

了解 Line Bot 聊天機器人

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學習目標：

- 了解 Line Bot 聊天機器人的架構
- 註冊 Line Developers 帳號
- 註冊雲端免費的平台 Heroku
- 設定 VSCode 連結 Heroku 專案

Line Bot 聊天機器人運作流程

1. LINE Bot主要的執行架構：



PS:圖片來源：[\[Python+LINE Bot教學\]6步驟快速上手LINE Bot機器人](#)

2. Line Bot 主要執行架構中，共有三個角色：

- 使用者
- Line 平台
- 聊天機器人：也就是運作中的 Server


3. 開發本程式之前，要做的事：

- 註冊 Line Developers
- 運作中的 Server: 使用雲端免費的平台 Heroku

Line Bot 註冊流程

1. 開啟 Line Developers 官網網頁：<https://developers.line.biz/zh-hant/>
2. 按右上角的 Log In
3. 選擇「使用LINE帳號登入」
4. 輸入姓名及電子郵件
5. 網頁向下拉一點，點擊「Create a new provider」
6. 紅框中，可輸入自己名字、公司名稱！再按下「Create」

Create a new provider

Provider name 

- ✗ 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

7. 選擇「Create a Messaging API channel」



8. 接下來，重要的輸入：

- 填入 Channel name (未來可修改) !
- 填入 Channel description (未來可修改)!
- 填入 Category (不可修改)!
- 填入 Subcategory (不可修改)

Channel icon

optional



- ✓ File type must be one of: PNG, JPG, JPEG, GIF, BMP
- ✓ File must be no larger than 3 MB

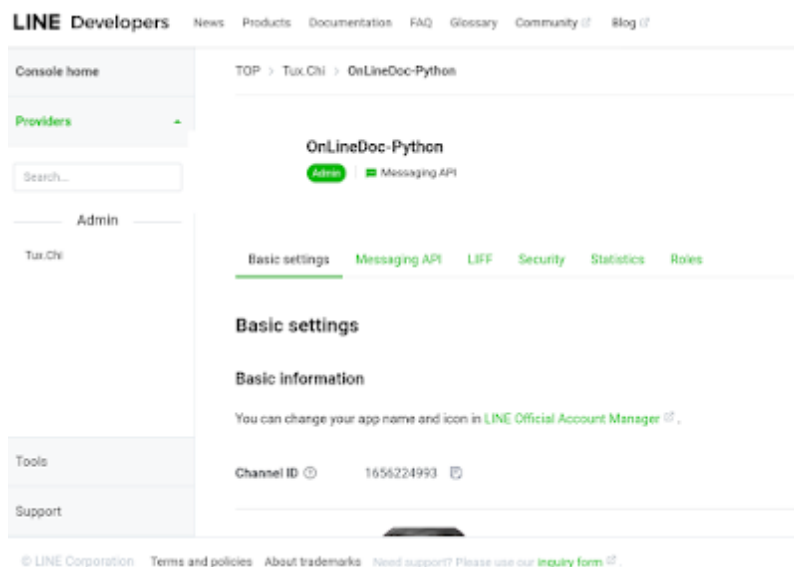
Channel name

Enter channel name

Note: The channel name can't be changed for seven days.

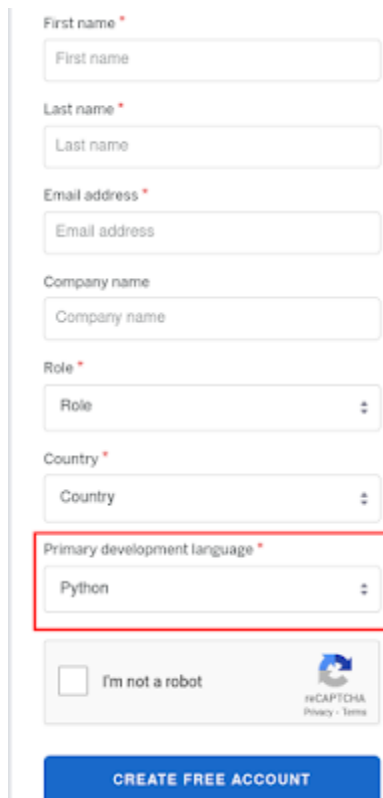
- ✗ Don't leave this empty
- ✓ Don't use special characters (4-byte Unicode)
- ✓ Enter no more than 20 characters

9. 勾選最後兩項資料後，即可「Create」
10. 建好之後的畫面如下：



Heroku 註冊流程

1. 開啟 Heroku 官網：<https://www.heroku.com/>
2. 按下右上角的「Sign Up」進入註冊流程
3. 註冊時，請注意要選擇正確的開發語言：



The image shows a Heroku account creation form. It includes input fields for 'First name', 'Last name', 'Email address', and 'Company name'. There are dropdown menus for 'Role' and 'Country'. The 'Primary development language' dropdown is highlighted with a red box and shows 'Python' selected. Below these fields is a reCAPTCHA checkbox labeled 'I'm not a robot' and a 'CREATE FREE ACCOUNT' button.

