

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



Webhook certificate requires a SSL connection.

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



Connect with {/LINE Developers}

[/ Start Console >](#)

[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](#)

[① 關於商用ID](#)

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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LINE Developers

developers.line.biz/console/?status=success

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Providers (1)

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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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Family Sites

LINE Developers

developers.line.biz/console/provider/2004573733

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ChannelsRolesSettings

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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TOP > 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)



建立LINE官方帳號

● 必填

登入資訊

用戶名稱 Jyneda [登出](#)

服務適用國家 / 地區 台灣 [已選用台灣方案](#)

帳號資訊

帳號名稱 ● 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 ●

LINE Developers

LINE Official Account Manage

manager.line.biz/account/@948ejayh/

LINE Official Account Manager

Class_demo @948ejayh

聊天: 關閉

Jyneda Help

主頁 分析 聊天 基本檔案 LINE VOOM 擴充功能 開店幫手 分眾 +

設定

群發訊息

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建立新訊息

廣告活動

漸進式訊息

自動回應訊息

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圖文訊息

進階影片訊息

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收合選單

Class_demo

@948ejayh

1

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

LINE Developers

LINE Official Account Manage

manager.line.biz/account/@905dzmca

LINE Official Account Manager

Class @905dzmca

輕用量

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收合選單

Class

1 @905dzmca

編輯

訊息

來建立傳送给好友的群發訊息吧。

建立新訊息

內容

來建立圖文訊息及優惠券吧。

建立內容

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

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顯示更多

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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

Class @905dzmca 輕用量 1 聊天: 關閉

Jyneda Help

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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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LINE Developers x LINE Official Account Manager x

manager.line.biz/account/@905dzmca/setting/messaging-api

LINE Official Account Manager

Class @905dzmca 總用數 1 聊天: 關閉

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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

LINE Developers

LINE Official Account Manage

manager.line.biz/account/@948ejayh/setting/messaging-api

LINE Official Account Manager

Class_demo @948ejayh 註冊 1 聊天: 關閉

Jyneda Help

主頁 分析 聊天 基本檔案 LINE VOOM 擴充功能 開店幫手 分眾 +

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Messaging API

Messaging API為針對LINE Developers的API

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 0/500

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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manager.line.biz/account/@948ejayh/setting/messaging-api

LINE Official Account Manager

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Messaging API

Messaging API為針對
什麼是Messaging API
LINE Developers的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

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LINE Official Account Manage

LINE Developers

manager.line.biz/account/@948ejayh/setting/messaging-api

LINE Official Account Manager

Class_demo

@948ejayh

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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	使用中
Channel資訊	<div>Channel ID2008249479複製</div> <div>Channel secret16c65591a890eb41d994efd5e801719d複製</div>
Webhook網址	<div>https://儲存</div> <p>請輸入以「https://」開頭的正確網址。</p>

您可[LINE Developers Console](#)進其他設定。

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New Admin



Class_demo

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CLASS_demo


Channels Roles Settings

☒ Group by role Sort by date ▾

+

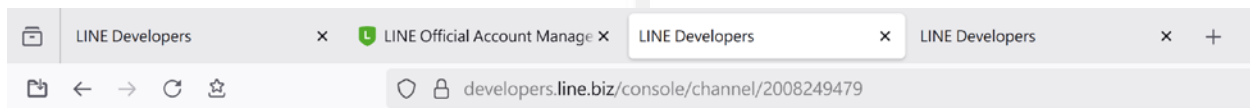
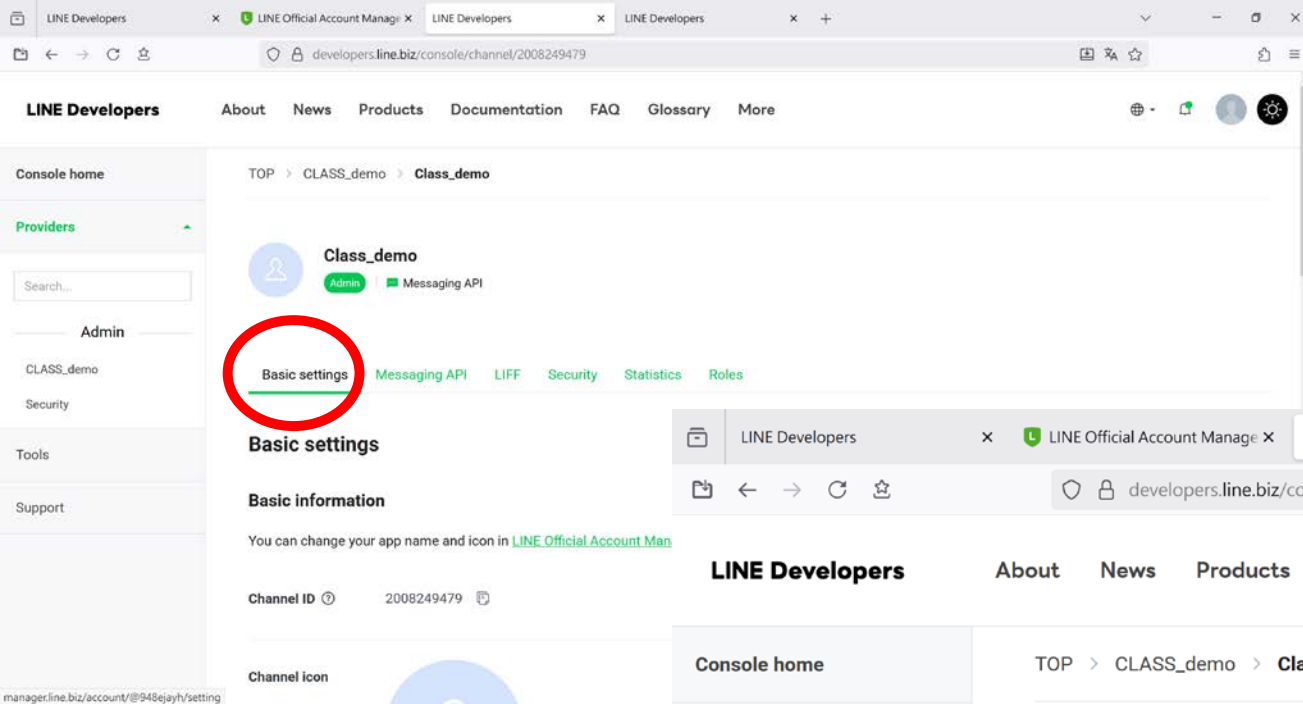
Create a new channel

