

EXP NO 22. Create a Simple Web Application using Java or Python and host it in any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Platform as a Service (PaaS).

AIM:

To Create a Simple Web Application using Java or Python and host it in any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Platform as a Service (PaaS).

Procedure:

Procedure:

1. Create Flask App:

- Create a folder FlaskApp.
 - Create app.py with:

```
from flask import Flask  
  
app = Flask(__name__)  
  
@app.route('/')  
def home():  
    return "Hello! Flask App on Azure PaaS"  
  
if __name__ == '__main__':  
    app.run()
```
- Create requirements.txt:
- ```
flask
gunicorn
```

**2. Log in to Azure Portal:**

- Go to <https://portal.azure.com>
- Sign in.

**3. Create Web App (PaaS):**

- Click **Create a Resource → Web App**
- Fill details:
  - Resource Group: PaaS-Flask-RG
  - Name: flask-paas-demo
  - Runtime: Python 3.x
  - Region: nearest
- Click **Create**.

#### 4. **Deploy App:**

- Compress the folder as .zip.
- In Azure Portal → your Web App → **Deployment** → **ZIP Deploy**
- Upload the .zip file.

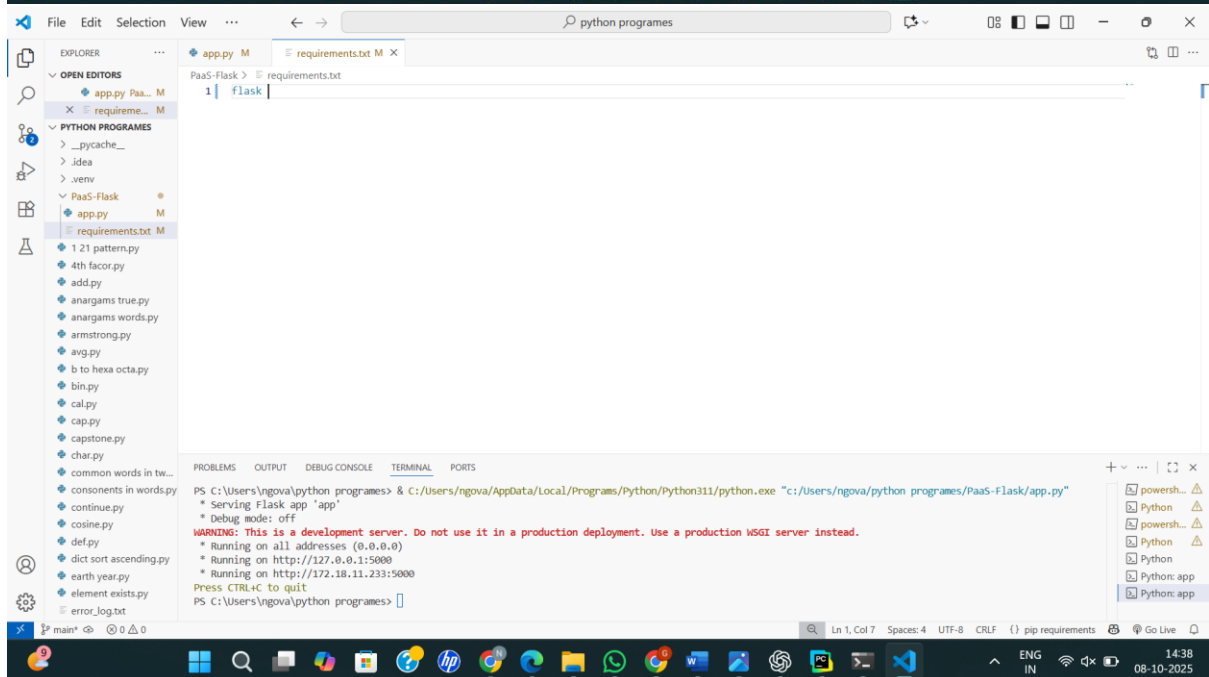
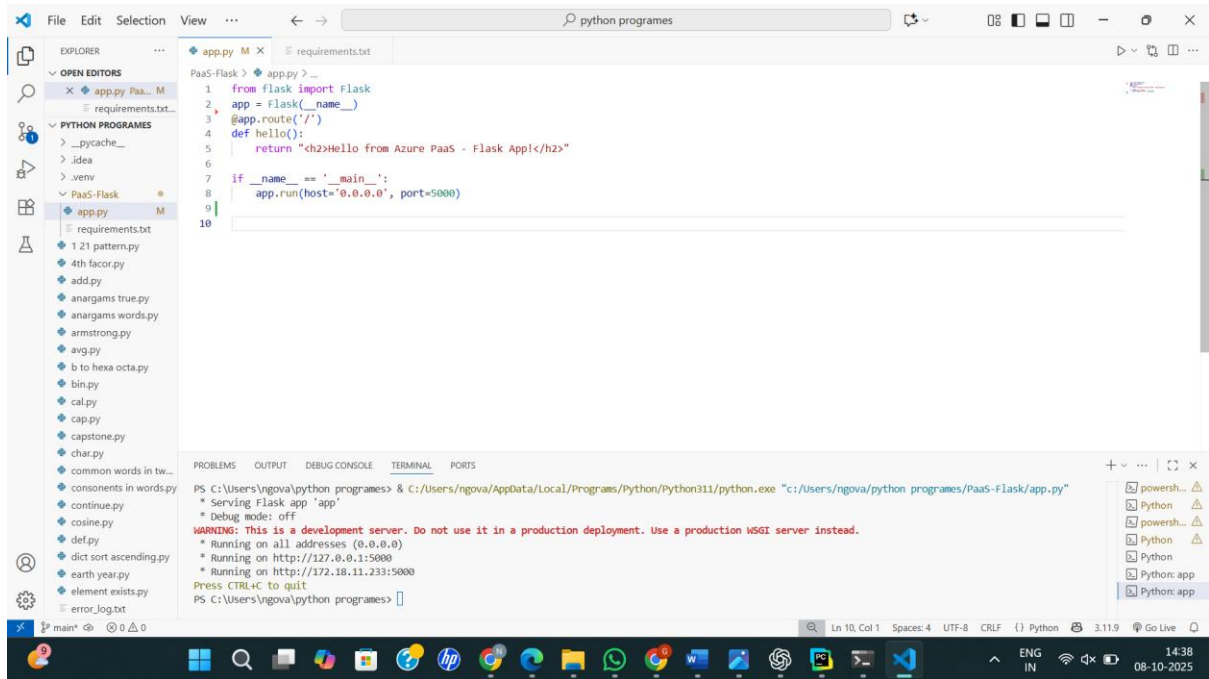
#### 5. **Test the App:**

