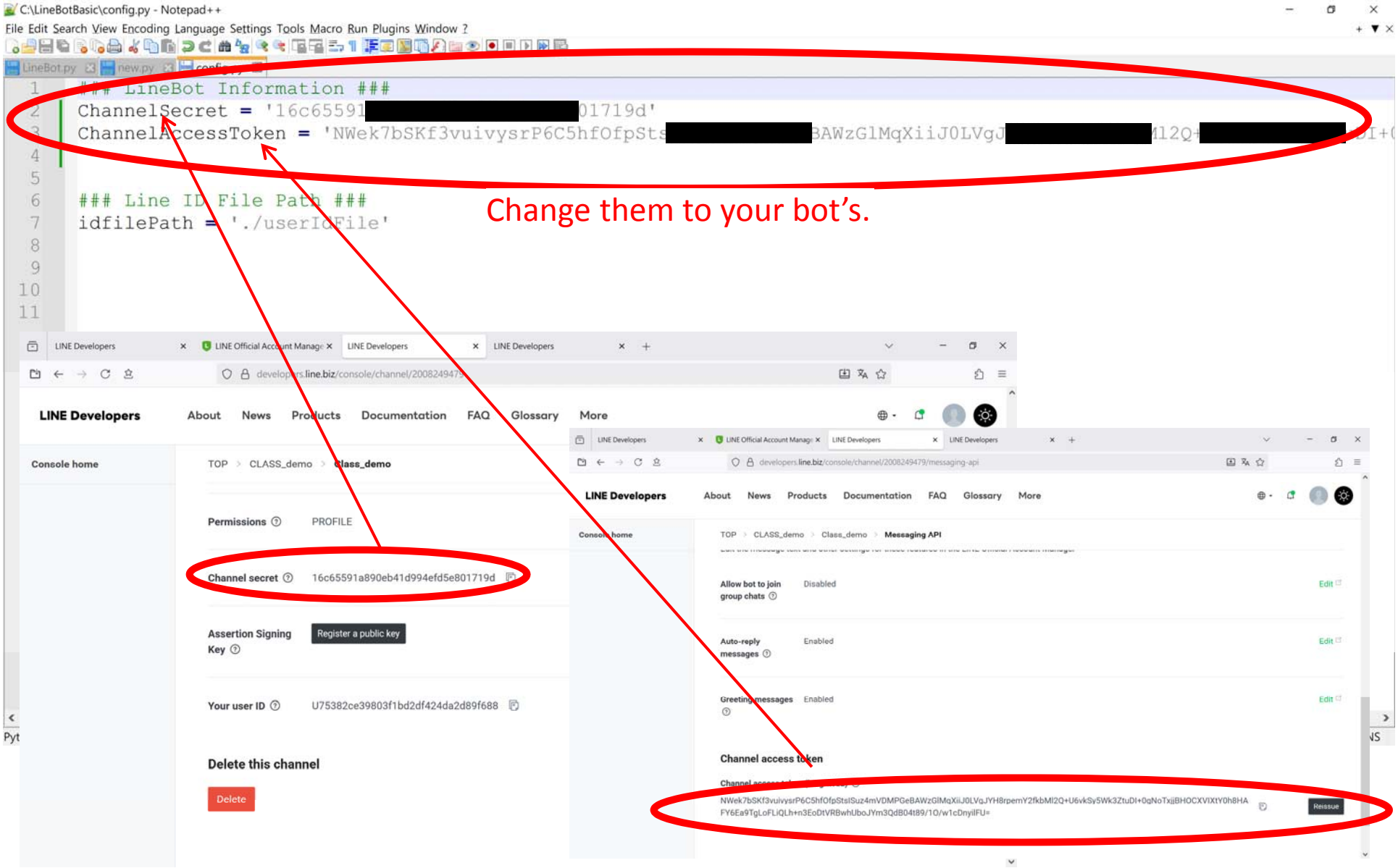


In the command line, use the cmd below to activate ngrok:

ngrok http 32768

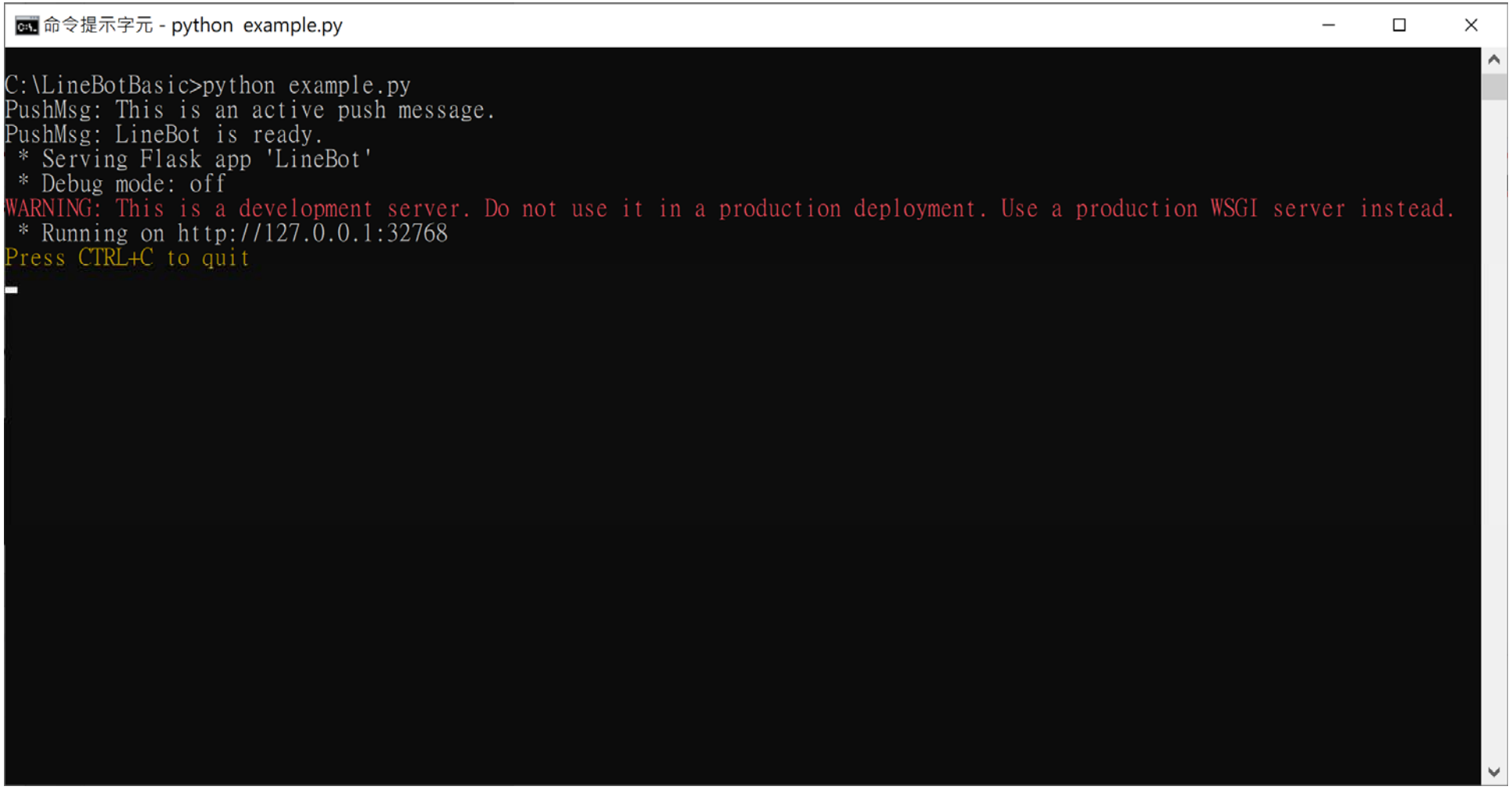