New Admin

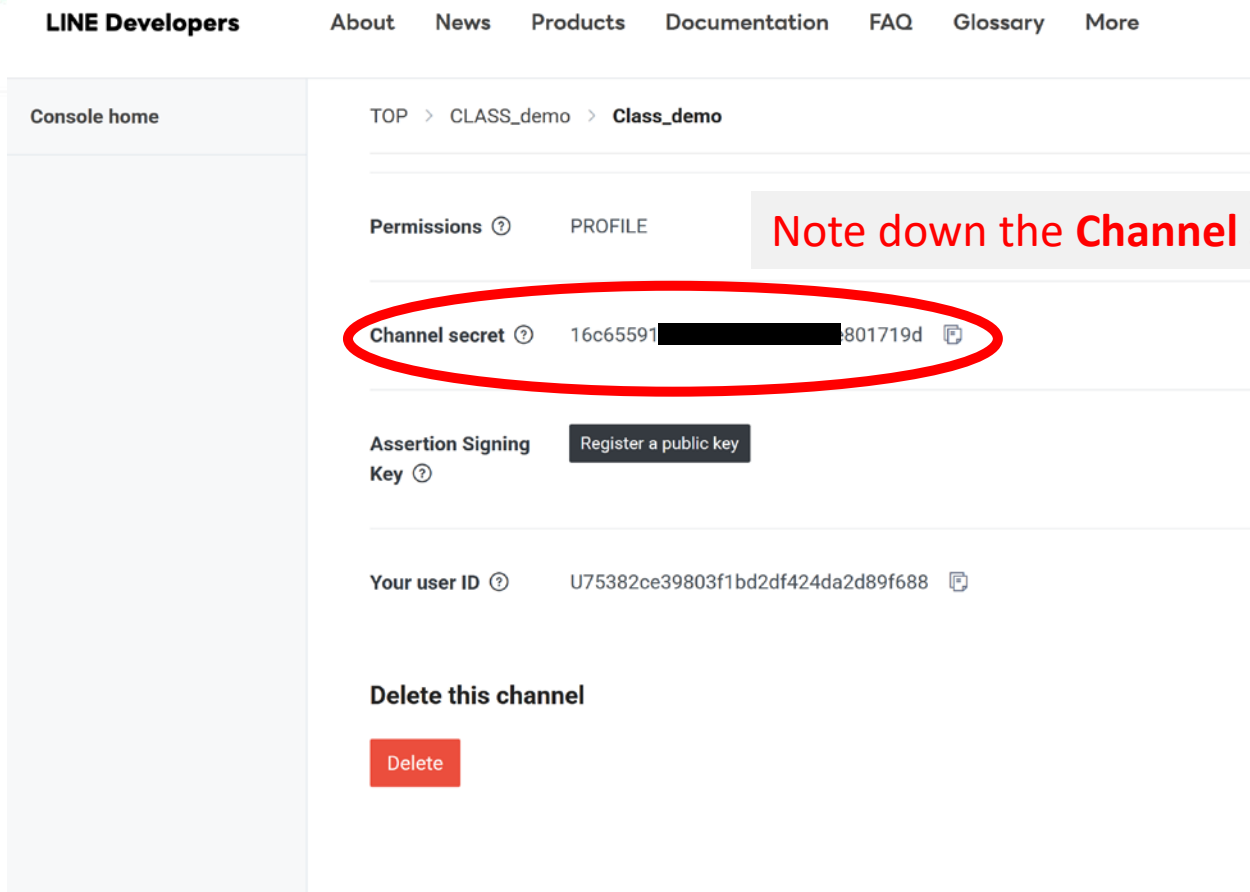


Class_demo

Messaging API



manager.line.biz/account/@948ejayh/setting



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Messaging API

LIFF

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Statistics

Roles

Messaging API settings

Bot information

Bot basic ID

@948ejayh

QR code



The LineBot QR code

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TOP > CLASS_demo > Class_demo > **Messaging API**

Let 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 (long-lived) ?

