- Step 1

  Download Visual Studio Code for Windows

  https://code.visualstudio.com/download

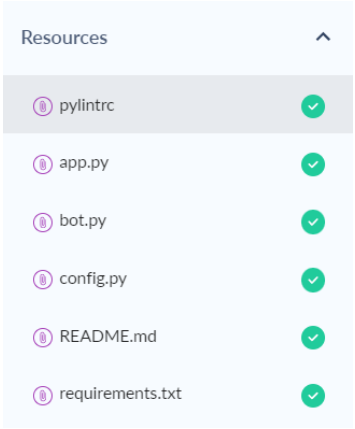
- Step 2

  Download Azure Cli

  https://learn.microsoft.com/en-us/cli/azure/install-azure-cli

- Step 3

  Download the pre-requisite resource libraries.



- Step 4

  Download and install 7-zip

- Step 5

  Put all the resource libraries in a folder in a way that they are in the folder in their root form (not once again within a folder). 7-zip tool will do that automatically.

  Copy the path of the folder on your PC.

  "C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1"

- Step 6

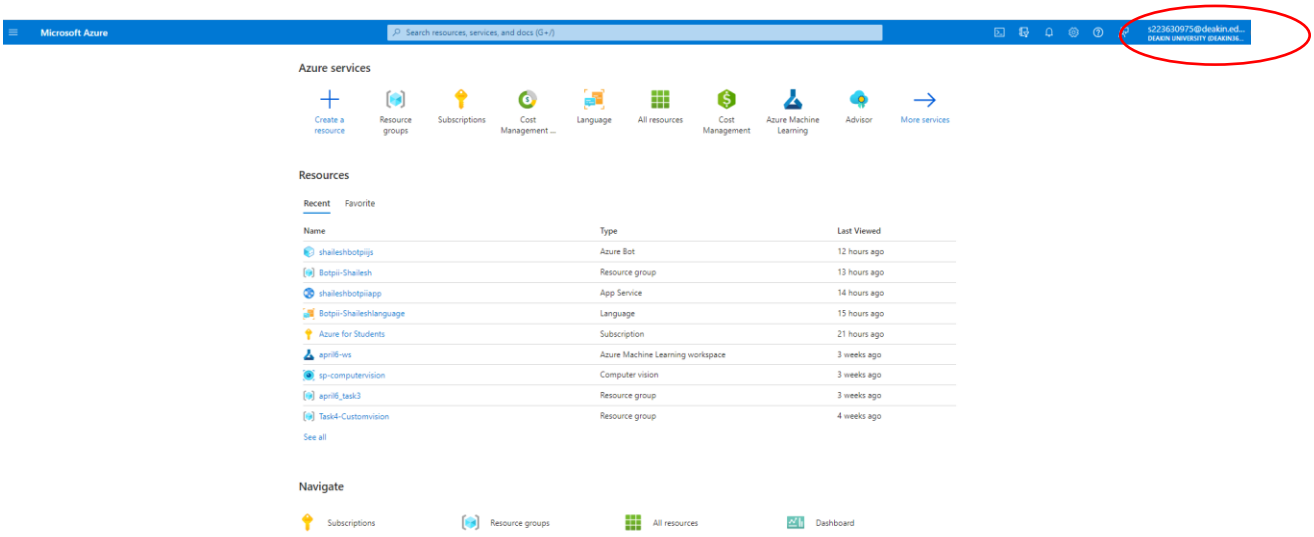
  Launch Visual Code Studio

- Step 7

  In the Visual Code Studio open and load the pre-requisite resource library packages opening the folder where the libraries are saved

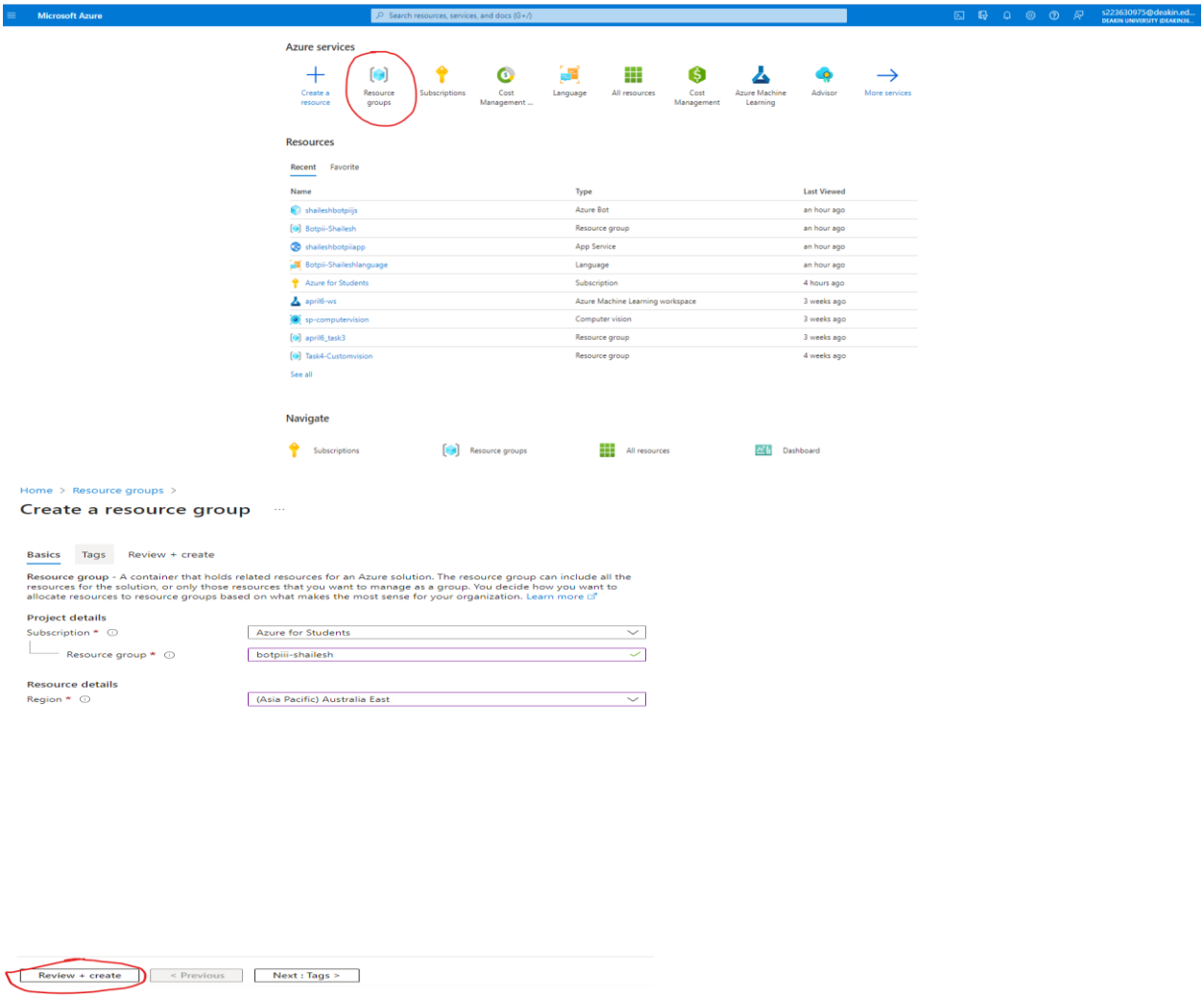
- Step 8

  Log into your MS Azure Account

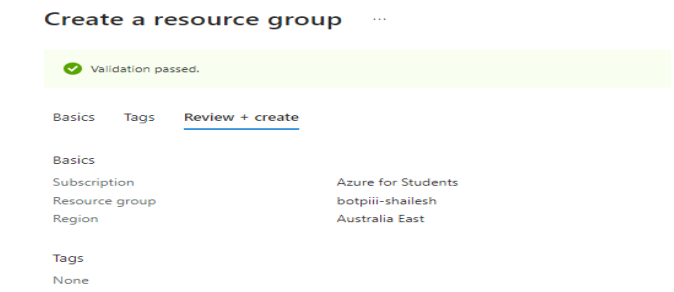


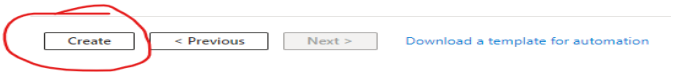
- Step 9

  Create a Resource Group (actual Resource Group created for the project was **Botpii-Shailesh**)