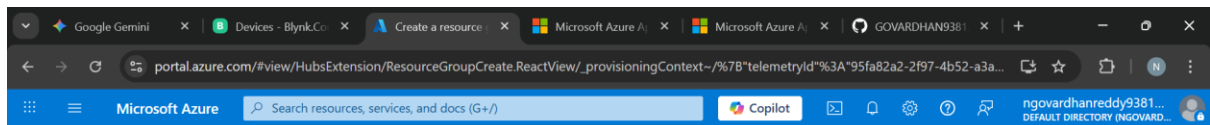
- Click **Browse** in the Web App Overview
- Open the link, you will see:
- Hello! Flask App on Azure PaaS

#### 6. **Cleanup (Optional):**

- Delete the Resource Group to stop charges.

Design:





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## Create a resource group



Basics Tags **Review + create**

[Automation Link](#)

### Basics

Subscription Azure for Students  
Resource group name PaaS-Flask-RG  
Region East Asia

### Tags

None

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## Create Web App



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App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

### Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*   
Resource Group \*   
[Create new](#)

### Instance Details

Name

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## Create Web App

Subscription \*

Resource Group \*   
[Create new](#)

Instance Details

Name   
-hxdhc8aqevhdcby.eastasia-01.azurewebsites.net

☒ Secure unique default hostname on. [More about this update](#)

Publish \* ☒ Code ☐ Container

Runtime stack \*   
⚠ Python 3.9 will reach EOL on 10/31/2025 [Learn More](#)

Operating System \* ☒ Linux ☐ Windows

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## Resource groups

Default Directory (ngovardhanreddy9381@gmail996.onmicrosoft.com)

[+ Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#) [Open query](#) [Assign tags](#) [Group by none](#)