Issue

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

Note down the Channel access token

Channel access token

Channel access token (long-lived) ?

NWek7bSKf3vuivysrP6C5hfOf [REDACTED] BAWzGIMqXiiJ0LVgJYH8rpemY2fkbMl2Q+U6 [REDACTED] oTxjjBHOCXVIXtY0h8HA
FY6Ea9TgLoFL [REDACTED] JboJYm3QdB04t89/1O/w1cDnyilFU=

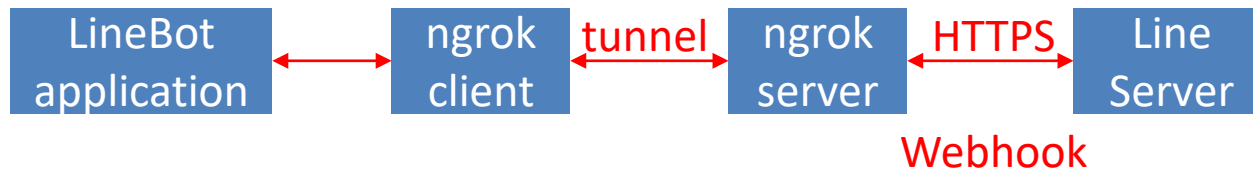
Reissue

3. Verify Your LineBot Application

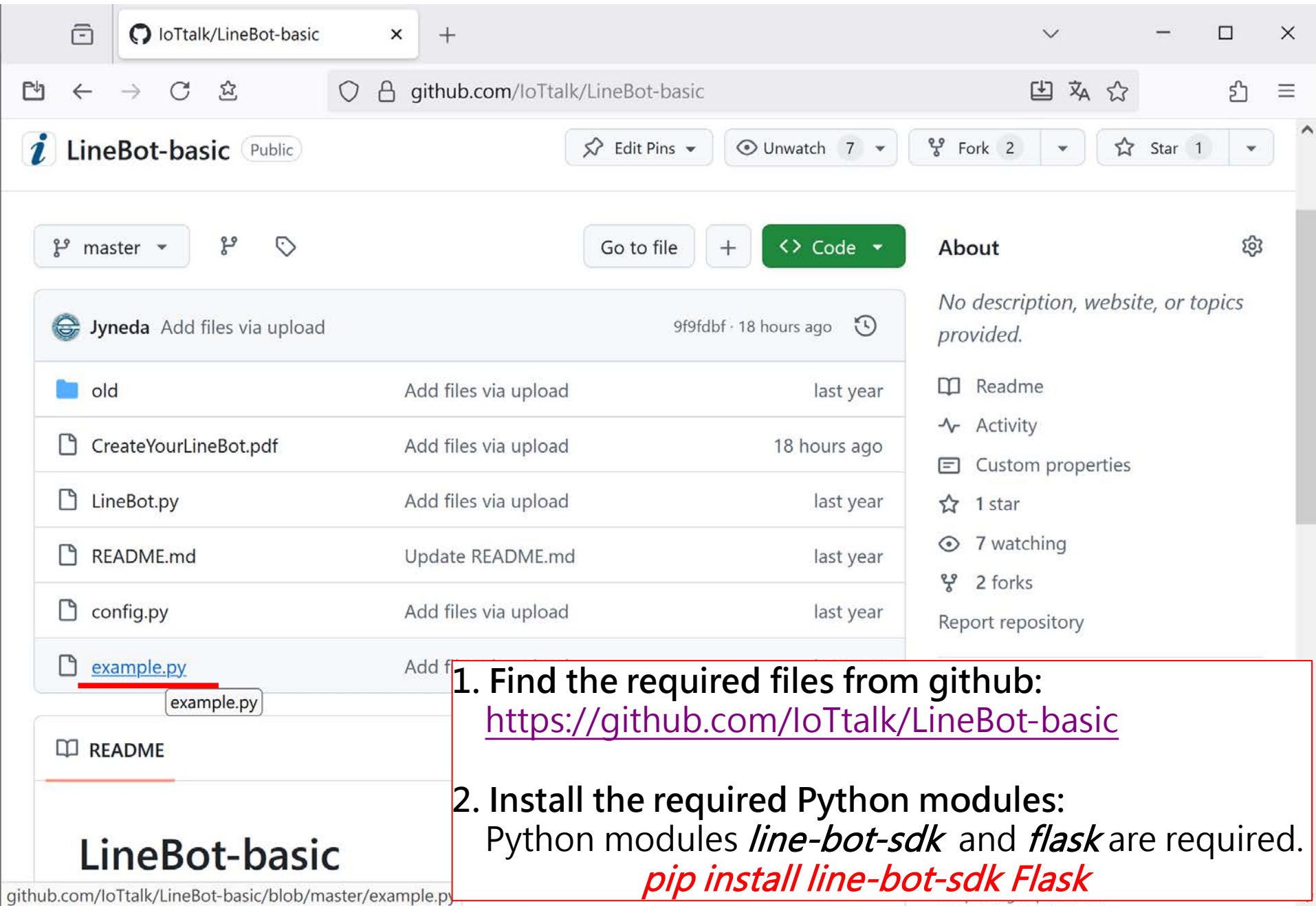
Webhook with Line Server

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.