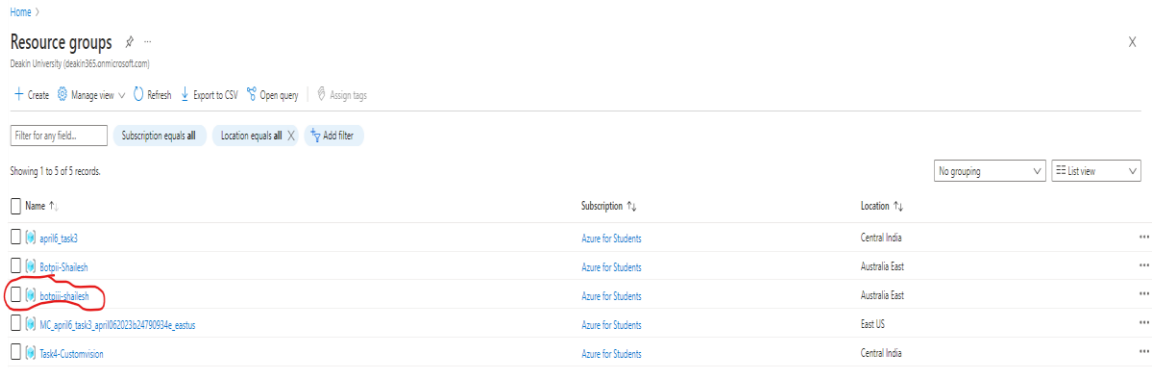


Wait for validation check



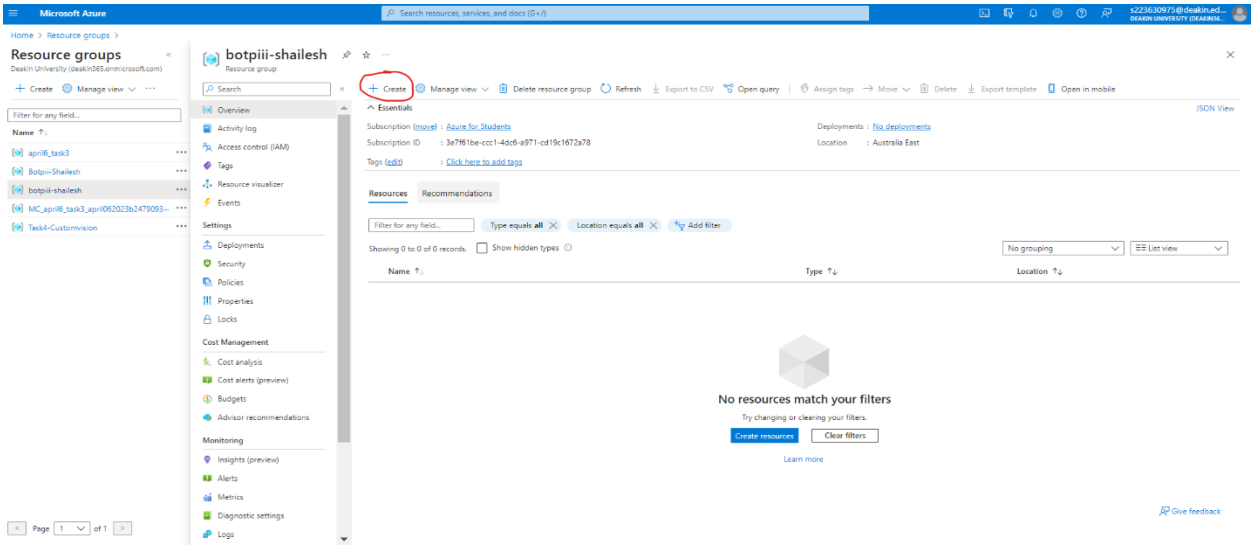


New Resource Group is created.

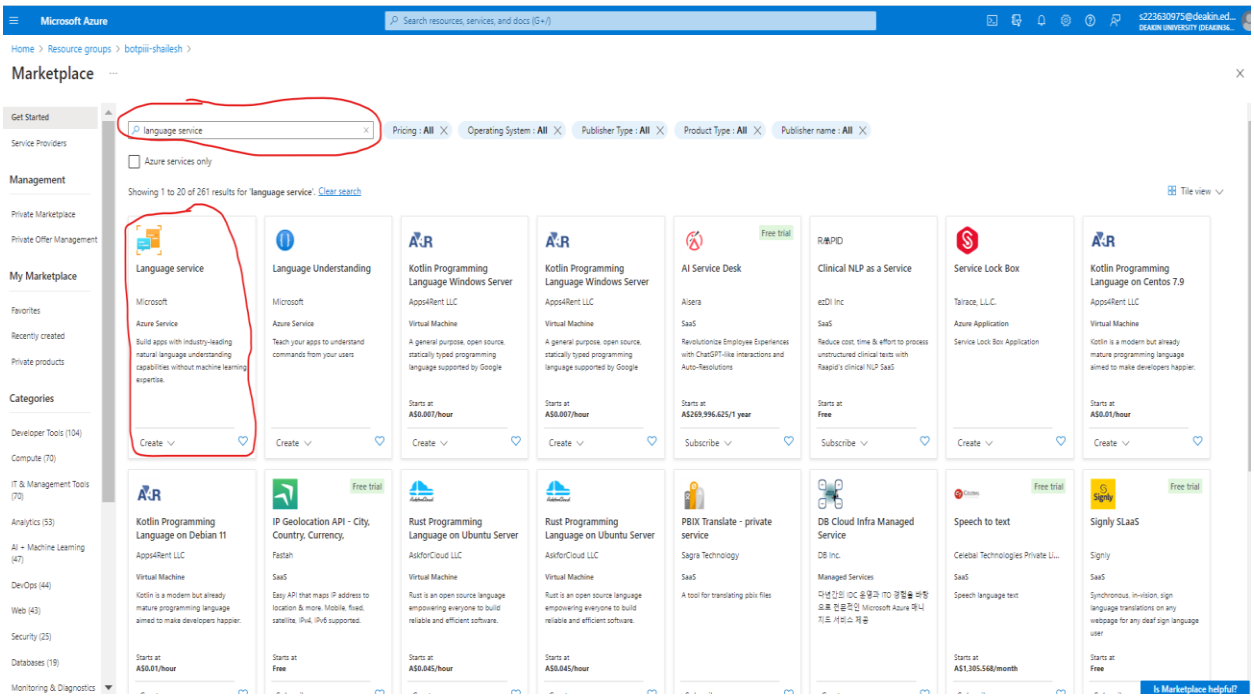


- Step 10

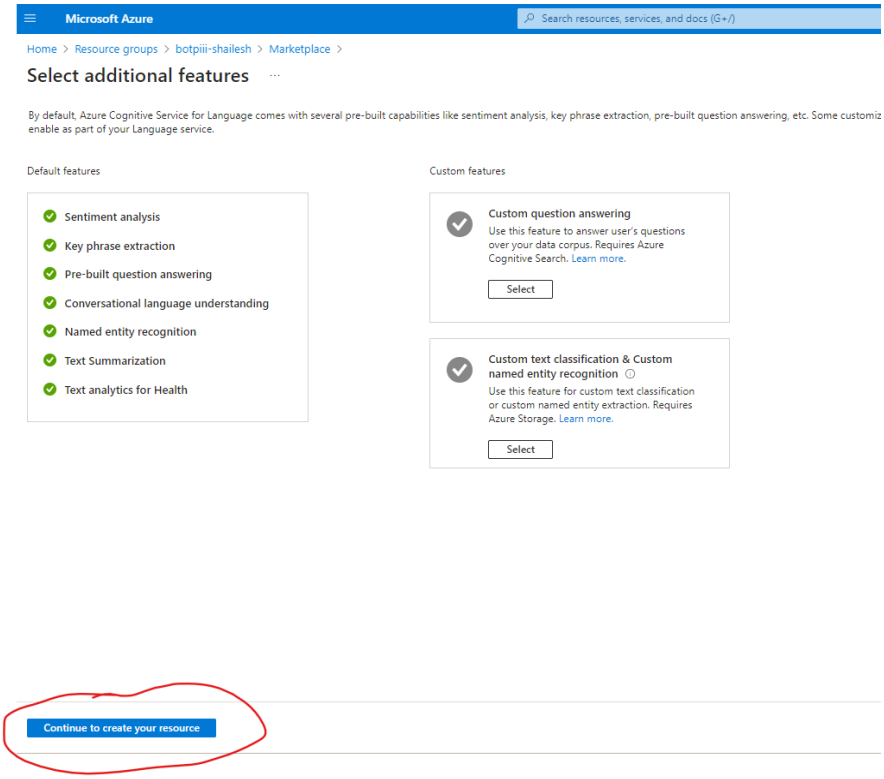
  Within the resource group, create a Language Services Resource