填入的信箱，也是要馬上可以收到信件的正确信箱位址
4. 到自己的信件中，確認回函！

heroku

Thanks for signing up with Heroku! You must follow this link to activate your account:

<https://id.heroku.com/account/accept/9990285/ff8a8e31d00690c866383025539bc8e1>

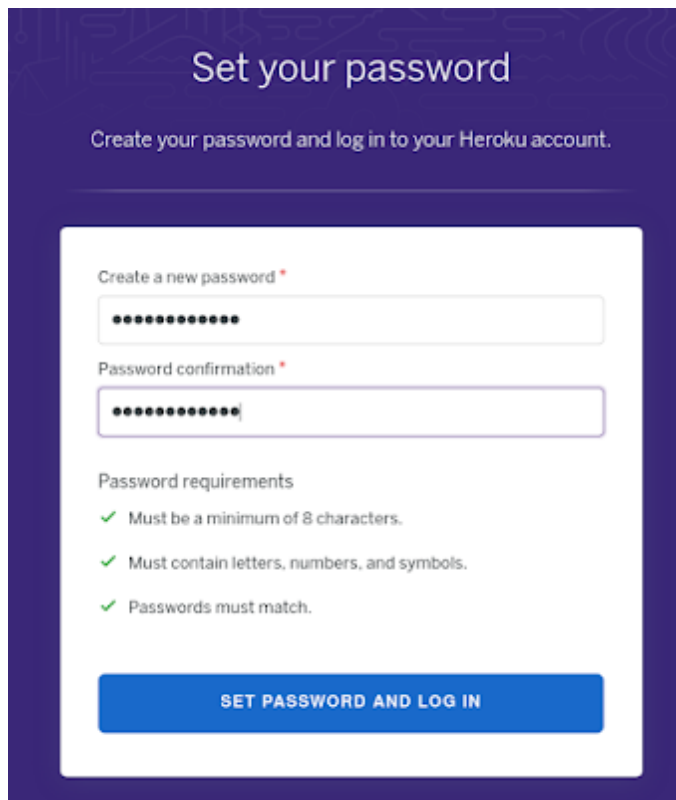
Have fun, and don't hesitate to contact us with your feedback.

The Heroku Team
<https://heroku.com>

Heroku is the cloud platform for rapid deployment and scaling of web applications. Get up and running in minutes, then deploy instantly via Git.

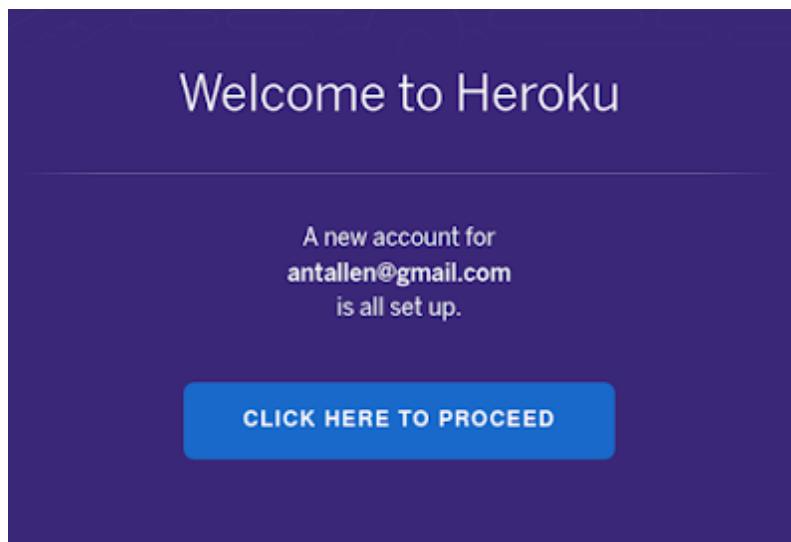
To learn more about Heroku and all its features, check out the Dev Center:
<https://devcenter.heroku.com/articles/quickstart>

5. 新建密碼：注意要求的規則！



The image shows the 'Set your password' screen from Heroku. It has a dark purple background with a white central box. The title 'Set your password' is at the top in white. Below it, a subtitle says 'Create your password and log in to your Heroku account.' The form inside the white box has two input fields: 'Create a new password' and 'Password confirmation', both filled with dots. Below the fields, there are three green checkmarks with text: 'Must be a minimum of 8 characters.', 'Must contain letters, numbers, and symbols.', and 'Passwords must match.' At the bottom of the white box is a blue button with the text 'SET PASSWORD AND LOG IN'.