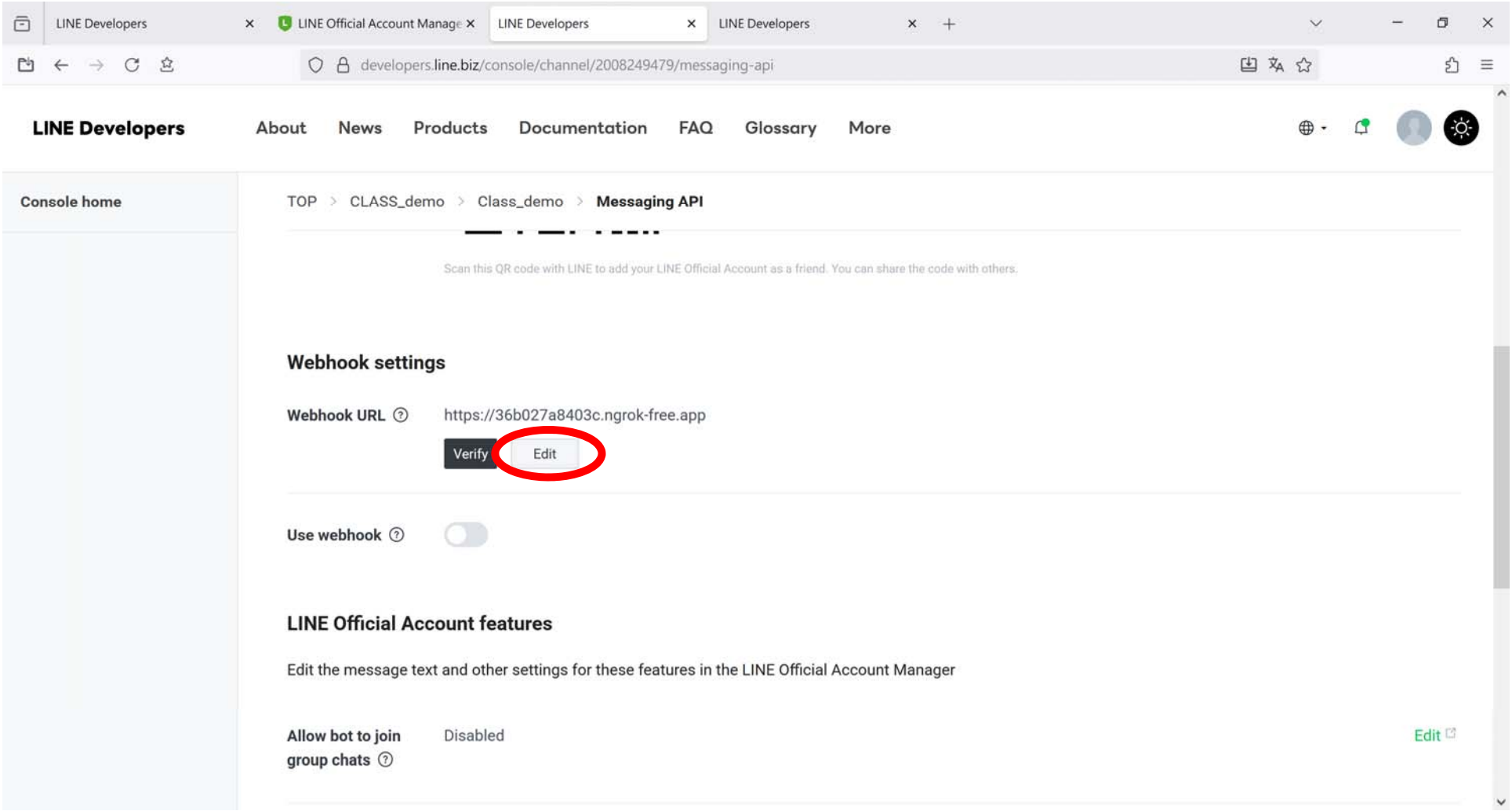
Edit the config.py to fill up the Channel secret and Channel access token of your LineBot.