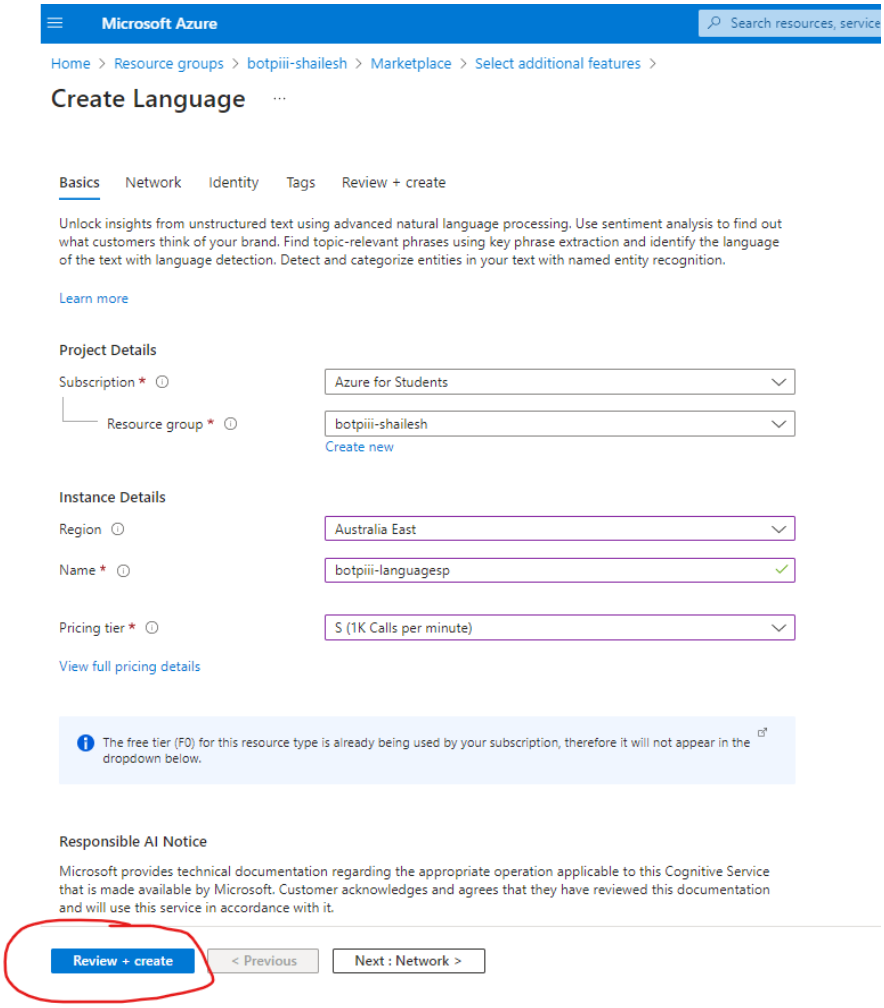


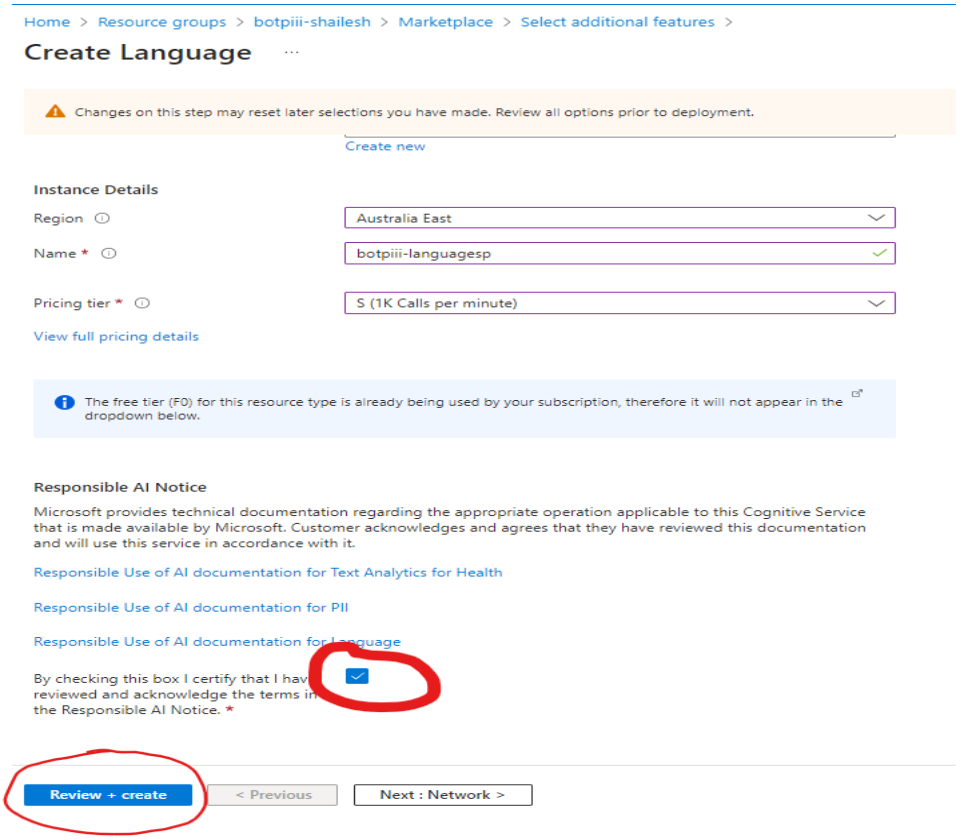
After clicking the create button, you will enter the Market Place, where you need to search for 'Language Services '

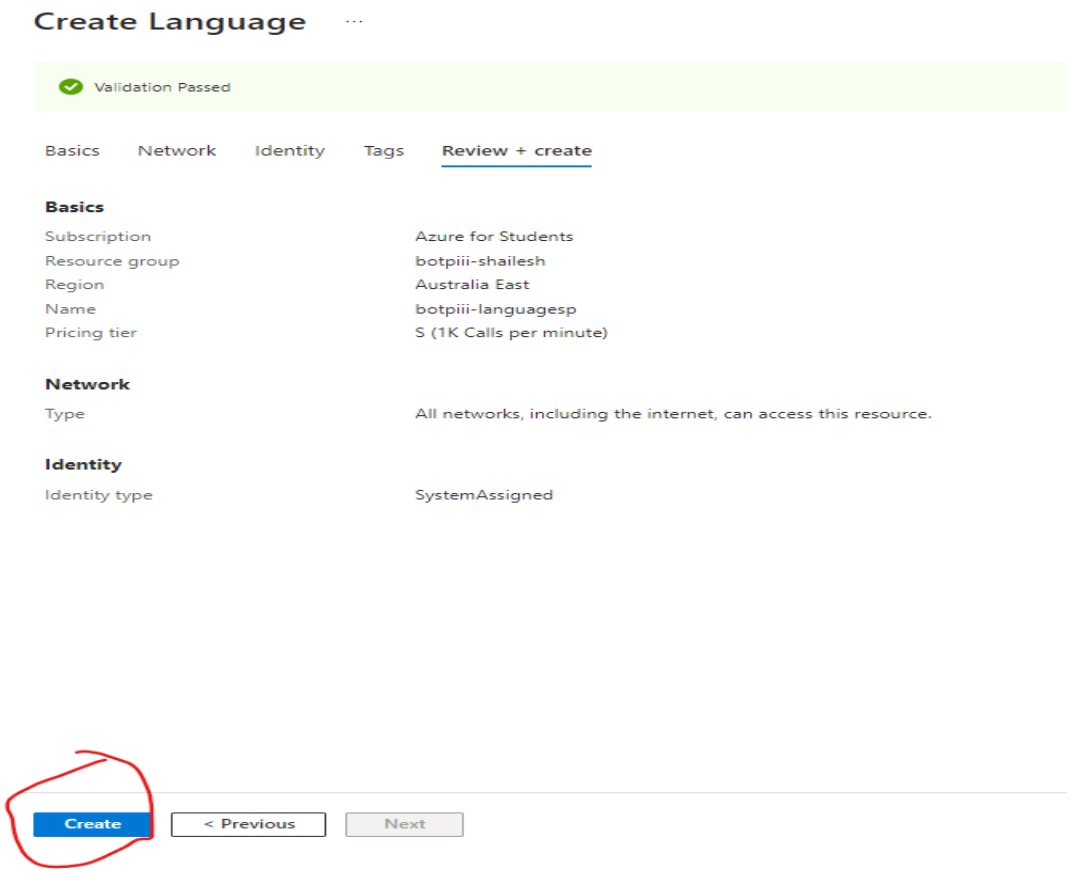


Select Language Service and create a new resource.

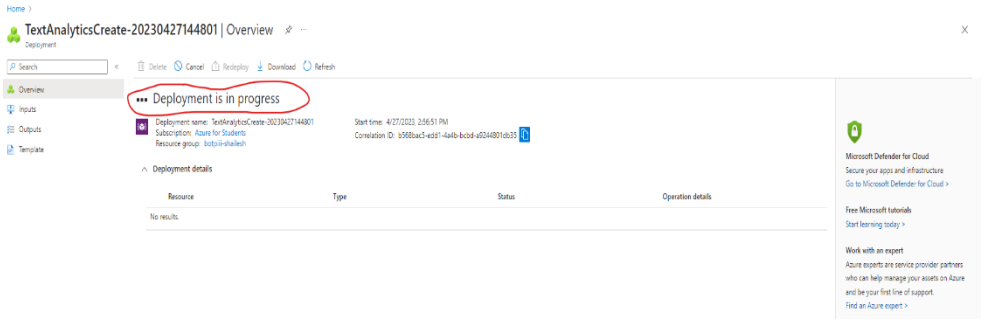

Microsoft Azure
Search resources, services, and docs (G+/)
Home > Resource groups > botpiii-shailesh > Marketplace >
Select additional features
By default, Azure Cognitive Service for Language comes with several pre-built capabilities like sentiment analysis, key phrase extraction, pre-built question answering, etc. Some customiz
enable as part of your Language service.
Default features
Sentiment analysis
Key phrase extraction
Pre-built question answering
Conversational language understanding
Named entity recognition
Text Summarization
Text analytics for Health
Custom features
Custom question answering
Use this feature to answer user's questions over your data corpus. Requires Azure Cognitive Search. Learn more.
Select
Custom text classification & Custom named entity recognition
Use this feature for custom text classification or custom named entity extraction. Requires Azure Storage. Learn more.
Select
Continue to create your resource


Microsoft Azure
Search resources, service
Home > Resource groups > botpiii-shailesh > Marketplace > Select additional features >
Create Language
Basics
Network
Identity
Tags
Review + create
Unlock insights from unstructured text using advanced natural language processing. Use sentiment analysis to find out what customers think of your brand. Find topic-relevant phrases using key phrase extraction and identify the language of the text with language detection. Detect and categorize entities in your text with named entity recognition.
Learn more
Project Details
Subscription *
Azure for Students
Resource group *
botpiii-shailesh
Create new
Instance Details
Region
Australia East
Name *
botpiii-languagesp
Pricing tier *
S (1K Calls per minute)
View full pricing details
The free tier (F0) for this resource type is already being used by your subscription, therefore it will not appear in the dropdown below.
Responsible AI Notice
Microsoft provides technical documentation regarding the appropriate operation applicable to this Cognitive Service that is made available by Microsoft. Customer acknowledges and agrees that they have reviewed this documentation and will use this service in accordance with it.
Review + create
< Previous
Next : Network >

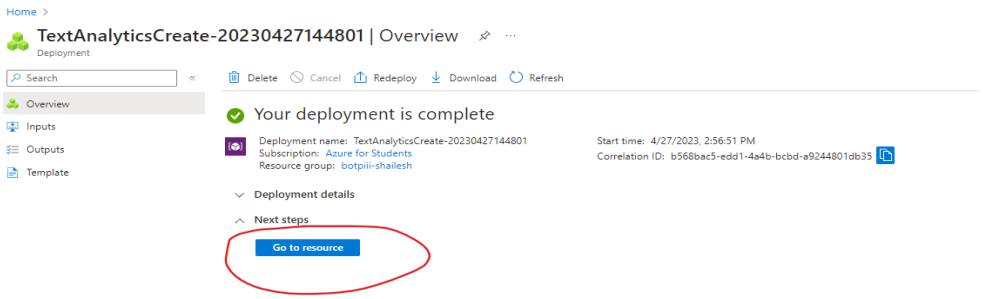

Home > Resource groups > botpiii-shailesh > Marketplace > Select additional features >
Create Language
Changes on this step may reset later selections you have made. Review all options prior to deployment.
Create new
Instance Details
Region
Australia East
Name *
botpiii-languagesp
Pricing tier *
S (1K Calls per minute)
View full pricing details
The free tier (F0) for this resource type is already being used by your subscription, therefore it will not appear in the dropdown below.
Responsible AI Notice
Microsoft provides technical documentation regarding the appropriate operation applicable to this Cognitive Service that is made available by Microsoft. Customer acknowledges and agrees that they have reviewed this documentation and will use this service in accordance with it.
Responsible Use of AI documentation for Text Analytics for Health
Responsible Use of AI documentation for PII
Responsible Use of AI documentation for Language
By checking this box I certify that I hav
reviewed and acknowledge the terms in
the Responsible AI Notice. *
Review + create
< Previous
Next : Network >