6. 歡迎光臨！



The image shows the 'Welcome to Heroku' screen. It has a dark purple background. The title 'Welcome to Heroku' is at the top in white. Below it, a subtitle says 'A new account for antallen@gmail.com is all set up.' At the bottom is a blue button with the text 'CLICK HERE TO PROCEED'.

7. 同意合規性！

All Customers

Effective October 1, 2020, you agree that your use of the Heroku Services is governed by the [Salesforce Master Subscription Agreement](#), unless (except for free customers of the Heroku Services) you have a written master subscription agreement executed by salesforce.com for such Heroku Services as referenced in the Documentation, in which case such written salesforce.com master subscription agreement will govern. You further agree that your use or purchase of Heroku Add-ons, Buildpacks or Buttons that are not Heroku Services ("Heroku Elements") are governed by the [Heroku Elements Terms of Use \(Default\)](#), unless the Heroku Elements Marketplace provider has furnished to Heroku a separate terms of use, in which case such provider's terms of use govern the use or purchase of the applicable Heroku Elements. [Additional Terms](#) apply to credit card customers of the Heroku Services.

Heroku Marketplace Providers

If you are or become a Heroku Elements Marketplace Provider, you further agree that your participation in the Heroku Elements Marketplace is governed by the [Salesforce License and Distribution Agreement for the Heroku Elements Marketplace](#).

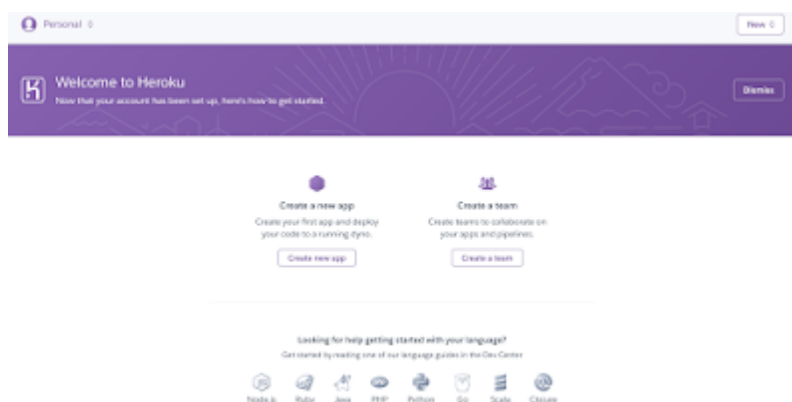
Italian Customers

Are you domiciled in Italy?

☐ Yes ☒ No

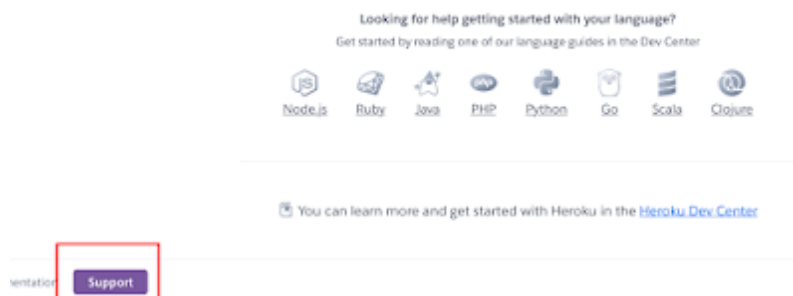
[Accept](#)