Execute the **example.py** for the demonstration:

python example.py

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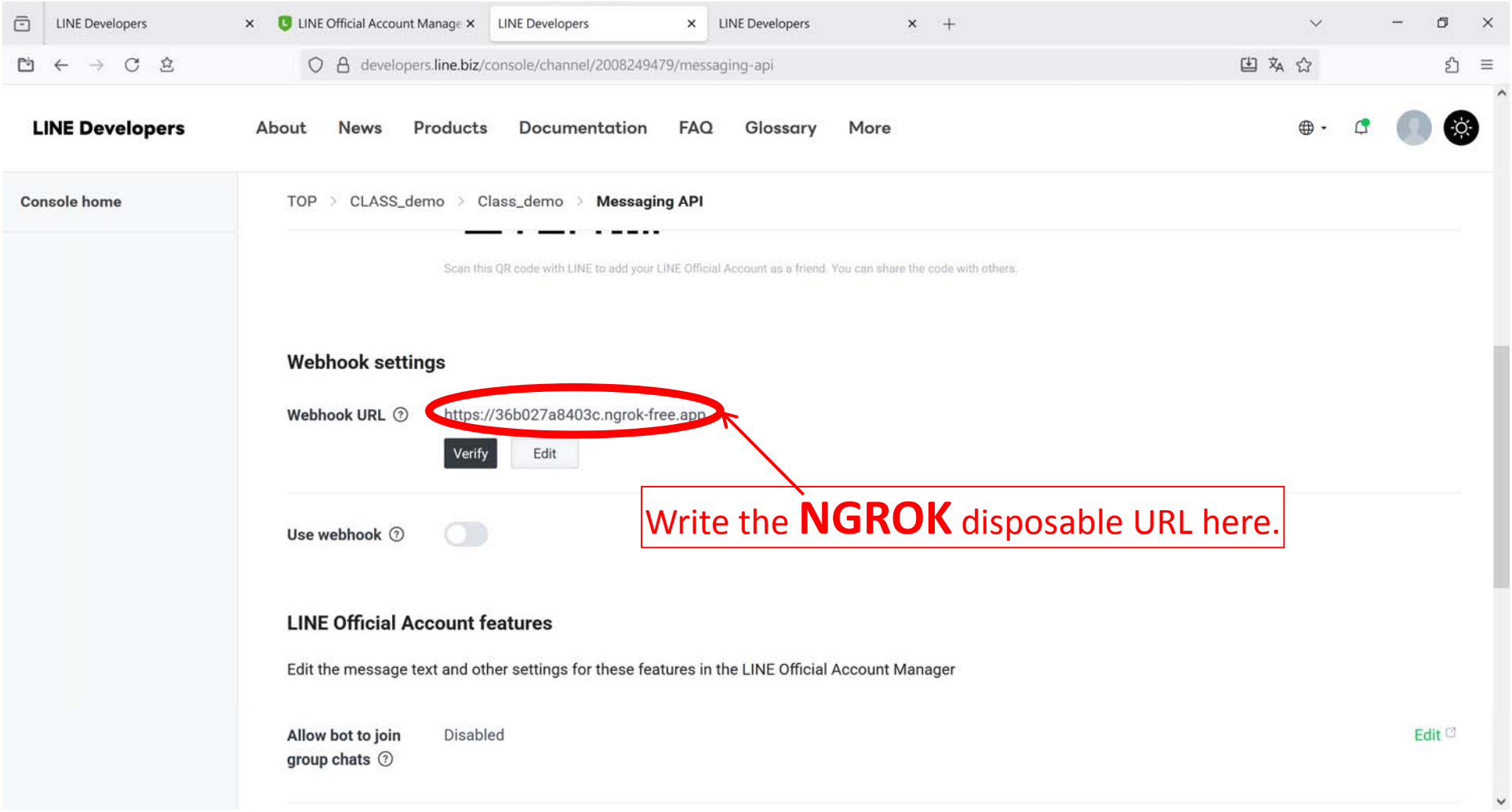
Webhook URL
https://36b027a8403c.ngrok-free.app
Verify
Edit
Use webhook
LINE Official Account features
Edit the message text and other settings for these features in the LINE Official Account Manager
Allow bot to join group chats