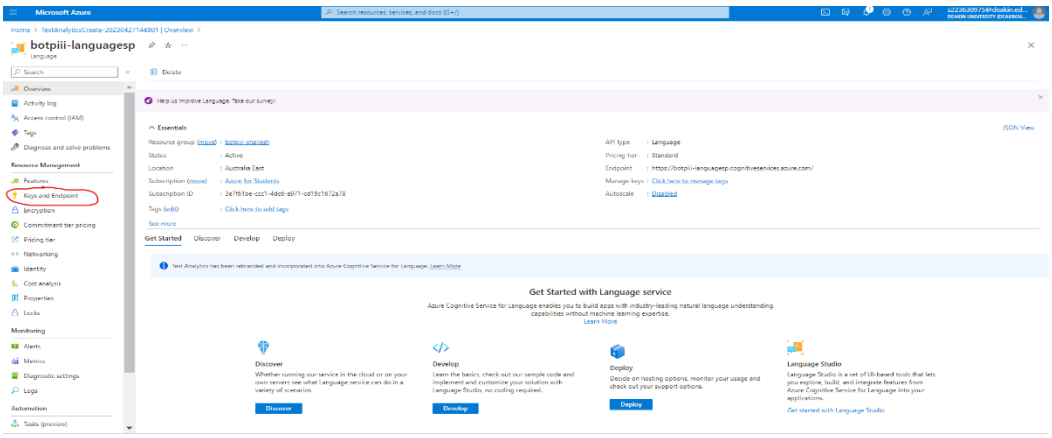
Wait for a couple of mins



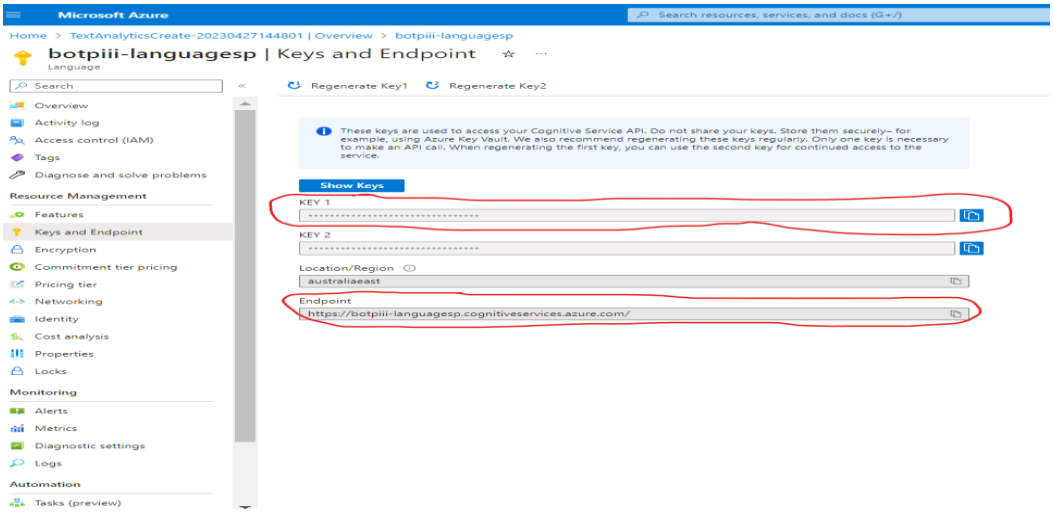
The resource will be created.



Go to the new resource created.



Go to Keys and Endpoint



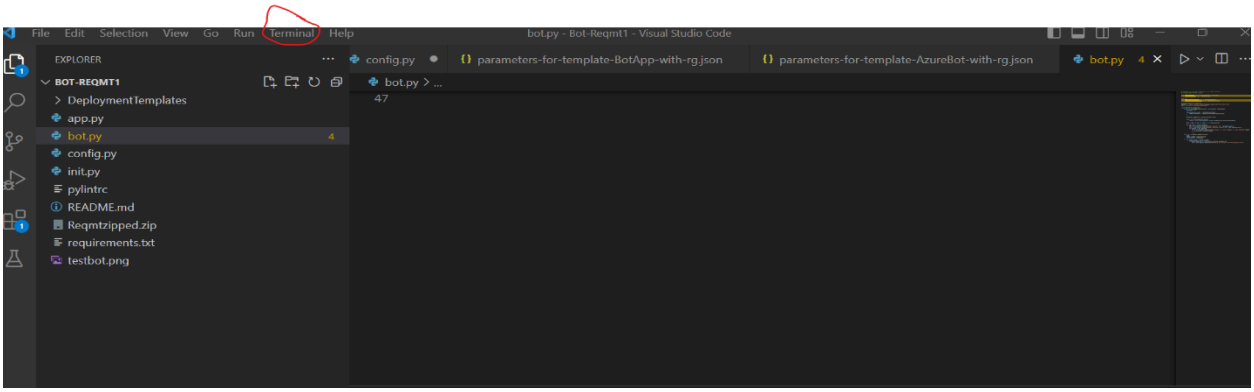
Store the end point URL and Key 1 in a notepad for later use.

- Step 11

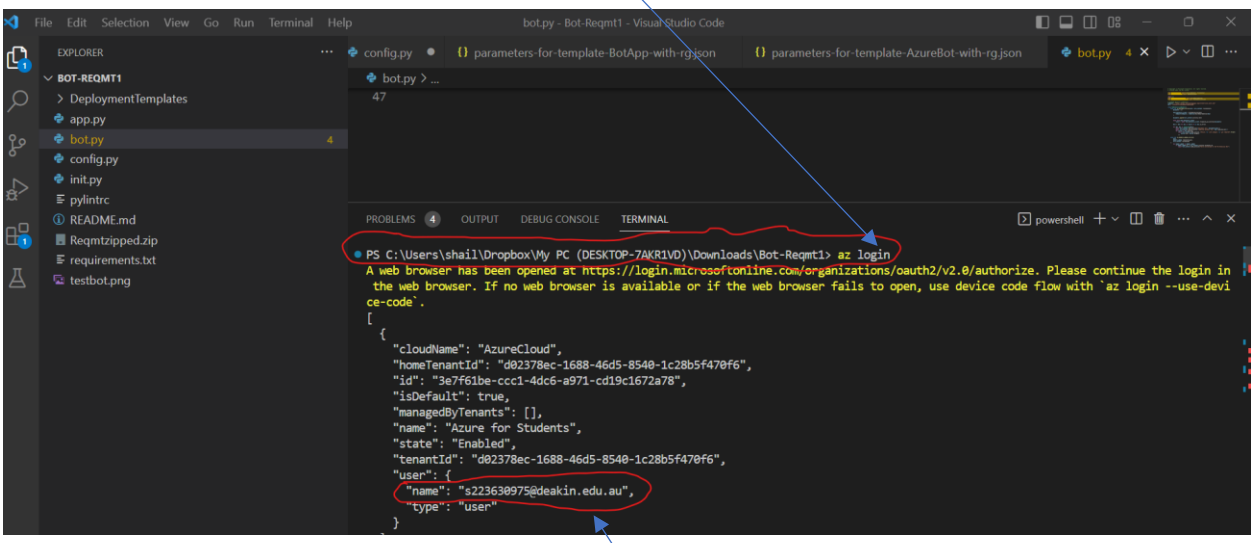
  New App Registration

In step 7, we have already loaded in VSC the pre-requisite resources.

Open a new terminal in VSC.



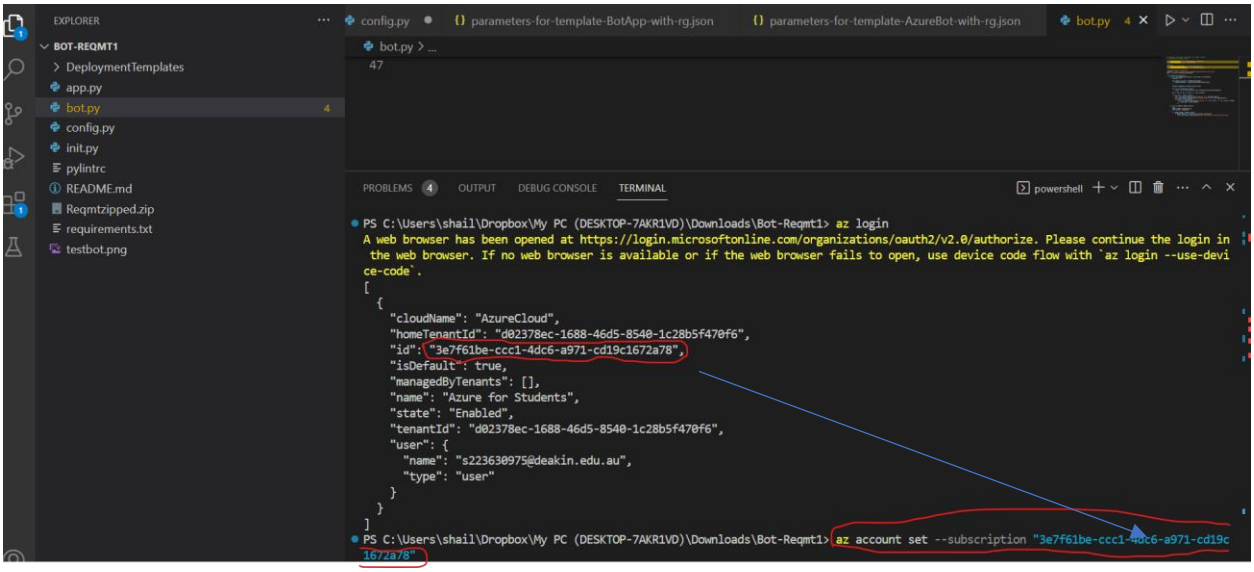
In the new terminal, log in to your Azure Account by entering the prompt ‘az login’



The output will confirm the login and your Deakin id.