The screenshot shows the GitHub repository page for `IoTtalk/LineBot-basic`. The repository is public and has 1 star, 7 watchers, and 2 forks. The repository structure is as follows:

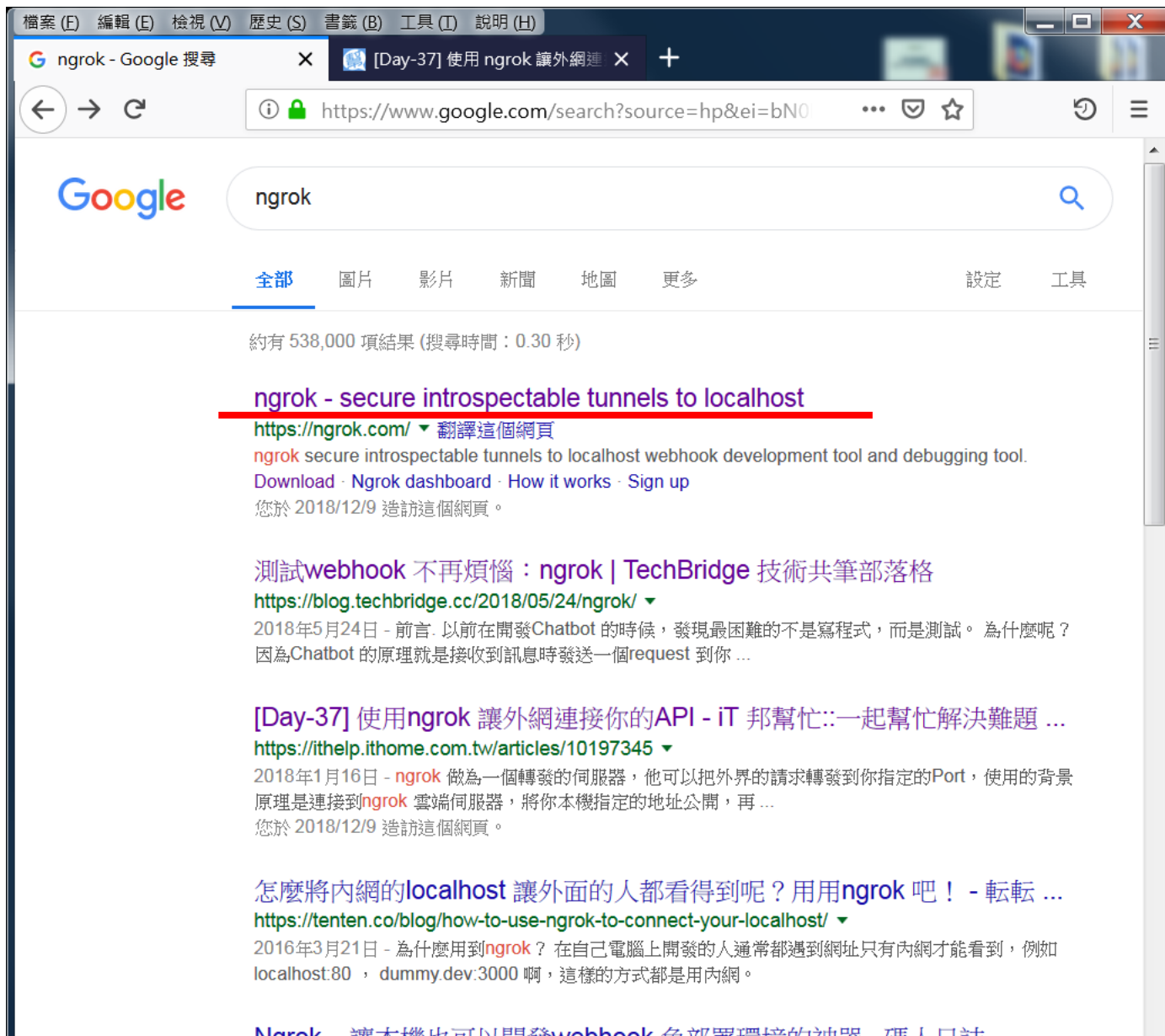
File/Folder	Action	Time
old	Add files via upload	last year
CreateYourLineBot.pdf	Add files via upload	18 hours ago
LineBot.py	Add files via upload	last year
README.md	Update README.md	last year
config.py	Add files via upload	last year
<u>example.py</u>	Add files via upload	last year

The `example.py` file is highlighted with a red box. Below the repository structure, the README section is visible, showing the title `LineBot-basic`.