Disabled
Edit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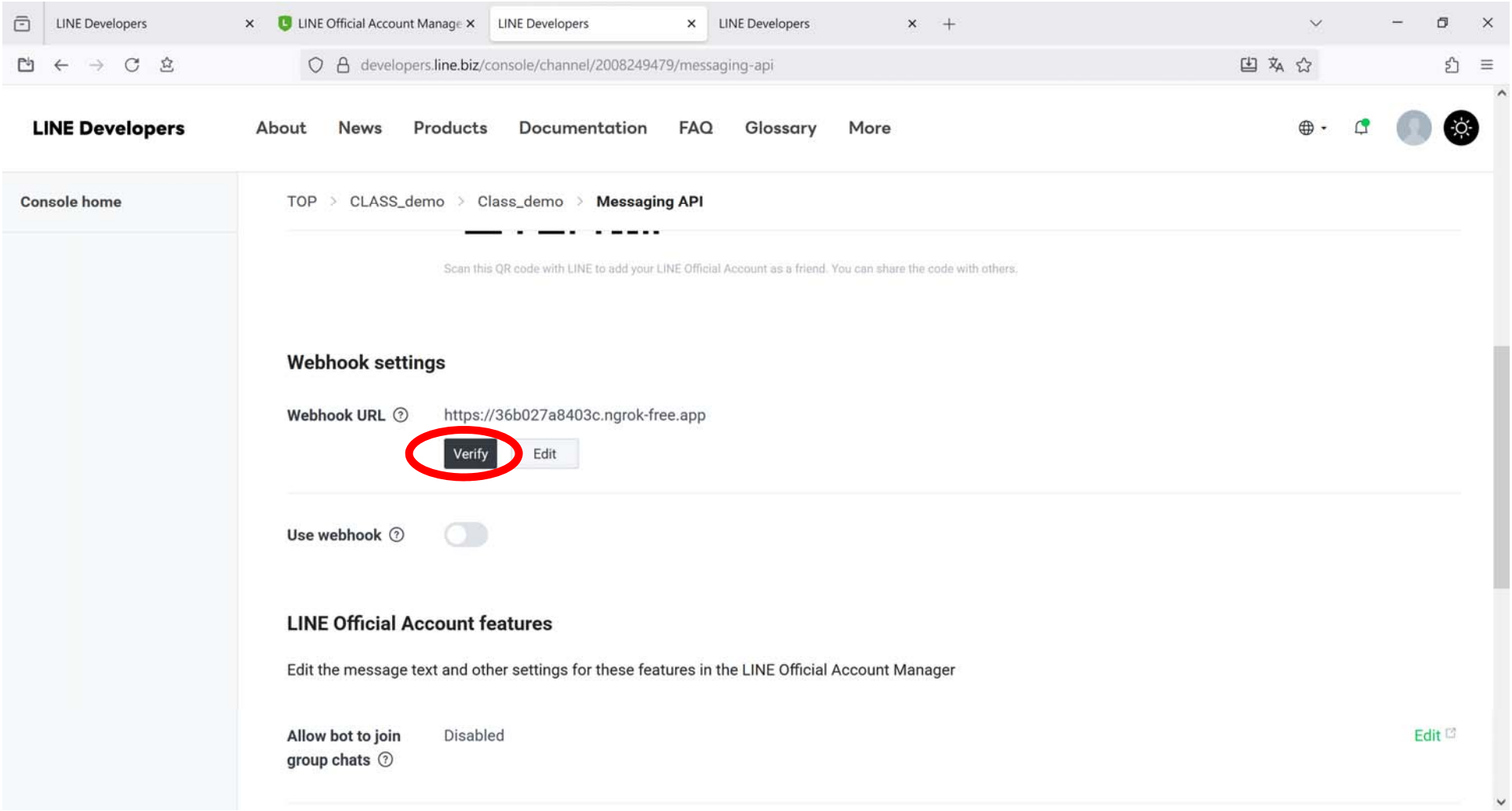
Webhook URL
https://36b027a8403c.ngrok-free.app
Verify
Edit
Use webhook
Write the NGROK disposable URL here.
LINE Official Account features
Edit the message text and other settings for these features in the LINE Official Account Manager
Allow bot to join group chats
Disabled
