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 login
```

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

3. 在Terminal 下選擇你的Azure SubScription

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

執行成功，你可以看到如下圖信息

```
  },
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "████████████████████████d5",
    "id": "██████████████████████2",
    "isDefault": false,
    "managedByTenants": [],
    "name": "Microsoft Azure Sponsorship",
    "state": "Disabled",
    "tenantId": "████████████████████5",
    "user": {
      "name": "████████████",
      "type": "user"
    }
  },
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "████████████████████5",
    "id": "████████████████████",
    "isDefault": false,
    "managedByTenants": [],
    "name": "Visual Studio Enterprise Subscription",
    "state": "Enabled",
    "tenantId": "████████████████████",
    "user": {
      "name": "████████████",
      "type": "user"
    }
  }
}
```

1. 在Terminal上，創建一個Azure 上的雲端資源,注册应用程式

```
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
```

從返回結果你可以獲取你的appid， 并记录低设置的password 作為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

> 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
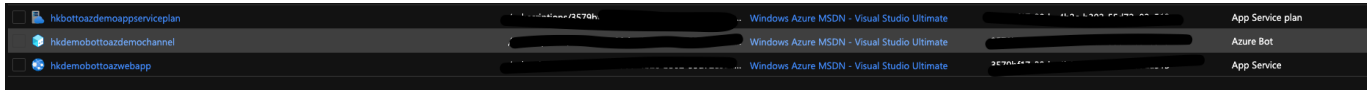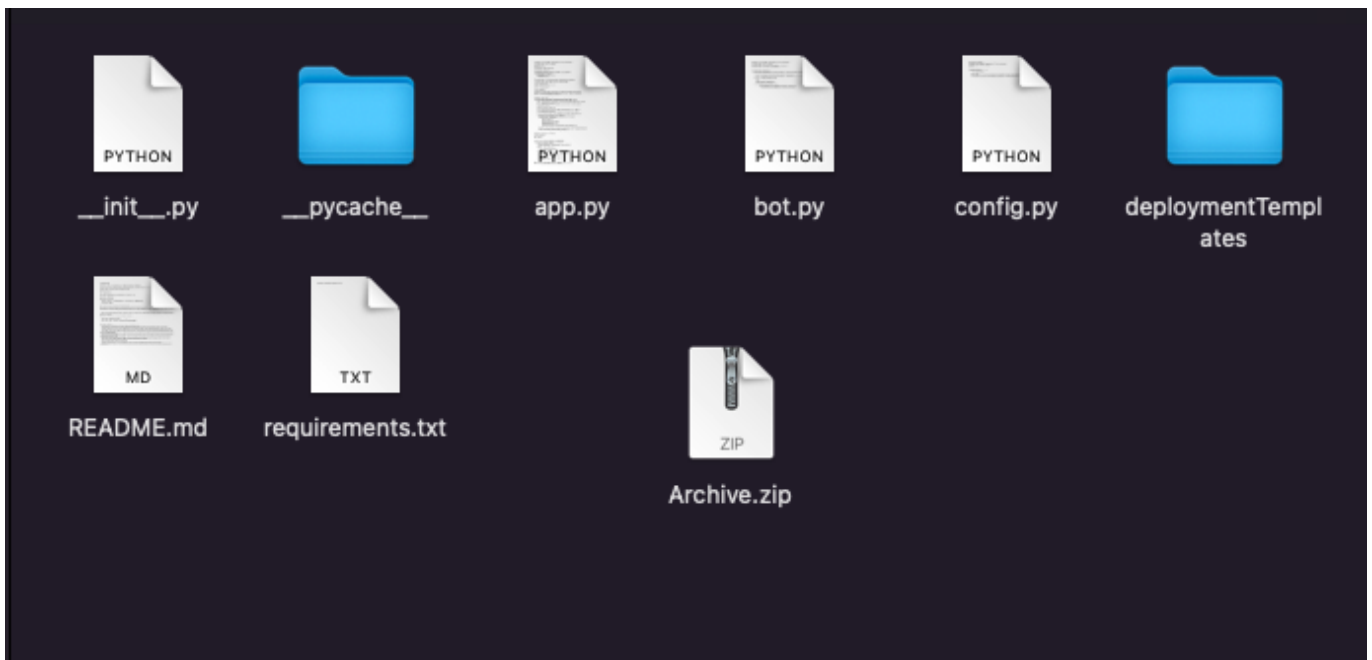

5. 在config.py文件中配置在第二步中獲取的AppID，AppPassword

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 ./Archiv
e.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

🔍 Search (Cmd+/) «

Test

🔄 Start over

🧊 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

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 ➤