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.



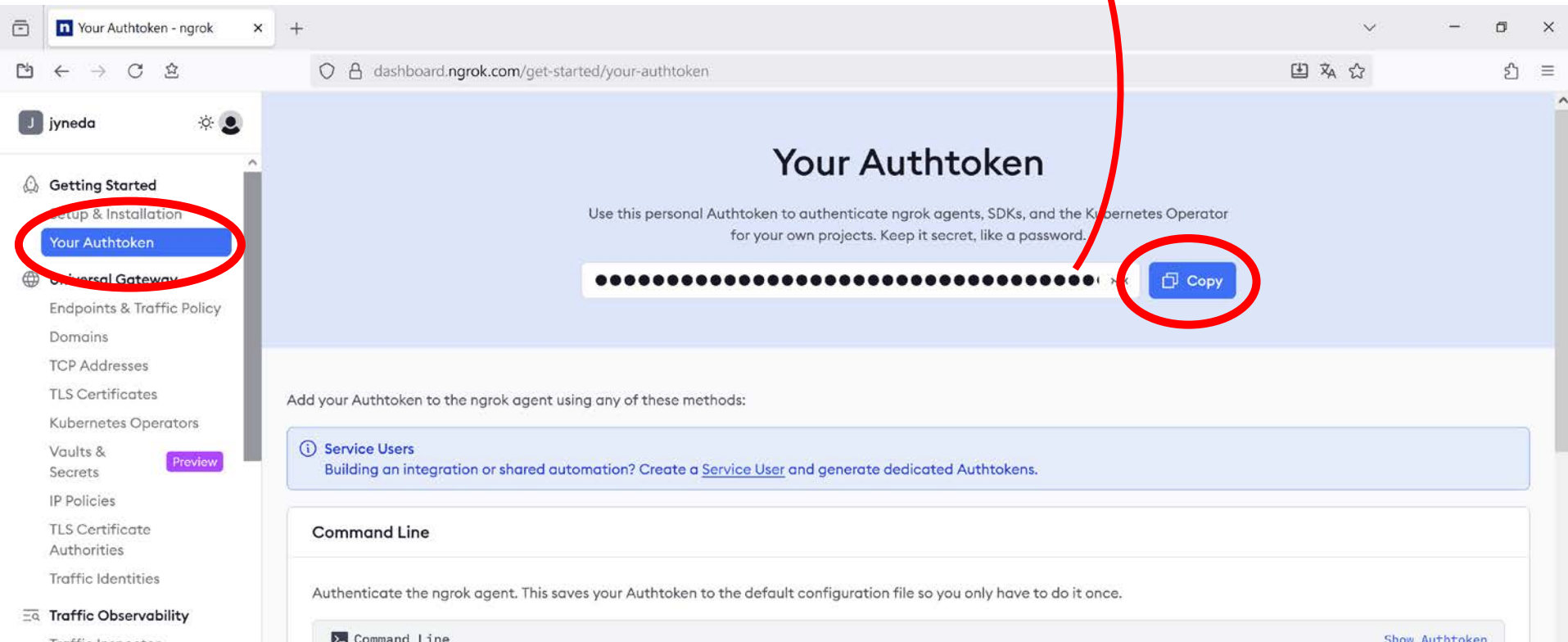
ngrok requires you to log in and add your Authtoken once before use.

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

```
cmd 选取 命令提示字元 - ngrok http 32768
ngrok
(Call+C to quit)
Call internal services from your gateway: https://ngrok.com/r/http-request
Session Status
Account      online
Version     jyneda (Plan: Free)
Region      3.30.0
Latency     Japan (jp)
Web Interface 72ms
Forwarding  http://127.0.0.1:4040
Connections https://36b027a8403c.ngrok-free.app -> http://localhost:32768
HTTP Requests
-----
11:47:08.659 CST GET /favicon.ico 404 NOT FOUND
11:47:08.543 CST GET / 200 OK
```

Copy the ngrok disposable URL.

Please do **NOT** close this window
if you want to keep the connection.