- Step 12

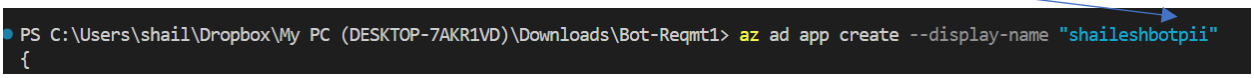
  Set the Account with the subscription id



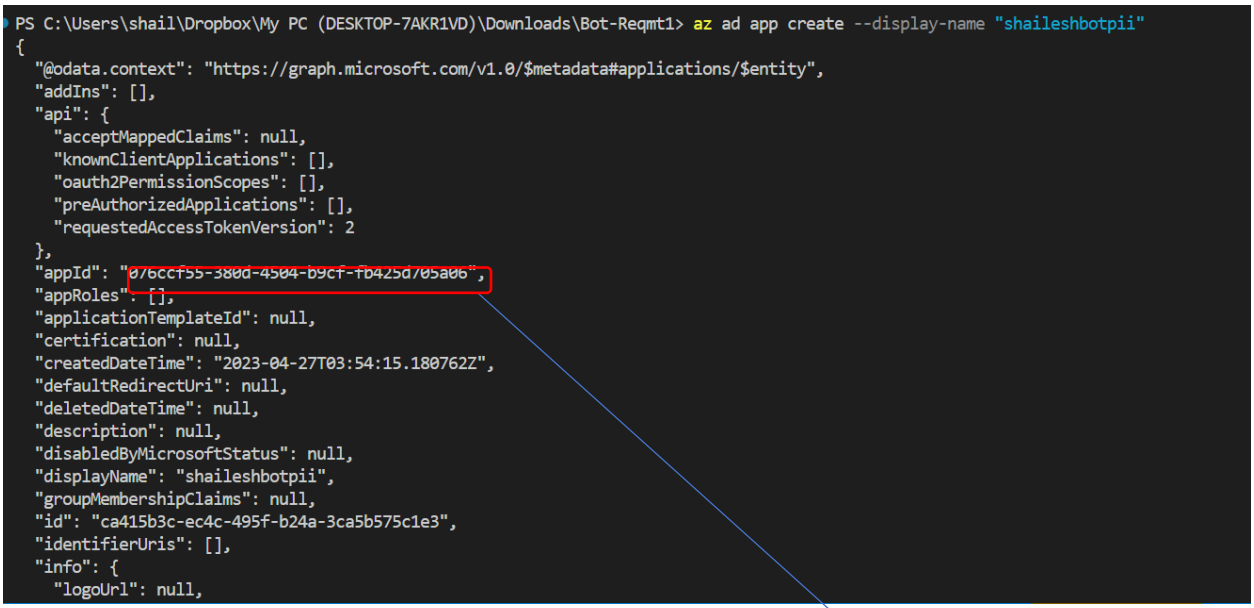
The subscription has to be the same id as in the output of the login code as shown above.

- Step 13

Create an app and give it your personalized name ‘shaileshbotpi’



The output will be as under



The app id will have to be noted.

- Step 14

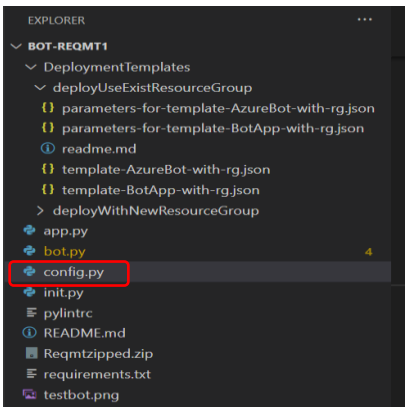
  Reset the app credentials.

```
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1> az ad app credential reset --id "076ccf55-380d-4504-b9cf-fb4
25d705a06"
The output includes credentials that you must protect. Be sure that you do not include these credentials in your code or check the c
redentials into your source control. For more information, see https://aka.ms/azadsp-cli
{
  "appId": "076ccf55-380d-4504-b9cf-fb425d705a06",
  "password": "dKK8Q~_3qDV1a0tM7Ry4nSNWzD.192XJOEWdKb5r",
  "tenant": "d02378ec-1688-46d5-8540-1c28b5f470f6"
}
```

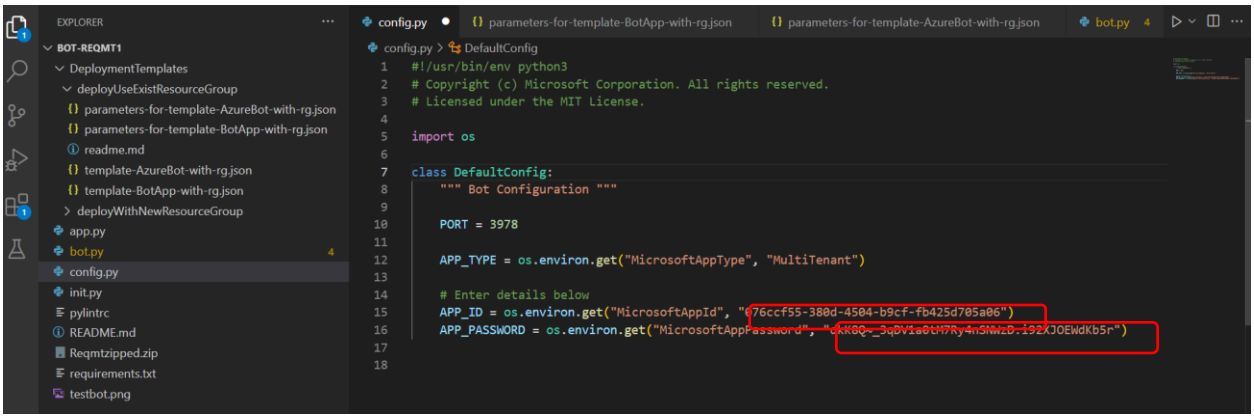
  The output of the credential reset code will give us the password

- Step 15

  In Explorer, go to config.py

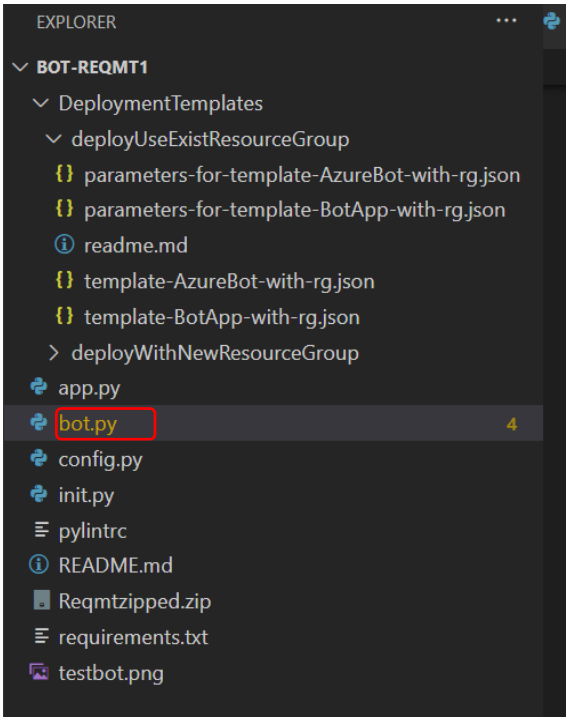


  Fill in the values for Appid and Password from Step 14 above and save the file.

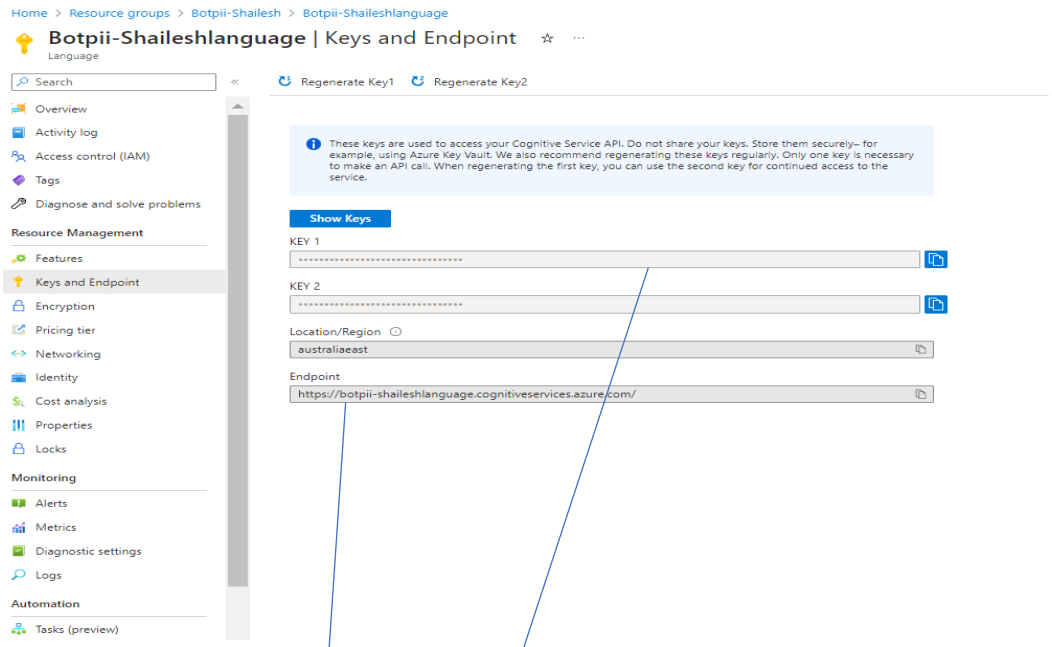


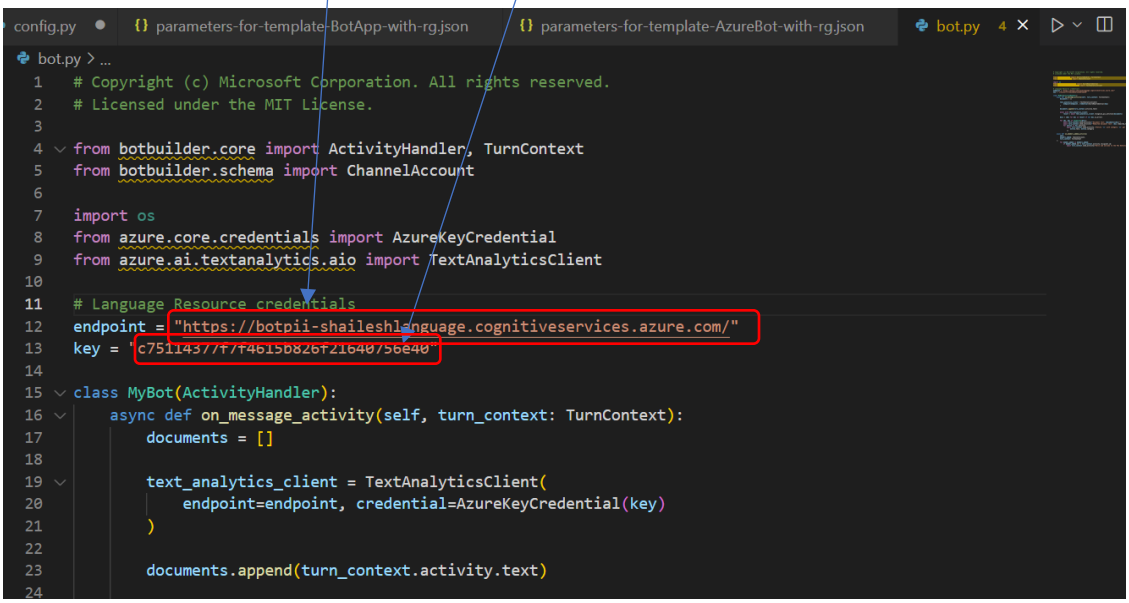
- Step 16

  Go to bot.py in the Explorer



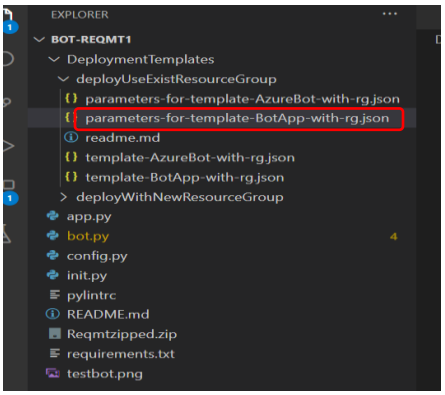
  Bring in the end points and key saved in Step 10 above in the Azure Portal for the Resource created