Edit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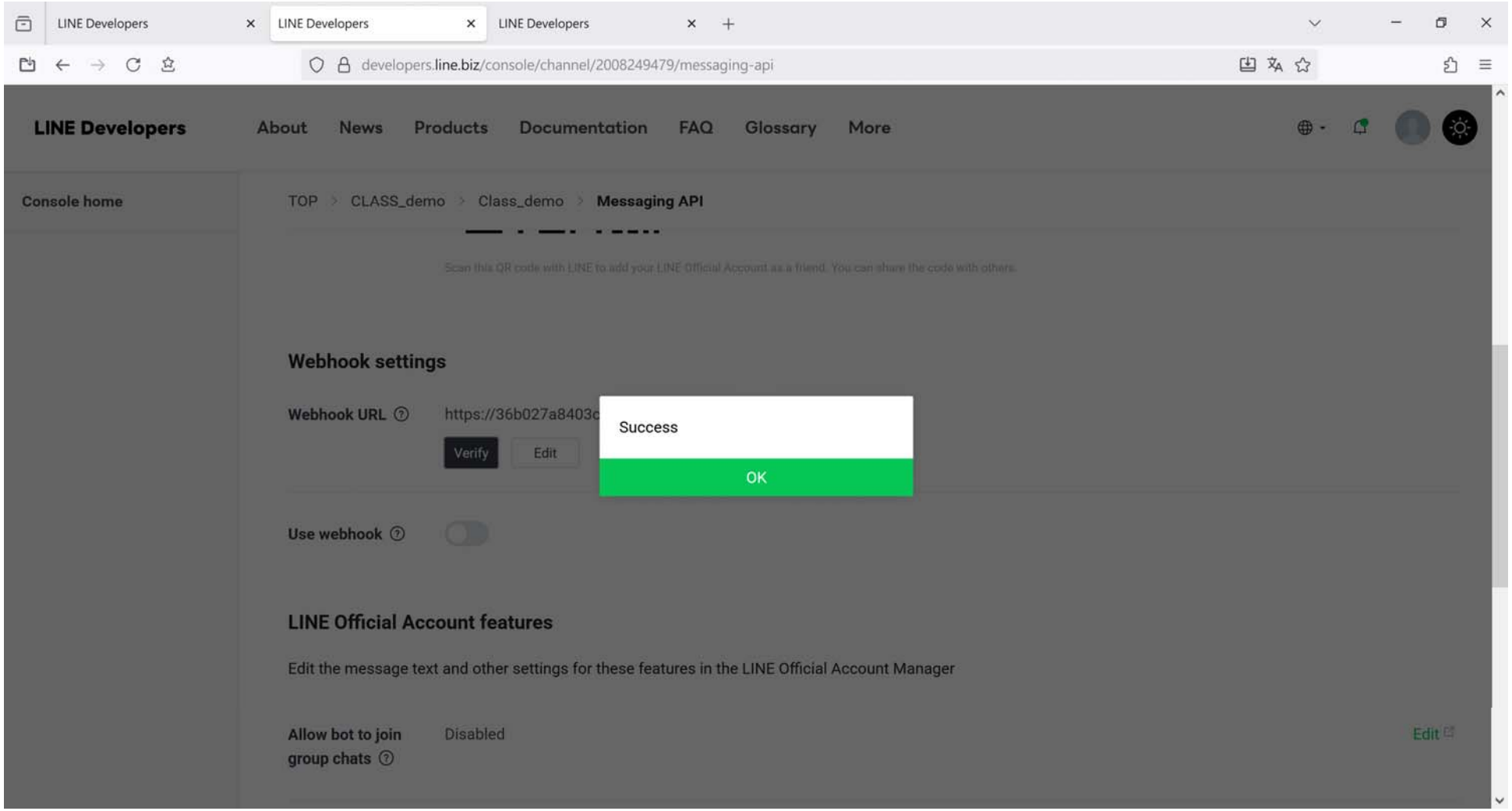
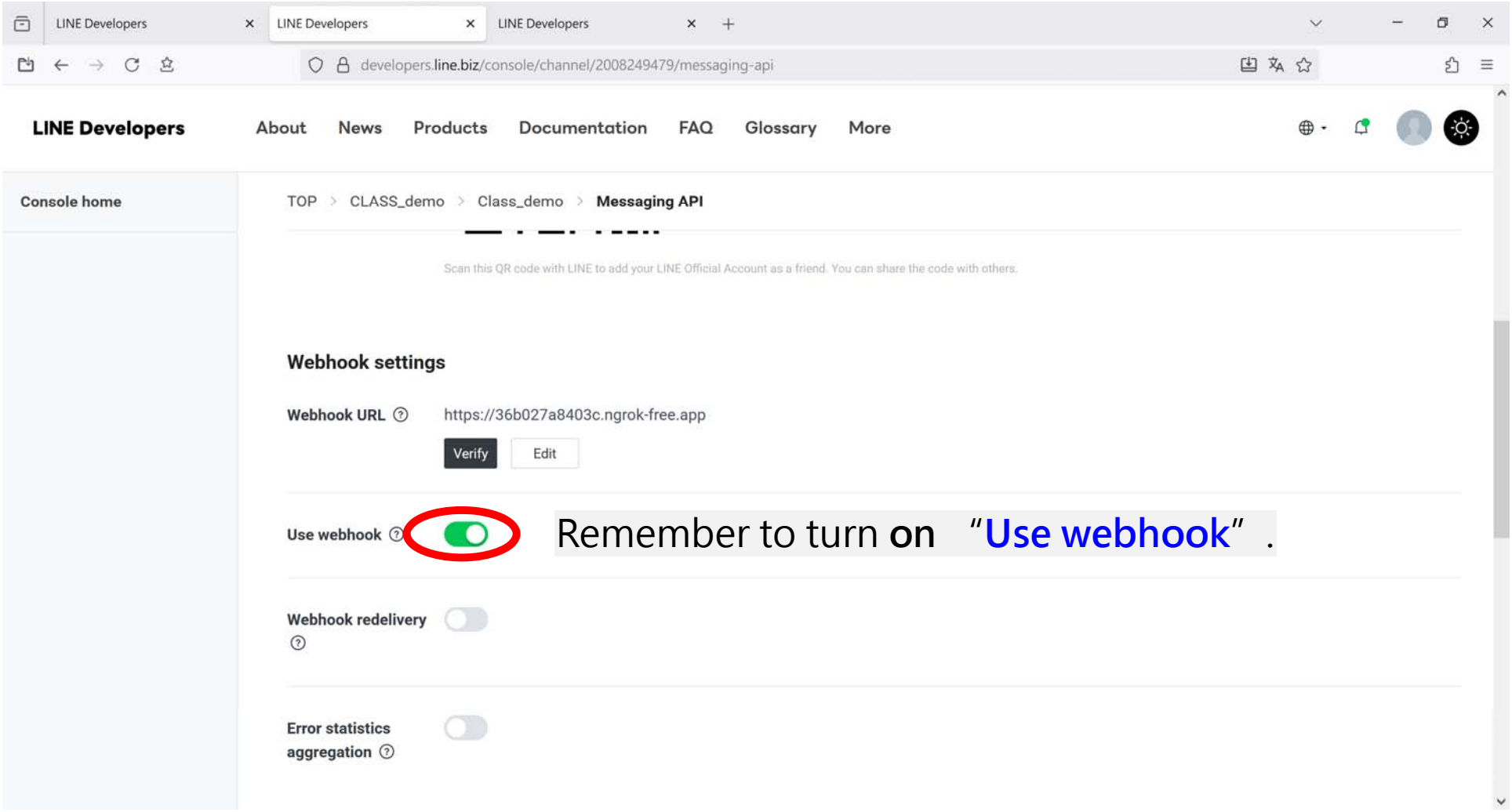
Verify
Edit
Use webhook
LINE Official Account features
Edit the message text and other settings for these features in the LINE Official Account Manager
Allow bot to join group chats
Disabled
Edit

Must be successfully verified by the Line server, otherwise it will not work.