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

The image shows a Notepad++ window with a file named `config.py` open. The code contains the following lines:

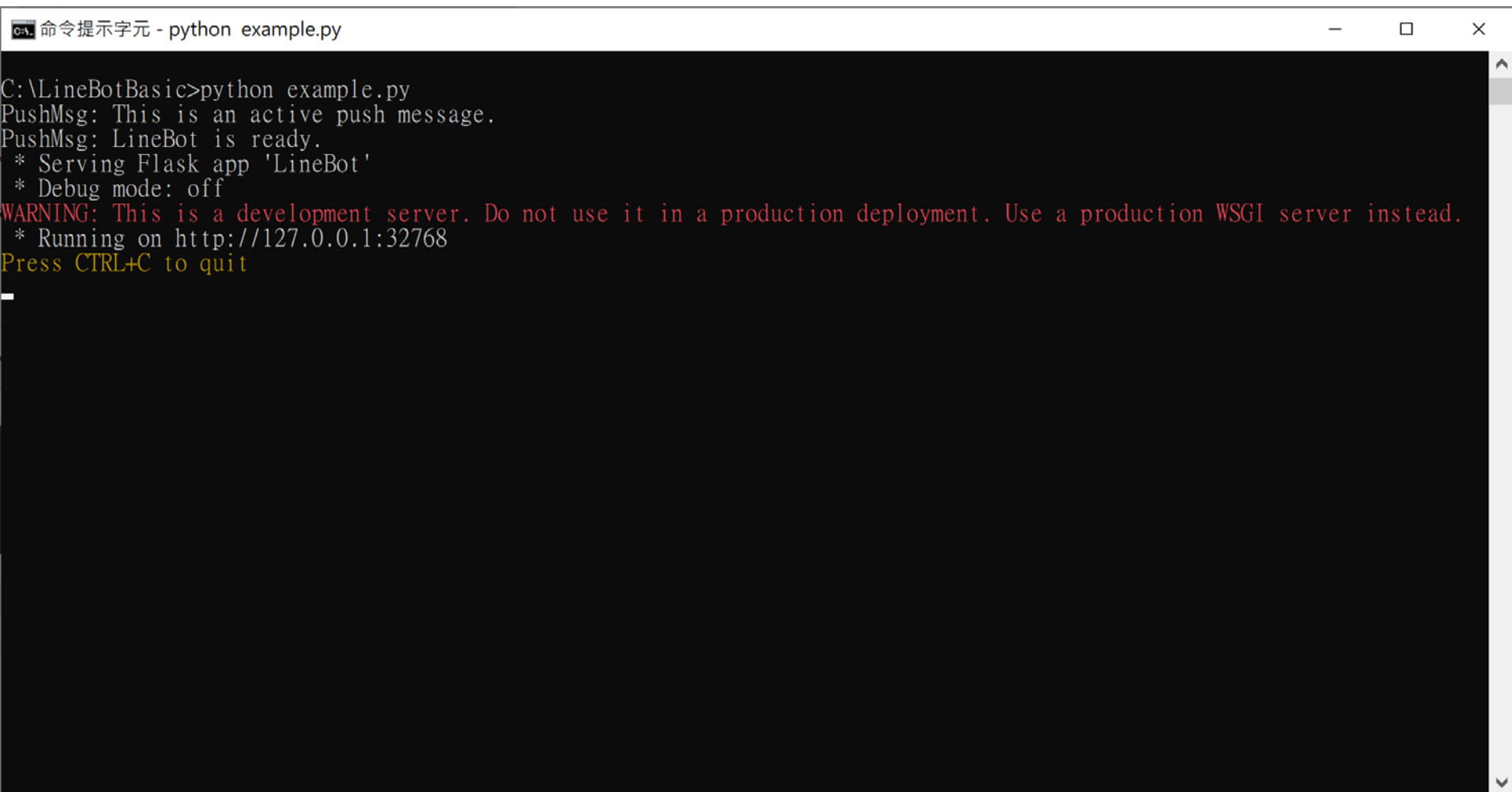
```
1  ### LineBot Information ###
2  ChannelSecret = '16c65591[REDACTED]01719d'
3  ChannelAccessToken = 'NWeK7bSKf3vuiivysrP6C5hfOfpSts[REDACTED]BAWzG1MqXiijJ0LVgJ[REDACTED]112Q+[REDACTED]1f+0[REDACTED]'
4
5
6  ### Line ID File Path ###
7  idfilePath = './userIdFile'
```

A red oval highlights the `ChannelSecret` and `ChannelAccessToken` lines. A red arrow points from the `ChannelSecret` value to the 'Channel secret' field in the LINE Developers console. Another red arrow points from the `ChannelAccessToken` value to the 'Channel access token' field in the console. The console shows the 'Channel secret' as `16c65591a890eb41d994efd5e801719d` and the 'Channel access token' as `NWeK7bSKf3vuiivysrP6C5hfOfpSts[REDACTED]BAWzG1MqXiijJ0LVgJ[REDACTED]112Q+[REDACTED]1f+0[REDACTED]`. Both fields are circled in red. A red text box with the text 'Change them to your bot's.' is positioned between the two windows.

