

02. Publish你的Chatbot到Azure上

1. 準備工作，請參考00.Ready.pdf

2. 在Terminal上執行以下命令

```
az account set --subscription 'name or id'
```

登陸會跳轉到Browser，你需要在Browser上確認信息，成功後，Terminal會返回相關的你所有的Azure SubScripton信息

3. 在Terminal 下選擇你的Azure SubScripton

```
az login
```

執行成功，你可以看到如下圖信息

```
{
  "cloudName": "AzureCloud",
  "homeTenantId": "XXXXXXXXXXXXXXXXXXXXd5",
  "id": "XXXXXXXXXXXXXXXXXXXX2",
  "isDefault": false,
  "managedByTenants": [],
  "name": "Microsoft Azure Sponsorship",
  "state": "Disabled",
  "tenantId": "XXXXXXXXXXXXXXXXXXXX5",
  "user": {
    "name": "John.Doe@contoso.com",
    "type": "user"
  }
},
{
  "cloudName": "AzureCloud",
  "homeTenantId": "XXXXXXXXXXXXXXXXXXXX5",
  "id": "XXXXXXXXXXXXXXXXXXXX",
  "isDefault": false,
  "managedByTenants": [],
  "name": "Visual Studio Enterprise Subscription",
  "state": "Enabled",
  "tenantId": "XXXXXXXXXXXXXXXXXXXX",
  "user": {
    "name": "John.Doe@contoso.com",
    "type": "user"
  }
}
```

3. 在Terminal上，創建一個Azure 上的雲端資源,注册應用程式

```
az ad app create --display-name "你的app名字" --password "記得是至少16位的密碼"
--available-to-other-tenants
```

```
$ az ad app create --display-name "hkbottoazdemo" --password "[REDACTED]" --available-to-other-tenants {
{
    "acceptMappedClaims": null,
    "addIns": [],
    "allowGuestsSignIn": null,
    "allowProctThroughUsers": null,
    "appId": "[REDACTED]",
    "appOwner": null,
    "appPermissions": null,
    "appRoles": [],
    "applicationTemplateId": null,
    "availableToOtherTenants": true,
    "deletionTimestamp": null,
    "displayName": "hkbottoazdemo",
    "errorUrl": null,
    "groupMembershipClaims": null,
    "homepage": null,
    "identifierUris": [],
    "informationalUrls": {
        "marketing": null,
        "privacy": null,
        "support": null,
        "termsOfService": null
    }
}
```

從返回結果你可以獲取你的appid，并记录低设置的password 作为appPassword

3. 打開你的Azure Portal，在App registration上你可以找到你通過步驟三創建的app名字，例如我剛才創建了chatbottoazure

HK hkbottotzdemo

4. 打開code目錄下的chatbothol2,並進入目錄在Terminal輸入以下命令

```
cd chatbothol2
```

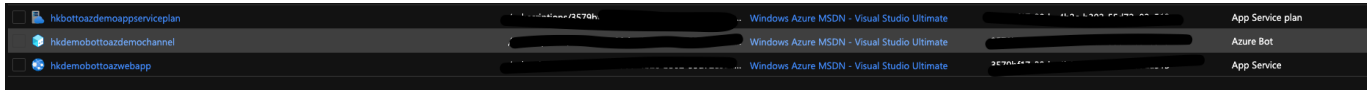
```
az deployment sub create --template-file "./deploymentTemplates/template-  
with-new-rg.json" --location <所在區域, 香港在eastasia> --parameters appId="剛  
才第二步拿到的appID" appSecret="剛才第二步拿到的appPassword" botId="新建的bot名"  
botSku=F0 newAppServicePlanName="App Service服務名" newWebAppName="bot服務名"  
groupName="新的資源組名" groupLocation="資源組所在區域, 香港在eastasia"  
newAppServicePlanLocation="資源組所在區域, 香港在eastasia" --name "bot服務名"
```

以下是我的案例，大家可以參考

```
az deployment sub create --template-file "./deploymentTemplates/template-  
with-new-rg.json" --location eastasia --parameters appId="剛才第二步拿到的  
appId" appSecret="剛才第二步拿到的appPassword"  
botId="hkdemobottoazdemochannel" botSku=F0  
newAppServicePlanName="hkdemobottoazwebappplan"  
newWebAppName="hkdemobottoazwebapp" groupName="hkdemobottoazdemogroup"  
groupLocation="eastasia" newAppServicePlanLocation="eastasia" --name
```

```
"hkdemobottoazdemochannel"
```