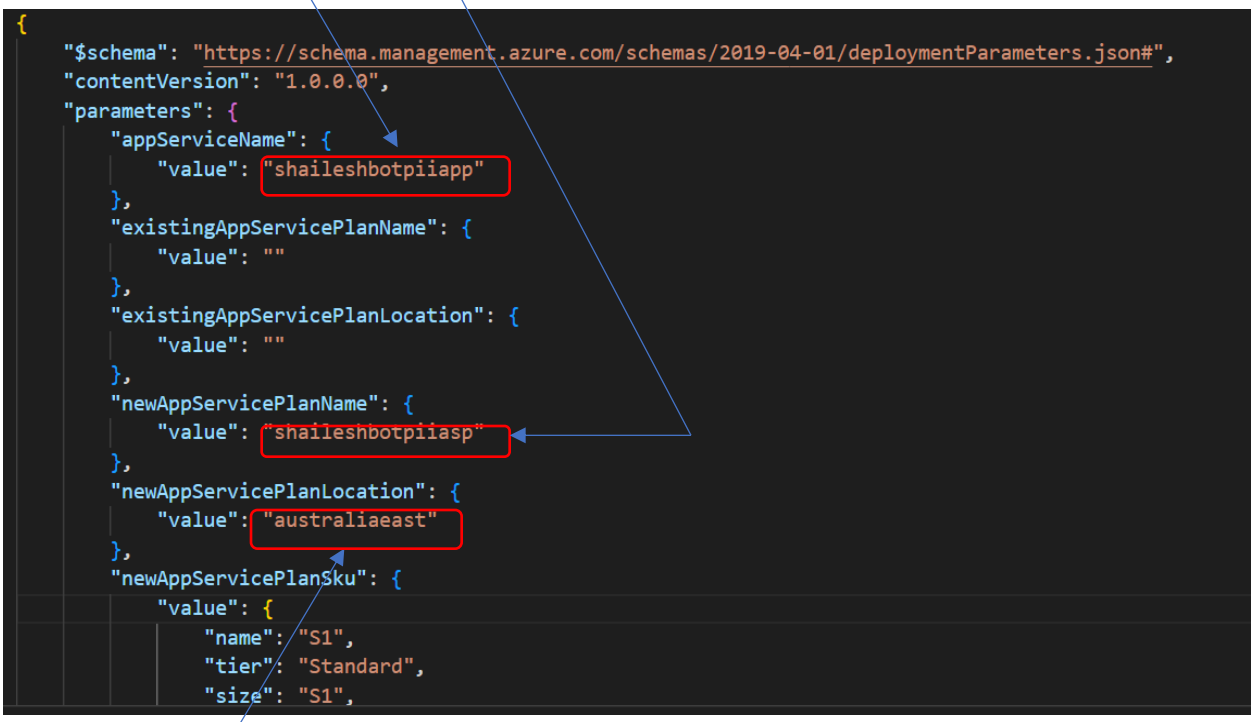


- Step 17

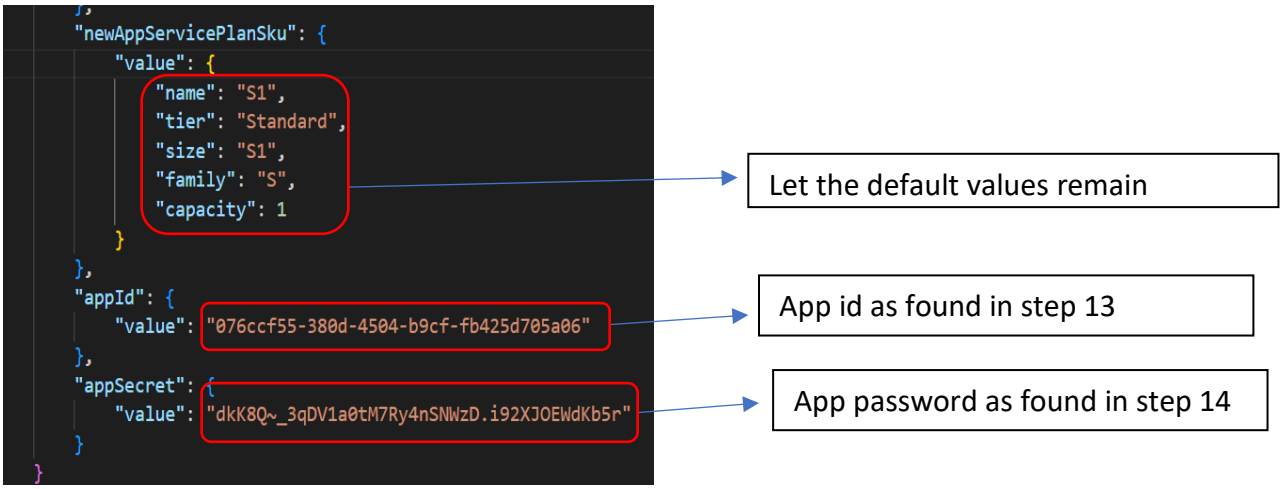
  Go to ‘Parameters for template Botapp with rg.json’



Name your app service and app service plan, any personalised name will do

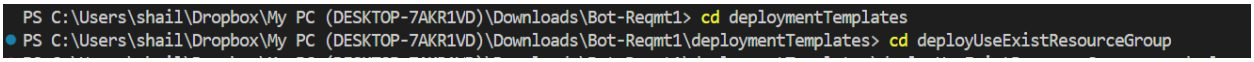


Name the location



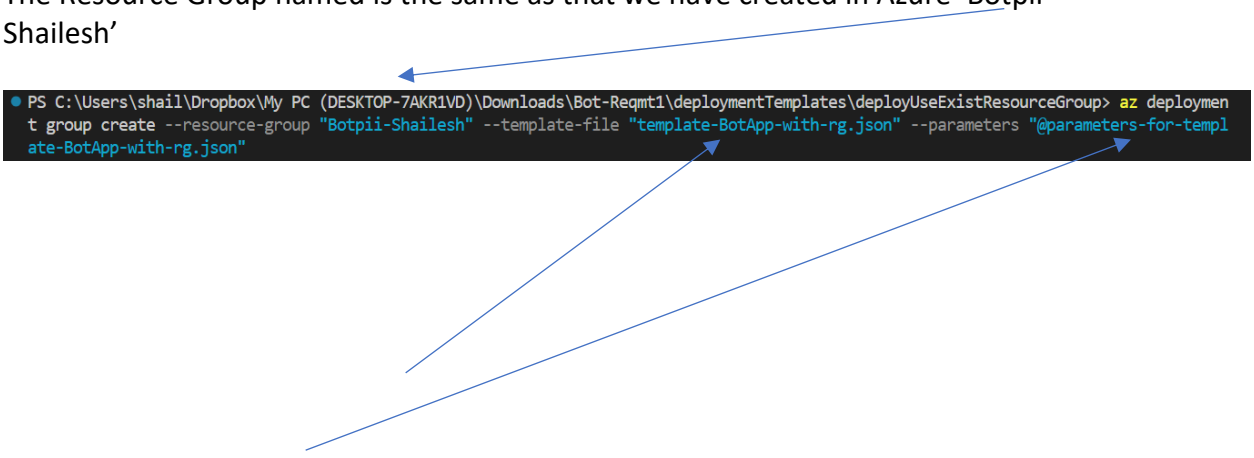
- Step 18

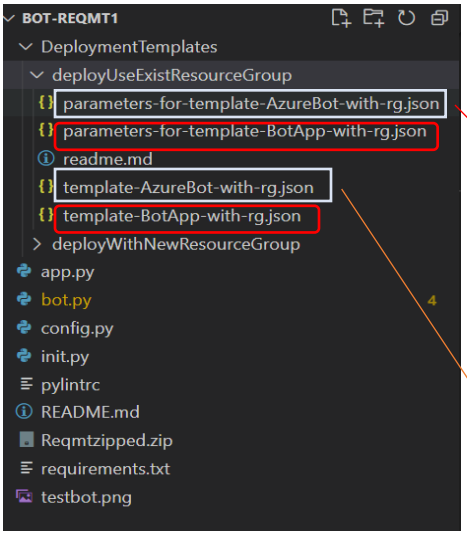
  We now change the directory of the terminal and go to the Deployment Terminal directory and within the Deployment Terminal Directory into the deploy use Exist Resource group directory.