Change them to your bot's.

Execute the `example.py` for the demonstration:

`python example.py`



```
命令提示字元 - python example.py
C:\LineBotBasic>python example.py
PushMsg: This is an active push message.
PushMsg: LineBot is ready.
* Serving Flask app 'LineBot'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:32768
Press CTRL+C to quit
```

Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.

Webhook settings

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

Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.

Webhook settings

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

Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.

Webhook settings

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

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

The screenshot shows a web browser with three tabs labeled 'LINE Developers'. The address bar displays 'developers.line.biz/console/channel/2008249479/messaging-api'. The page header includes the 'LINE Developers' logo and navigation links: 'About', 'News', 'Products', 'Documentation', 'FAQ', 'Glossary', and 'More'. A sidebar on the left contains a 'Console home' link. The main content area shows a breadcrumb trail: 'TOP > CLASS_demo > Class_demo > Messaging API'. Below this is a QR code with the text: 'Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.' The 'Webhook settings' section displays a 'Webhook URL' of 'https://36b027a8403c...' with 'Verify' and 'Edit' buttons. A modal dialog box with a green bar at the bottom says 'Success' and 'OK'. Below the modal, the 'Use webhook' toggle is turned off. The 'LINE Official Account features' section includes the text 'Edit the message text and other settings for these features in the LINE Official Account Manager' and a setting for 'Allow bot to join group chats' which is currently 'Disabled' with an 'Edit' button.

LINE Developers

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Console home

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Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.

Webhook settings

Webhook URL [?] <https://36b027a8403c...> 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

Scan this QR code with LINE to add your LINE Official Account as a friend. You can share the code with others.