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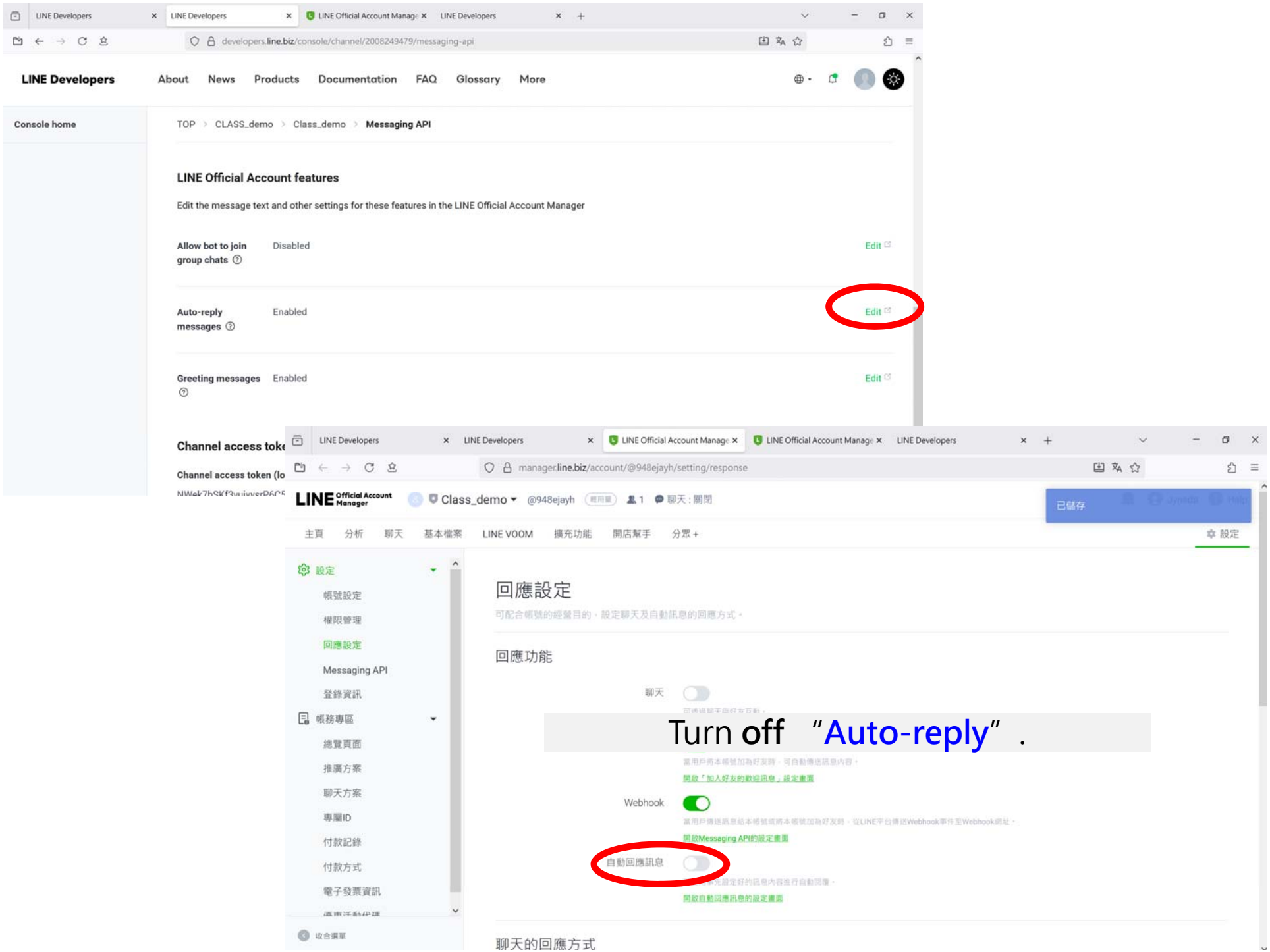
Webhook URL
https://36b027a8403c.ngrok-free.app
Verify
Edit
Use webhook
Remember to turn on "Use webhook".
Webhook redelivery
Error statistics aggregation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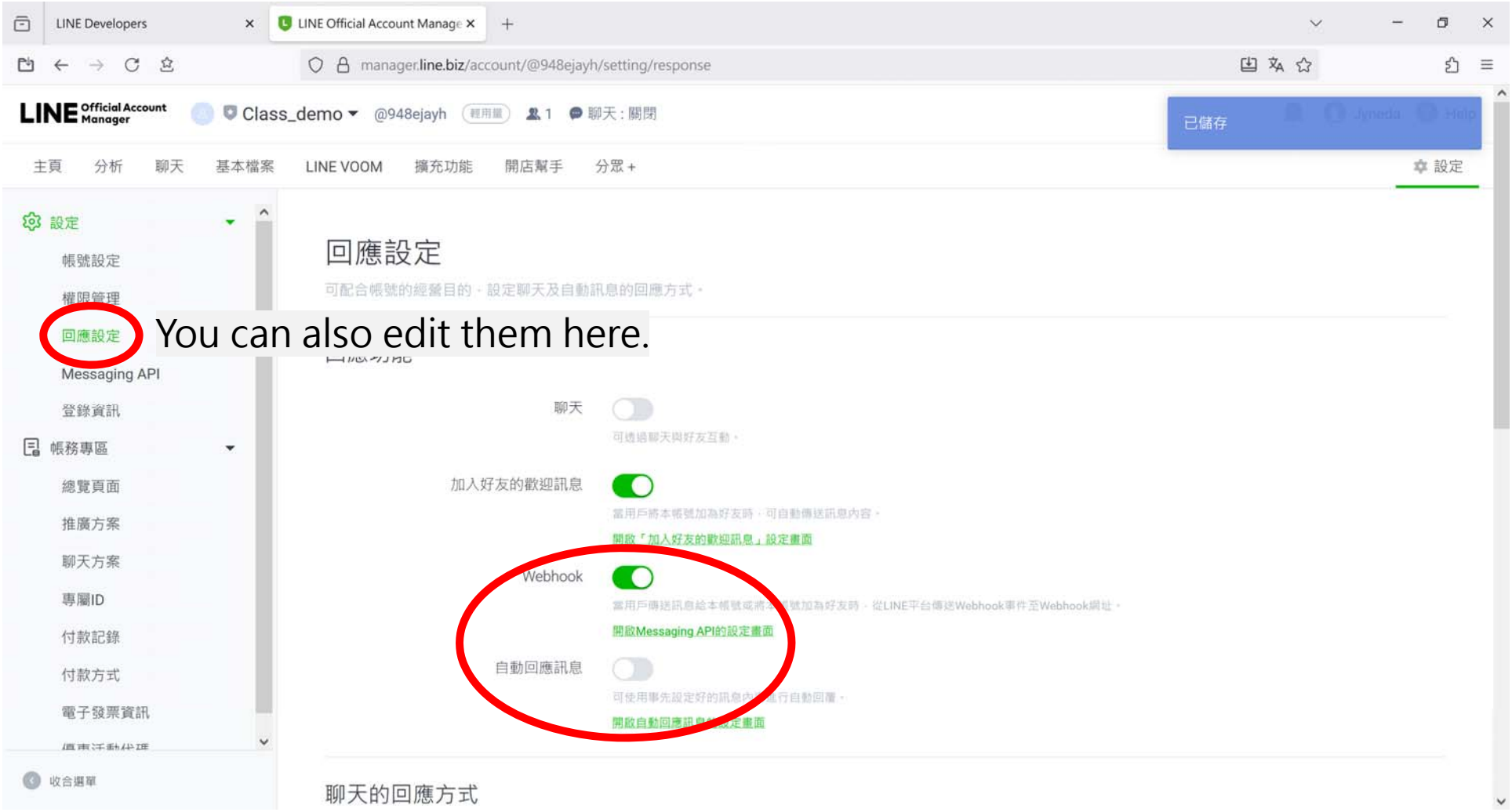
Edit the message text and other settings for these features in the LINE Official Account Manager
Allow bot to join group chats
Disabled
Edit
Auto-reply messages
Enabled
Edit
Greeting messages
Enabled
Edit
Channel access token
Channel access token (lo
LINE Official Account Manager
Class_demo
@948ejayh
聊天：關閉
已儲存
主頁
分析
聊天
基本檔案
LINE VOOM
擴充功能
開店幫手