- Step 19

  The Resource Group named is the same as that we have created in Azure ‘Botpii-Shailesh’

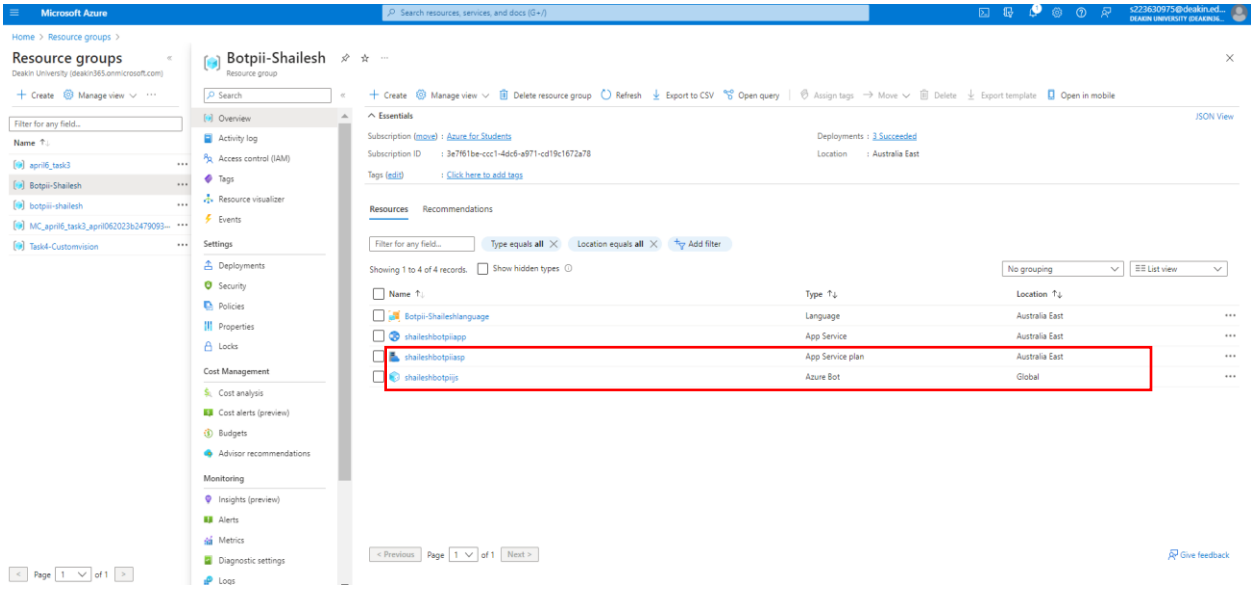




- Step 20

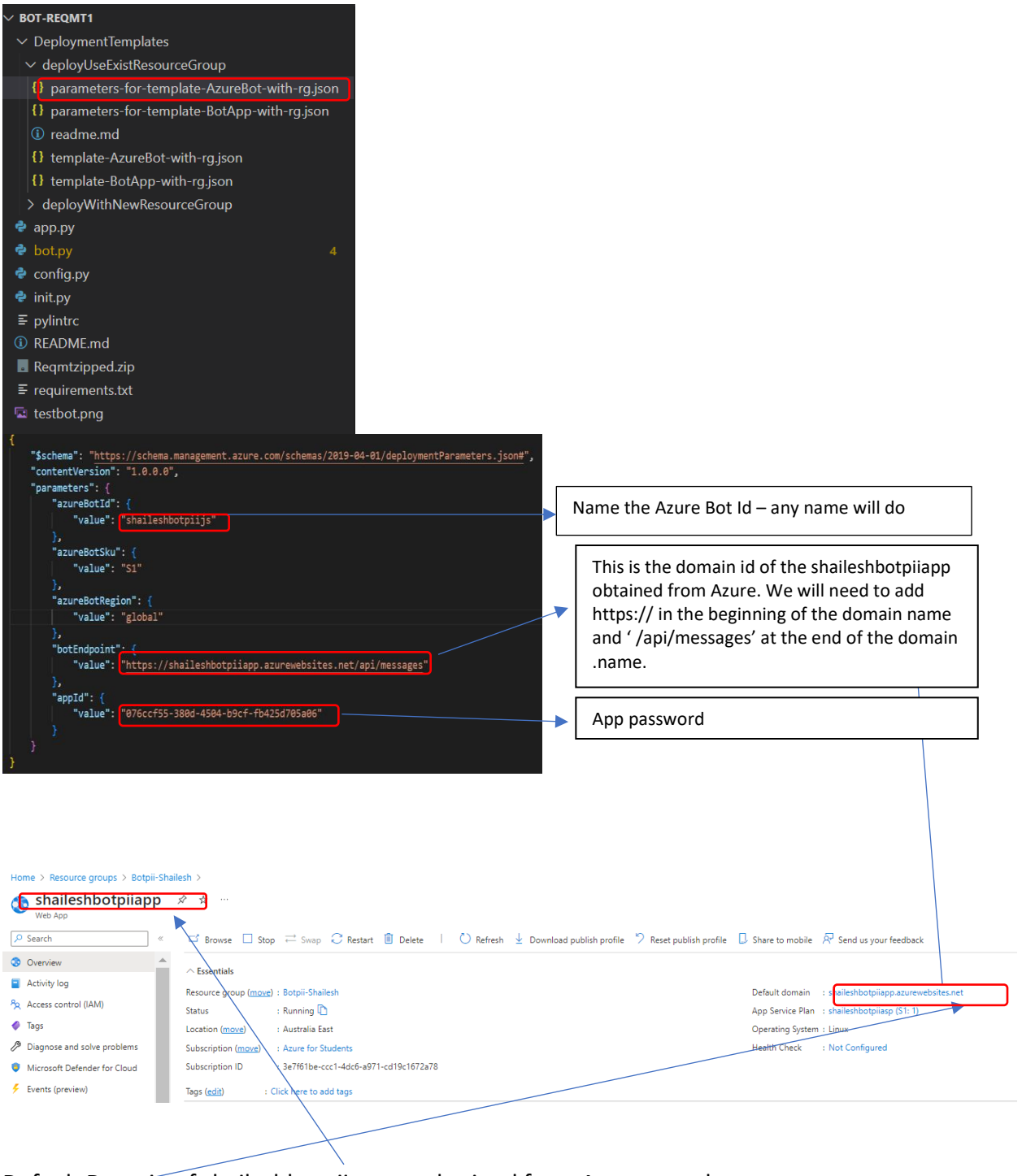
  The resources are deployed in Azure as an output to the above codes. Azure portal is checked

  App service and the App Service Plan are launched



- Step 21

  Go to ‘Parameters for template AzureBot with rg.json’



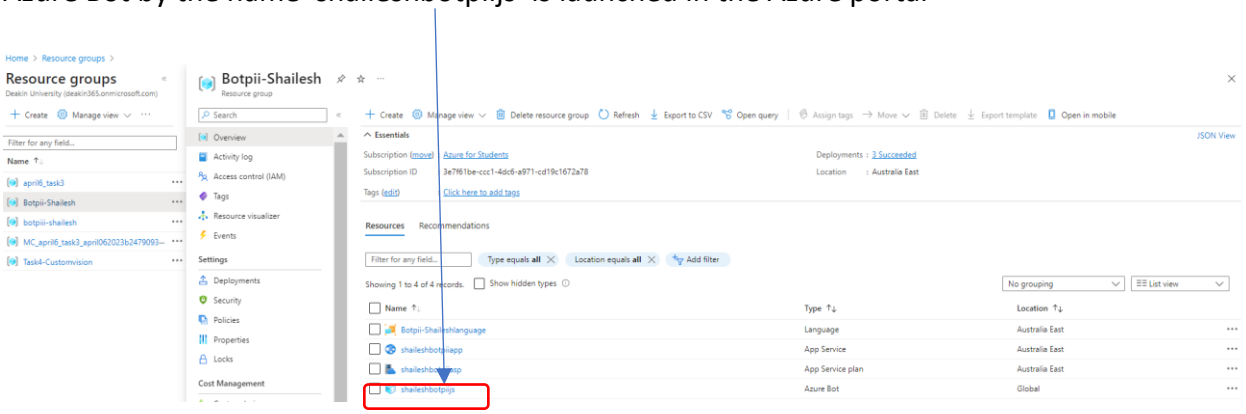
Default Domain of shaileshbotpiiapp as obtained from Azure portal.

- Step 22

The same steps as in Step 17 are repeated to deploy the AzureBot template file and AzureBot parameters

```
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1\deploymentTemplates\deployUseExistResourceGroup> az deployment group create --resource-group "Botpii-Shailesh" --template-file "template-AzureBot-with-rg.json" --parameters "@parameters-for-template-AzureBot-with-rg.json"
```

Azure Bot by the name ‘shaileshbotpiijs’ is launched in the Azure portal



- Step 23

The ending of the output of the code in step 22 will show ‘succeeded’


```
    ],
    "provisioningState": "Succeeded",
    "templateHash": "1921719378434239196",
    "templateLink": null,
    "timestamp": "2023-04-27T06:36:41.447102+00:00",
    "validatedResources": null
  },
  "resourceGroup": "Botpii-Shailesh",
  "status": 4,
  "status_text": "",
  "url": "https://shaileshbotpiiapp.scm.azurewebsites.net/api/deployments/latest"
}
```


- Step 24

Change the directory and come back to Bot-Reqmt1 directory

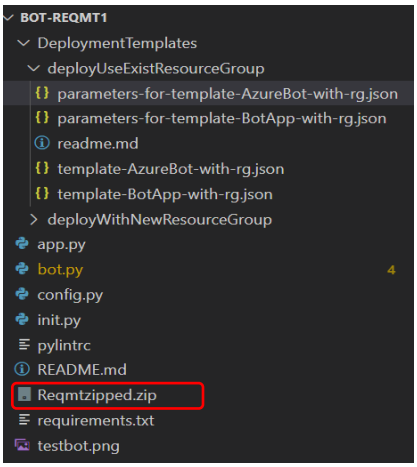
```
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1> cd..
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads> cd Bot-Reqmt1
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1> dir


    Directory: C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
da----         4/26/2023   4:26 PM                DeploymentTemplates
-a----         4/26/2023   3:14 PM           2887 app.py
-a----         4/27/2023   1:10 PM           1762 bot.py
-a----         4/27/2023   9:39 AM            487 config.py
-a----         4/26/2023   4:26 PM              0 init.py
-a----         4/26/2023   3:13 PM          15462 pylintrc
-a----         4/26/2023   3:32 PM           2827 README.md
-a----         4/27/2023   1:12 PM         132254 Reqmtzipped.zip
-a----         4/26/2023   3:33 PM            118 requirements.txt
-a----         4/26/2023   3:33 PM         119378 testbot.png
```

- Step 25

  Web app deployment config code is deployed

```
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1> az webapp deployment source config-zip --resource-group "Bot
pii-Shailesh" --name "shaileshbotpiiapp" --src "Reqmtzipped.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",
  "build_summary": {
    "errors": [],
    "warnings": []
  },
  "complete": true,
  "deployer": "Push-Deployer",
  "end_time": "2023-04-27T14:15:46.6653926Z",
  "id": "ebf92878-c30c-4b2d-8c71-a7897f693d21",
  "is_readonly": true,
  "is_temp": false,
  "last_success_end_time": "2023-04-27T14:15:46.6653926Z",
  "log_url": "https://shaileshbotpiiapp.scm.azurewebsites.net/api/deployments/latest/log",
  "message": "Created via a push deployment",
  "progress": "",
  "received_time": "2023-04-27T14:14:16.340311Z",
  "site_name": "shaileshbotpiiapp",
  "start_time": "2023-04-27T14:14:17.7604978Z",
  "status": 4,
  "status_text": "",
  "url": "https://shaileshbotpiiapp.scm.azurewebsites.net/api/deployments/latest"
}
```