Create new resource group [version of Browse experience. Click here to access the old experience.](#)

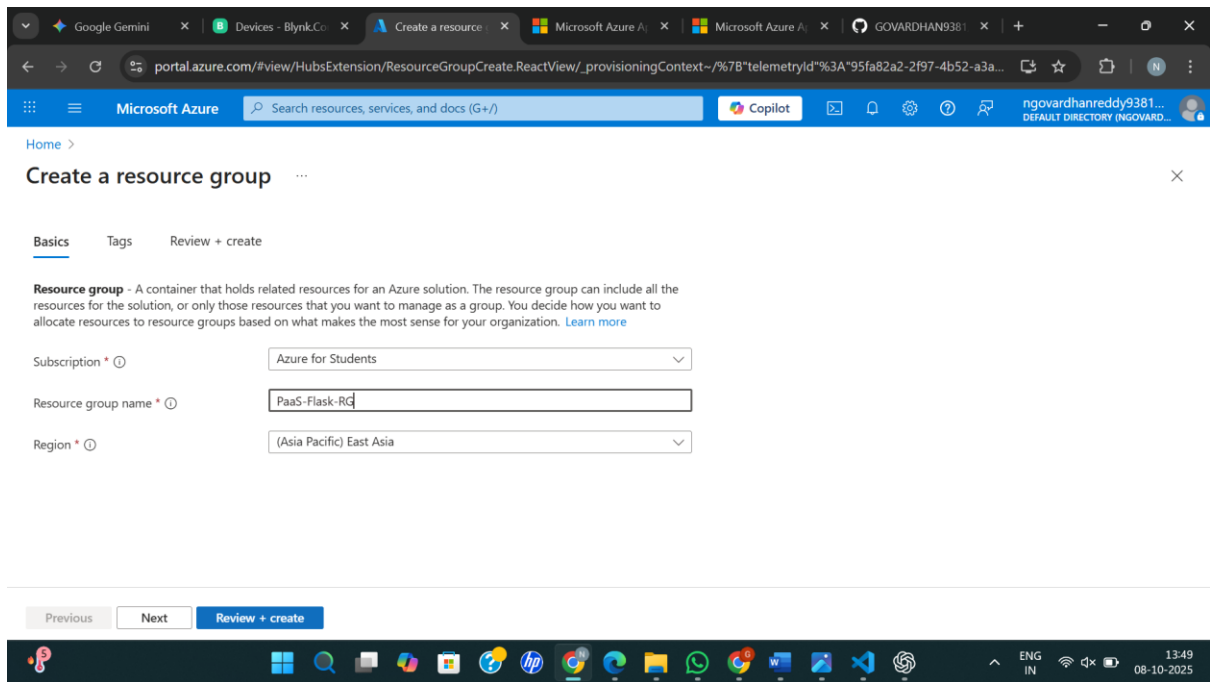
[Subscription equals all](#) [Location equals all](#) [+ Add filter](#)

| <input type="checkbox"/> | Name ↑                                    | Subscription           | Location      |
|--------------------------|-------------------------------------------|------------------------|---------------|
| <input type="checkbox"/> | <a href="#">DefaultResourceGroup-CID</a>  | ... Azure for Students | Central India |
| <input type="checkbox"/> | <a href="#">DefaultResourceGroup-EA</a>   | ... Azure for Students | East Asia     |
| <input type="checkbox"/> | <a href="#">DefaultResourceGroup-null</a> | ... Azure for Students | Canada East   |
| <input type="checkbox"/> | <a href="#">IaaS-Demo-RG</a>              | ... Azure for Students | East Asia     |
| <input type="checkbox"/> | <a href="#">MyWebRG</a>                   | ... Azure for Students | Central India |
| <input type="checkbox"/> | <a href="#">NetworkWatcherRG</a>          | ... Azure for Students | East Asia     |
| <input type="checkbox"/> | <a href="#">One Demo RG</a>               | ... Azure for Students | East Asia     |

Showing 1 - 8 of 8. Display count:

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<https://portal.azure.com/#blade/HubsExtension/ResourceGroupCreate.ReactView?sitename=my-pass-demo-app-dqgvczesfudhhg5.eastasia-01>



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## Create Web App

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Summary

**Web App** by Microsoft

**Free sku**  
Estimated price - Free

Basic authentication for this app is currently disabled and may impact deployments. Click to learn more.