Webhook settings

Webhook URL ⓘ https://36b027a8403c.ngrok-free.app

Verify

Edit

Use webhook ⓘ



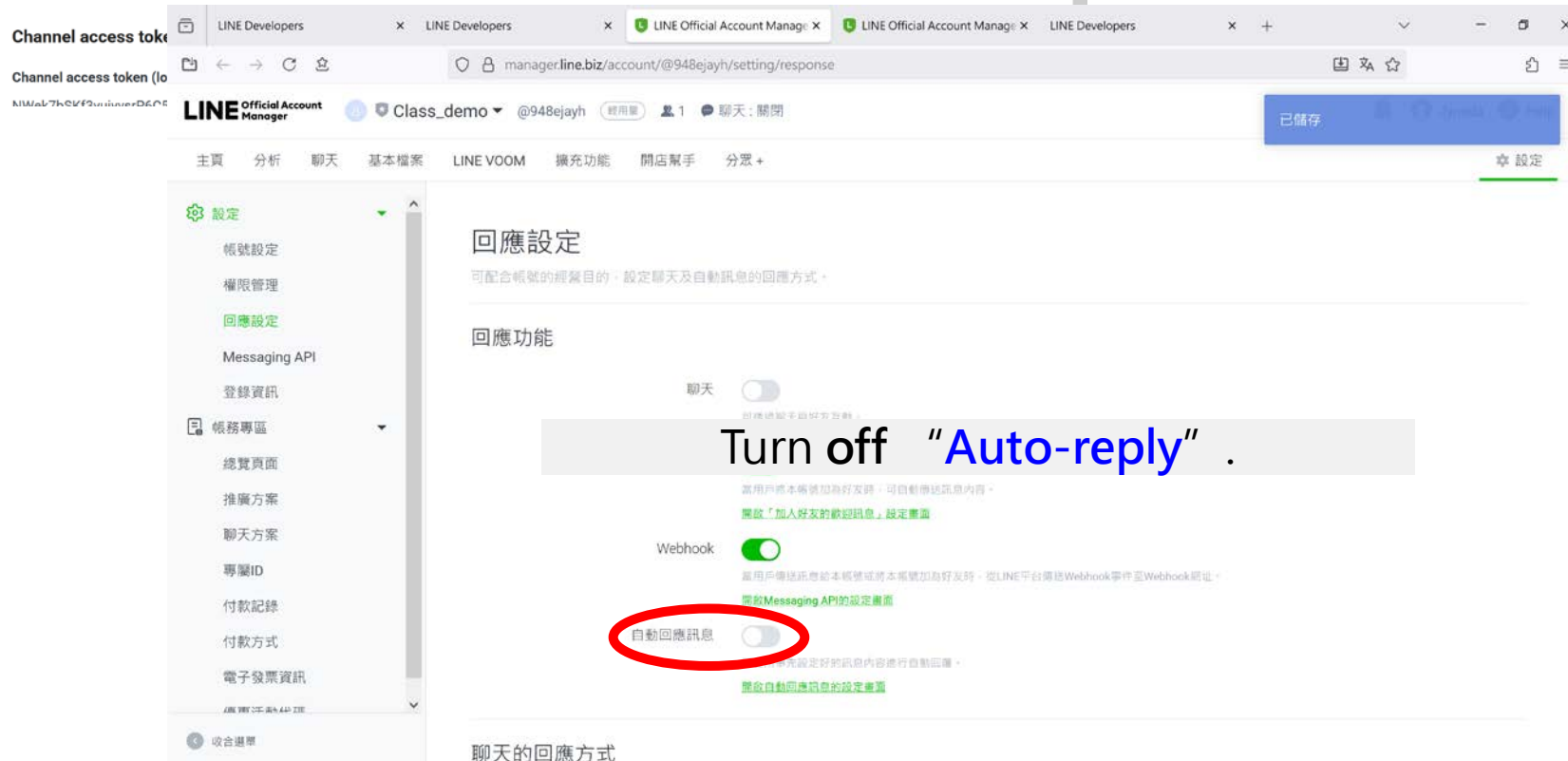
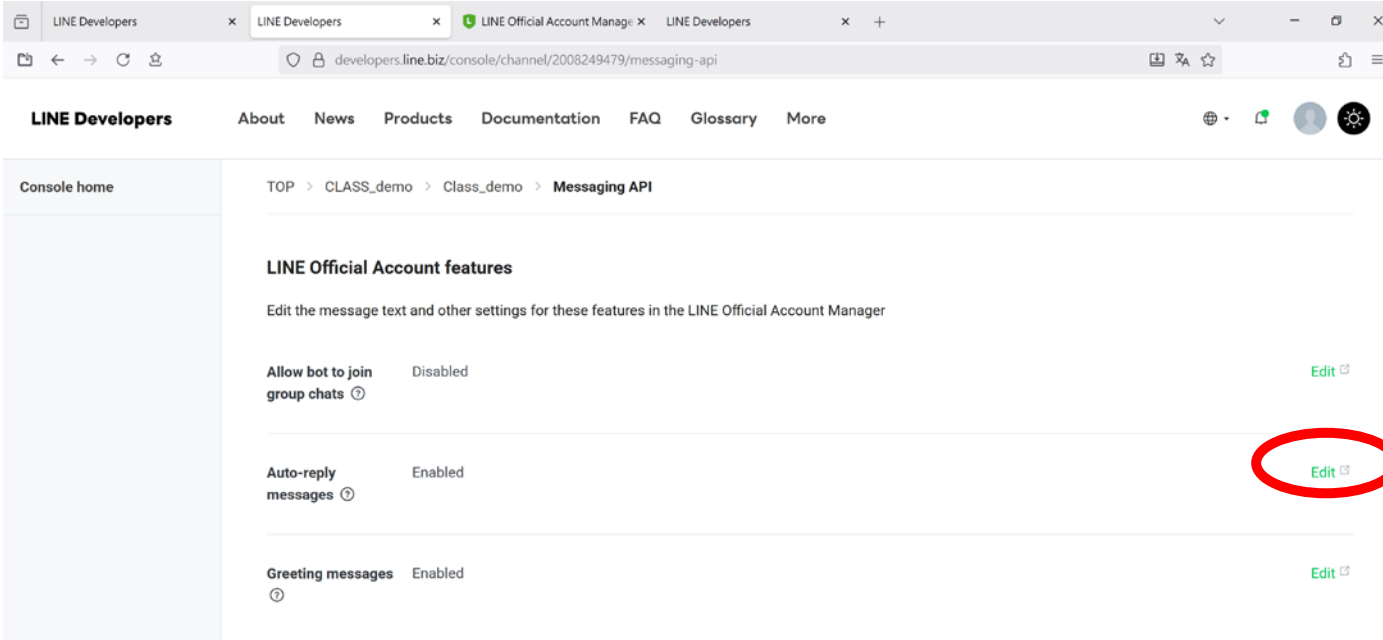
Remember to turn on "Use webhook".

Webhook redelivery ⓘ



Error statistics aggregation ⓘ





LINE Developers x LINE Official Account Manager x

manager.line.biz/account/@948ejayh/setting/response

LINE Official Account Manager Class_demo @948ejayh 輕用量 1 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

設定

帳號設定

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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。

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 ☒

當用戶傳送訊息給本帳號或將本帳號加為好友時，從LINE平台傳送Webhook事件至Webhook網址。

[開啟Messaging API的設定畫面](#)

自動回應訊息 ☐

可使用事先設定好的訊息內容進行自動回應。

[開啟自動回應訊息的設定畫面](#)

聊天的回應方式

You can also edit them 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

Auto-reply messages ?

Disabled

Check the state again.
The state of Auto-reply should be "Disabled".

Edit

Greeting messages ? Enabled

Edit

Channel access token

Channel access token (long-lived) ?

NlMek7hSKf3uuiwerD6C5hfOfaStelSuz4mVDMDGaBAWzGIMeYii 10I Vg IVH8mcmY2fkhMP2Qd1f6ukSu5Wk37tuD14DnNoTviiBHOCPYU1Yv0k8HA

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.