Reqmtzipped.zip is the zipped file where all the pre-requisite resources are stored



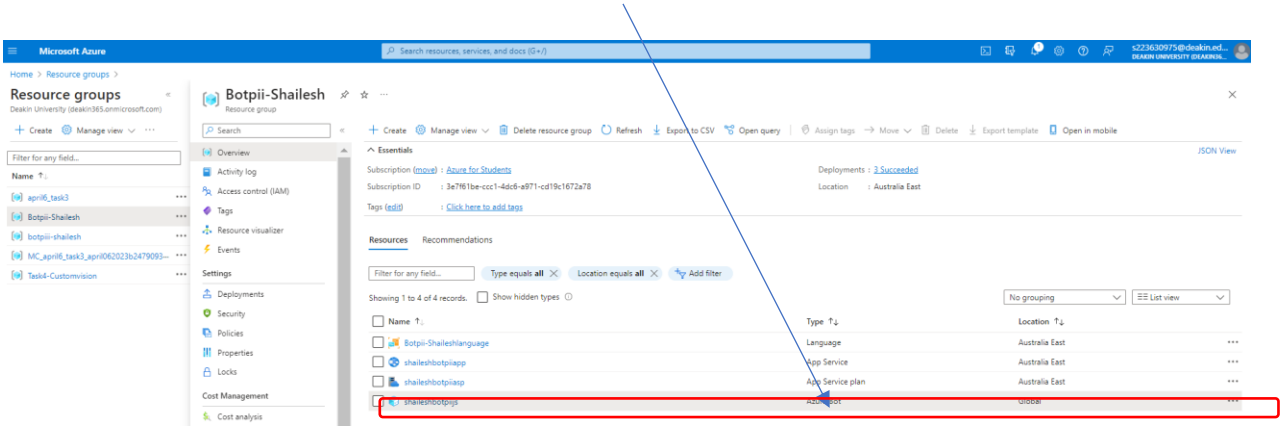
- Step 26

```
PS C:\Users\shail\Dropbox\My PC (DESKTOP-7AKR1VD)\Downloads\Bot-Reqmt1> az webapp deployment source config-zip --resource-group "Bot
pii-Shailesh" --name "shaileshbotpiiapp" --src "Reqmtzipped.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",
  "build_summary": {
    "errors": [],
    "warnings": []
  },
  "complete": true,
  "deployer": "Push-Deployer",
  "end_time": "2023-04-27T14:15:46.6653926Z",
  "id": "ebf92878-c30c-4b2d-8c71-a7897f693d21",
  "is_readonly": true,
  "is_temp": false,
  "last_success_end_time": "2023-04-27T14:15:46.6653926Z",
  "log_url": "https://shaileshbotpiiapp.scm.azurewebsites.net/api/deployments/latest/log",
  "message": "Created via a push deployment",
  "progress": "",
  "received_time": "2023-04-27T14:14:16.340311Z",
  "site_name": "shaileshbotpiiapp",
  "start_time": "2023-04-27T14:14:17.7604978Z",
  "status": 4,
  "status_text": "",
  "url": "https://shaileshbotpiiapp.scm.azurewebsites.net/api/deployments/latest"
```

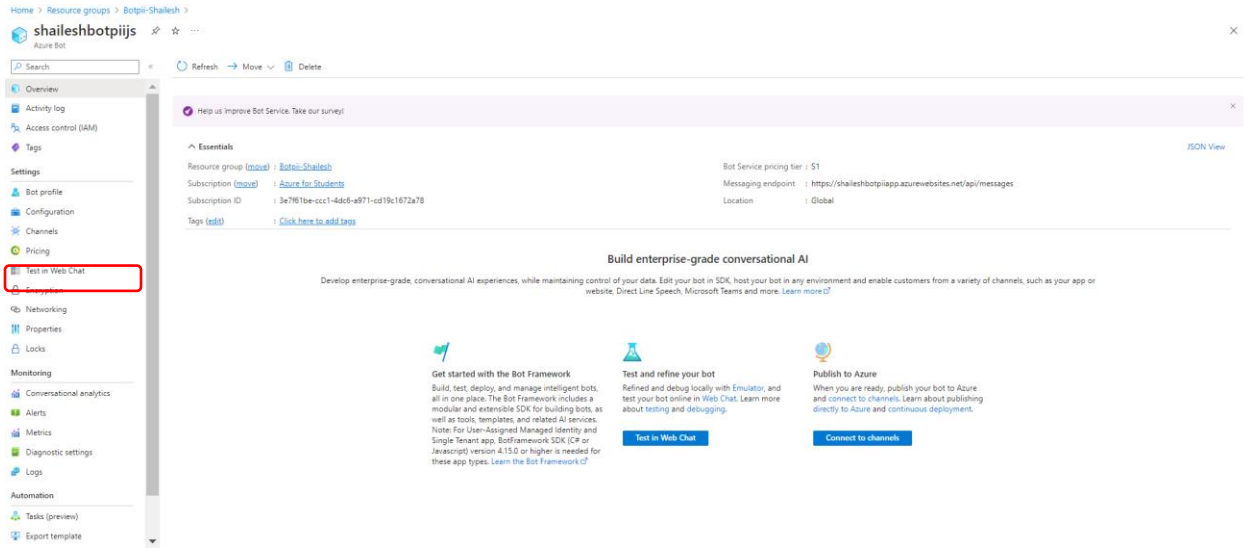
The app deployment is successful.

- Step 27

  We go to the Azure portal and launch the Azure Bot – ‘shaileshbotpiijs’

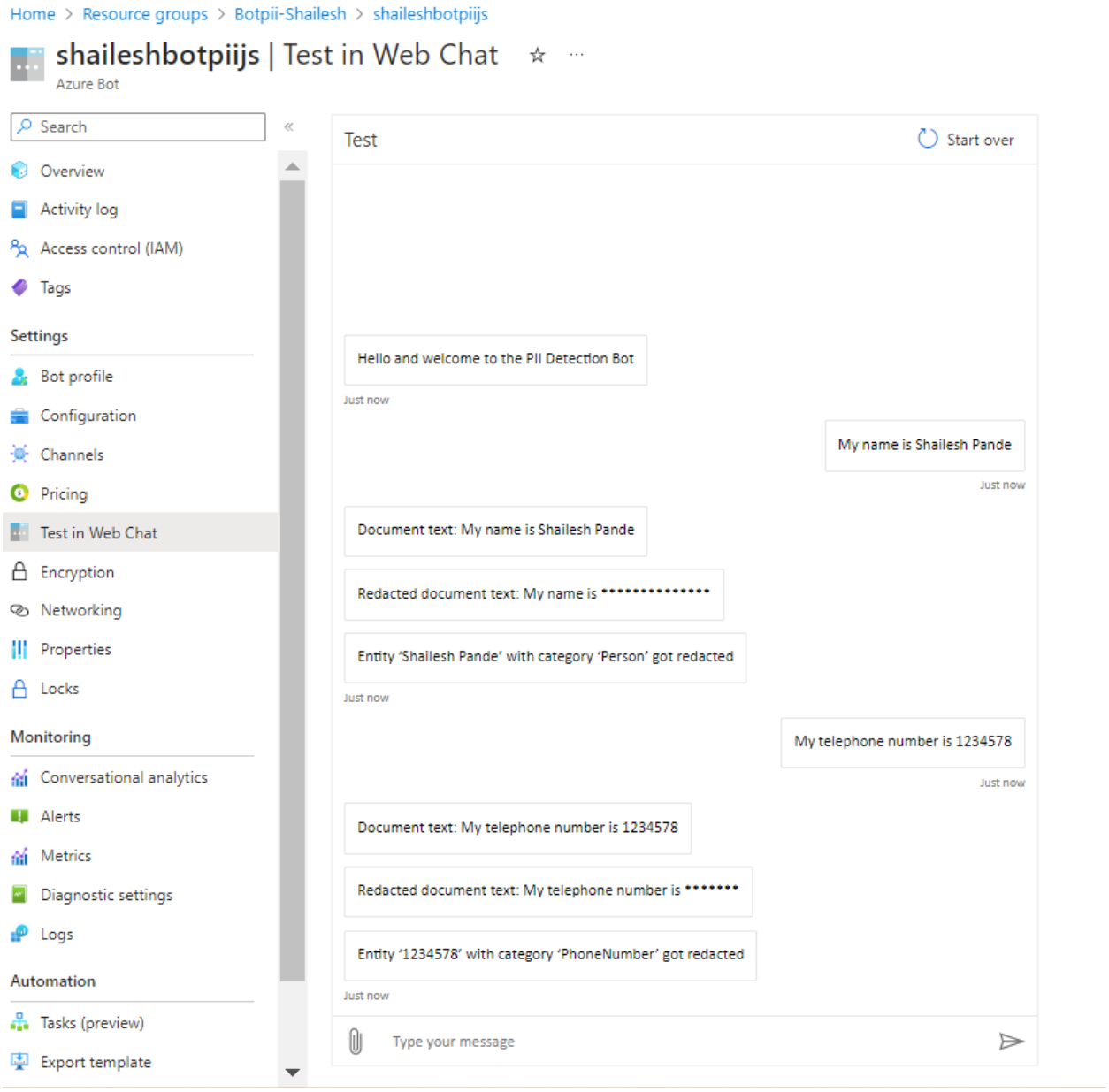


- Step 28



- Step 29

  The bot is launched and is redacting personal information


Home > Resource groups > Botpii-Shailesh > shaileshbotpiijs
shaileshbotpiijs | Test in Web Chat
Azure Bot
Search
Overview
Activity log
Access control (IAM)
Tags
Settings
Bot profile
Configuration
Channels
Pricing
Test in Web Chat
Encryption
Networking
Properties
Locks
Monitoring
Conversational analytics
Alerts
Metrics
Diagnostic settings
Logs
Automation
Tasks (preview)
Export template
Test
Start over
Hello and welcome to the PII Detection Bot
Just now
My name is Shailesh Pande
Just now
Document text: My name is Shailesh Pande
Redacted document text: My name is **********
Entity 'Shailesh Pande' with category 'Person' got redacted
Just now
My telephone number is 1234578
Just now
Document text: My telephone number is 1234578
Redacted document text: My telephone number is *******
Entity '1234578' with category 'PhoneNumber' got redacted
Just now
Type your message