Details

|                |                                      |
|----------------|--------------------------------------|
| Subscription   | 75e1e16e-428e-4402-84c9-4163a4486ab1 |
| Resource Group | PaaS-Flask-RG                        |
| Name           | my-pass-flask-app                    |

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## my-pass-flask-app | Advanced Tools

Web App

ad

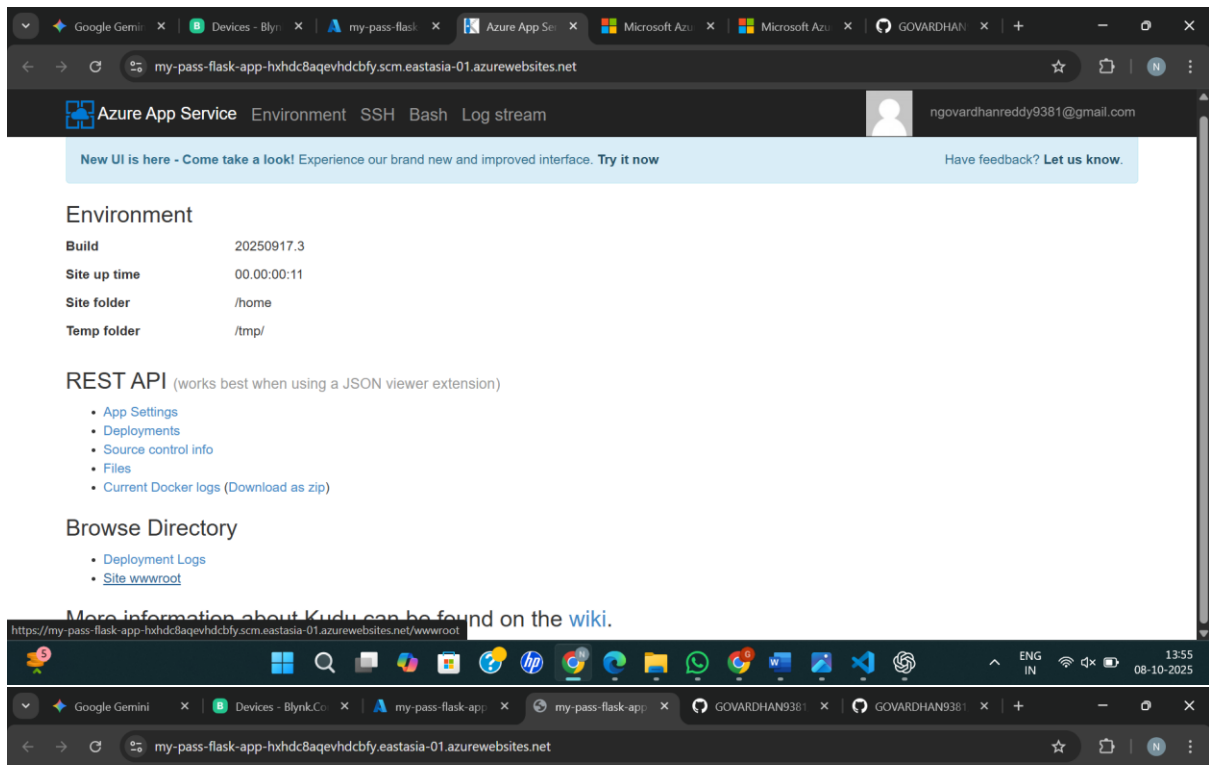
- Performance
  - Load Testing
- Development Tools
  - Advanced Tools**
- Monitoring
  - Advisor recommendations

**Advanced Tools**

Advanced Tools provides a collection of developer oriented tools and extensibility points for your App Service Apps. [Learn more](#)

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<https://portal.azure.com/#@ngovardhanreddy9381gmail996.onmicrosoft.com/resource/subscriptions/75e1e16e-428e-4402-84c9-4163a4486ab1/resourcegroups/PaaS-Flask-RG/providers/Microsoft.Web/sites/my-pass-flask-app/kudu>



**Hello from Azure PaaS - Flask App!**

## RESULT:

Created a Simple Web Application using Java or Python and host it in any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Platform as a Service (PaaS).