分眾 +
設定
帳號設定
權限管理
回應設定
Messaging API
登錄資訊
帳務專區
總覽頁面
推廣方案
聊天方案
專屬ID
付款記錄
付款方式
電子發票資訊
回應設定
可配合帳號的經營目的，設定聊天及自動訊息的回應方式。
回應功能
聊天
Webhook
自動回應訊息
聊天的回應方式
Turn off “Auto-reply”.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manager.line.biz/account/@948ejayh/setting/response
LINE Official Account Manager
Class_demo
@948ejayh
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已儲存
主頁
分析
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基本檔案
LINE VOOM
擴充功能
開店幫手
分眾＋
設定
設定
帳號設定
權限管理
回應設定
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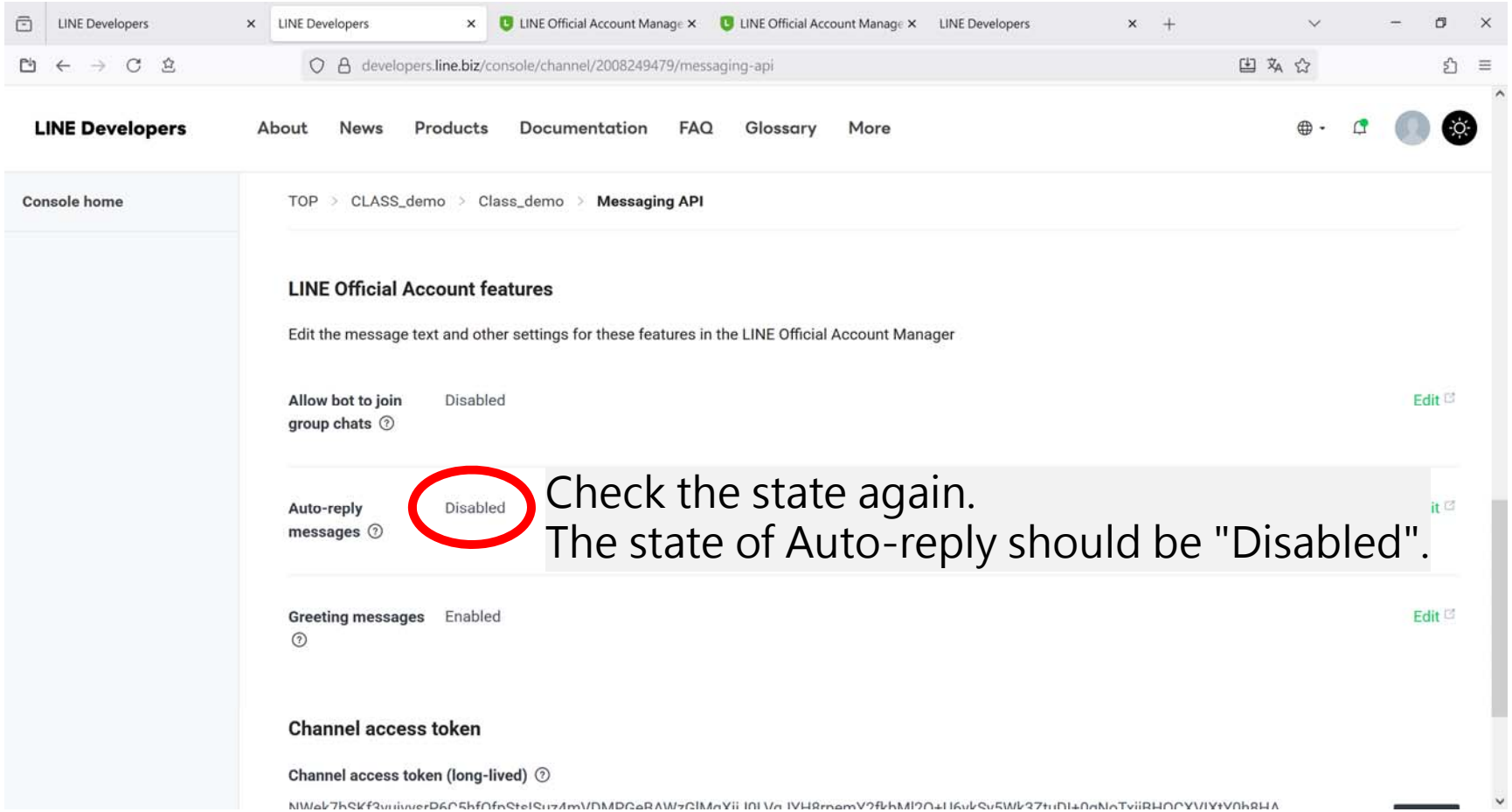
帳務專區
總覽頁面
推廣方案
聊天方案
專屬ID
付款記錄
付款方式
電子發票資訊
收合選單
回應設定
可配合帳號的經營目的，設定聊天及自動訊息的回應方式。
You can also edit them here.