8. Heroku 主畫面！

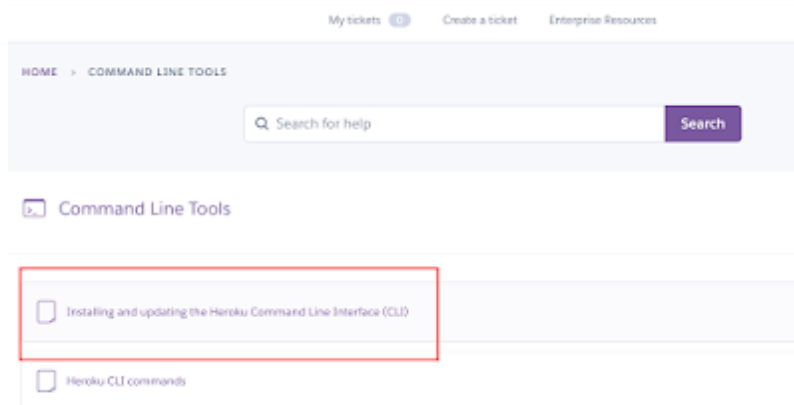


安裝 Heroku CLI 程式

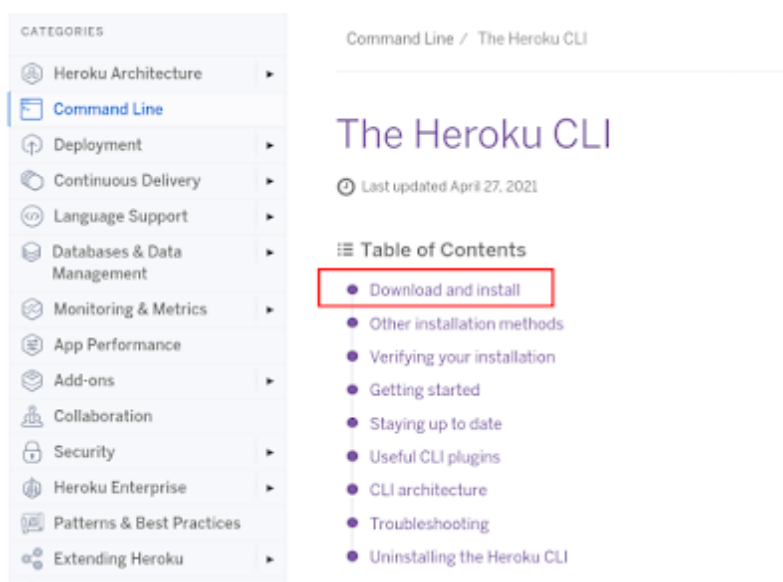
1. 登入 Heroku 主畫面後，按下下方的「Support」按鈕！



2. 選擇「Installing and updating the」這個項目！



3. 選擇「Download and Install」項目！



4. 選擇合適的安裝項目！進行後續安裝！

Download and install

! The Heroku CLI requires Git, the popular version control system. If you don't already have Git installed, complete the following before installing the CLI:

- [Git installation](#)
- [First-time Git setup](#)

! Currently, the Windows installers may display a warning titled "Windows protected your PC". To run the installation when this warning is shown, click "More info", verify the publisher as "salesforce.com, inc", then click the "Run anyway" button.

macOS

```
$ brew tap heroku/brew && brew install heroku
```

Windows

Download the appropriate installer for your Windows installation:

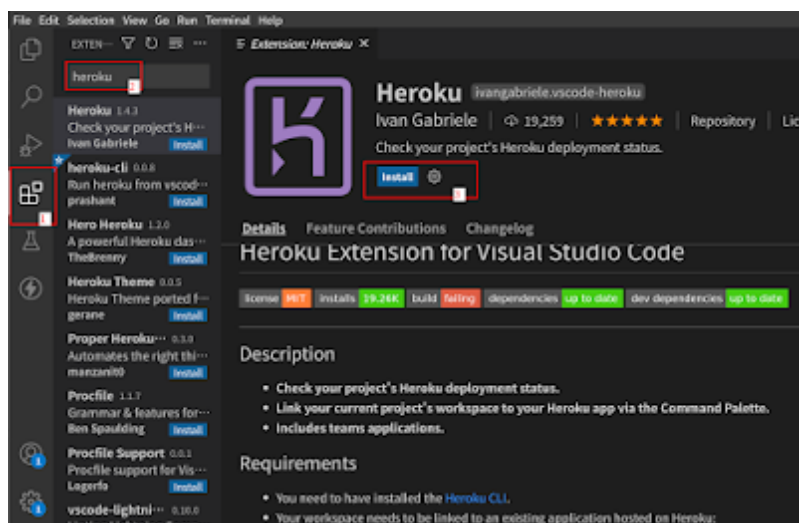
[64-bit installer](#)

[32-bit installer](#)

5. 安裝完成後，執行「heroku -v」指令，測試是否安裝完成！

設定 VSCode 連結 Heroku 專案

1. 開啟 VSCode，選擇安裝 Heroku 工具！



2. 在 VSCode 中，開啟 Heroku 專案

3. 使用「Command Palette...」，輸入「Heroku: Link the current workspace to an existing Heroku app」，自動找尋 Heroku 專案設定檔，連結 Heroku 專案！

4. 在文字介面視窗中，可安裝 line-bot-sdk，協助本地端執行與除錯工

作：pip install line-bot-sdk

參考文獻：

- [第 09 天：LINE BOT SDK：註冊！註冊！註冊！](#)