创建成功后你可以在Azure Portal上All resources看到如下信息



5. 在config.py文件中配置在第二步中获取的AppID, AppPassword

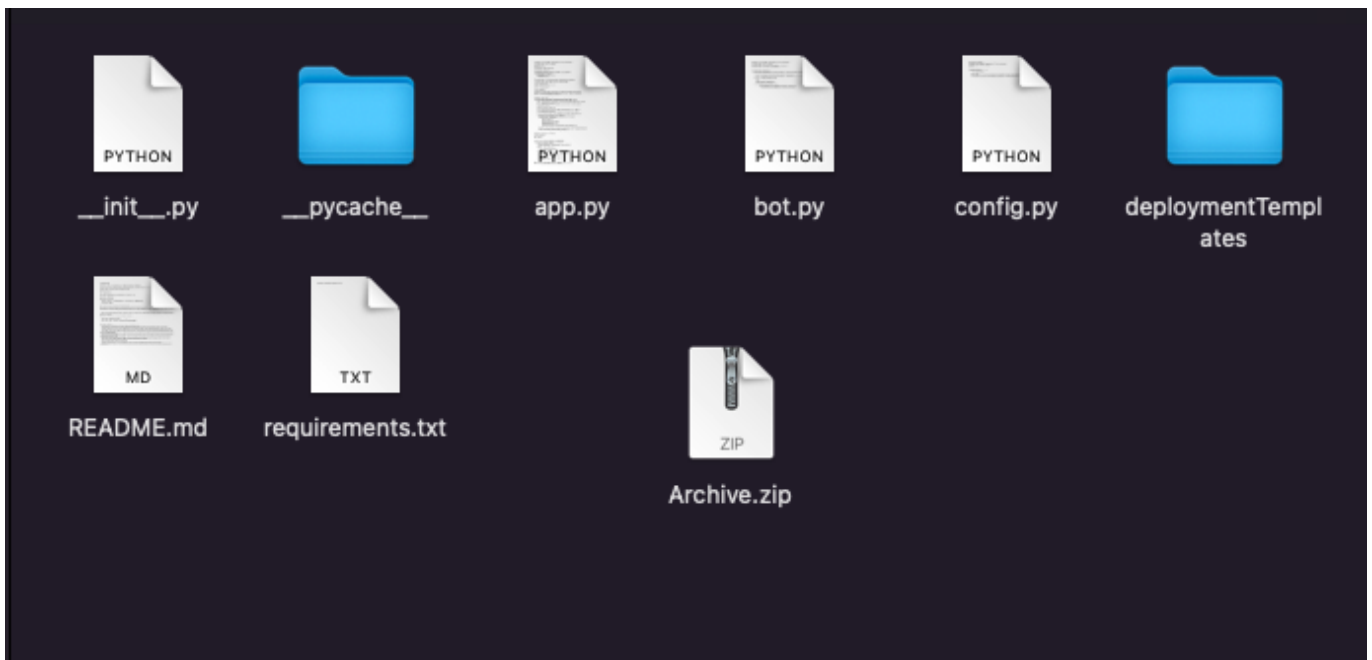
```
import os

class DefaultConfig:
    """ Bot Configuration """

    PORT = 3978
    APP_ID = os.environ.get("MicrosoftAppId", "XXXXXXXXXXXXXXXXXXXX")
    APP_PASSWORD = os.environ.get("MicrosoftAppPassword", "XXXXXXXXXXXX")
```

6. zip 文件

這裡zip應用是有技巧的，大家一定要注意，要zip的是app.py所處目錄下zip，否則部署的時候會失敗 (如下圖，我在chatbothol2下zip，生成了一個Archive.zip)



7. 上傳zip文件到剛才生成的webapp服務，執行以下操作


```
az webapp deployment source config-zip --resource-group "之前創建的資源組名" --
```

```
--name "之前創建的webapp名" --src zip文件路徑
```

以下是我的案例，大家可以參考

```
$ az webapp deployment source config-zip --resource-group "hkdemobottoazdemogroup" --name "hkdemobottoazwebapp" --src ./Archive.zip
Getting scm site credentials for zip deployment
Starting zip deployment. This operation can take a while to complete ...
Deployment endpoint responded with status code 202
{
  "active": true,
  "author": "N/A",
  "author_email": "N/A",
  "complete": true,
  "deployer": "Push-Deployer",
  "end_time": "2021-11-10T17:48:10.4705353Z",
  "id": "d18fc7d3ed21484faa6b9eae6c63da54",
  "is_readonly": true,
  "is_temp": false,
  "last_success_end_time": "2021-11-10T17:48:10.4705353Z",
  "log_url": "https://hkdemobottoazwebapp.scm.azurewebsites.net/api/deployments/latest/log",
  "message": "Created via a push deployment",
  "progress": "",
  "received_time": "2021-11-10T17:46:34.0125389Z",
  "site_name": "hkdemobottoazwebapp",
  "start_time": "2021-11-10T17:46:35.2999406Z",
  "status": 4,
  "status_text": "",
  "url": "https://hkdemobottoazwebapp.scm.azurewebsites.net/api/deployments/latest"
}
```

8. 創建成功後，可以去Azure Portal 查看Bot service(注意：上傳成功，要等等)，選擇Test in WebChat，如果正確效果如下

 **hkdemobottoazdemochannel | Test in Web Chat** ...

Azure Bot

Overview

Activity log

Access control (IAM)

Tags

Settings

Bot profile

Configuration

Channels

Channels (deprecated)

Pricing

Test in Web Chat

Encryption

Properties

Locks

Monitoring

Conversational analytics

Alerts

Metrics

Diagnostic settings

Logs

Automation


Tasks (preview)

Export template

Support + troubleshooting

New Support Request

Test

 [Start over](#)

Hello and welcome!


Just now

香港教育大學

Just now

You said '香港教育大學'

Just now

 Type your message 