聊天
可透過聊天與好友互動。
加入好友的歡迎訊息
當用戶將本帳號加為好友時，可自動傳送訊息內容。
開啟「加入好友的歡迎訊息」設定畫面
Webhook
開啟Messaging API的設定畫面
自動回應訊息
開啟自動回應訊息的設定畫面
聊天的回應方式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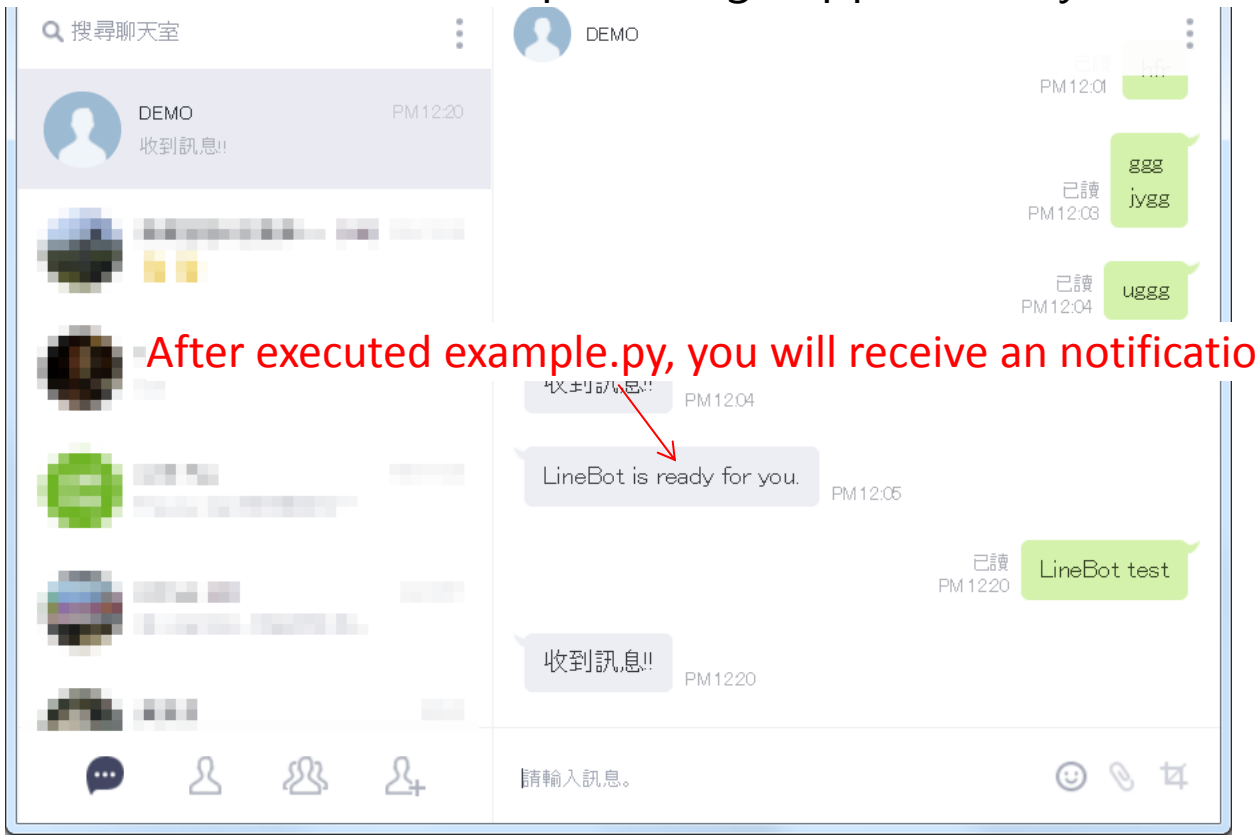
Allow bot to join group chats
Disabled
Edit
Auto-reply messages
Disabled
Check the state again.
The state of Auto-reply should be "Disabled".
Greeting messages
Enabled
Edit
Channel access token
Channel access token (long-lived)

Test your LineBot application:

Step 1. Send any message using the Line app in your smartphone.

Step 2. Check the console output of example.py to see whether it responds with the message you sent.

Step 3. If Step 2 works correctly, close example.py and restart it. Then check whether the startup message appears on your Line app.