

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:**

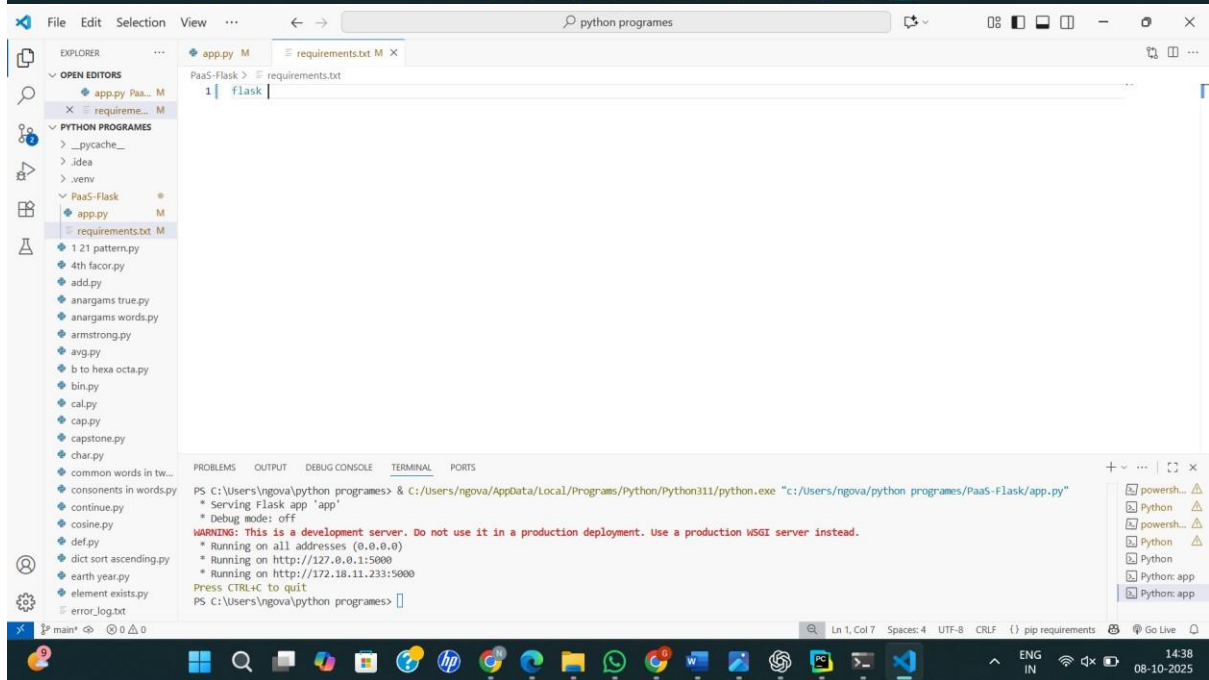
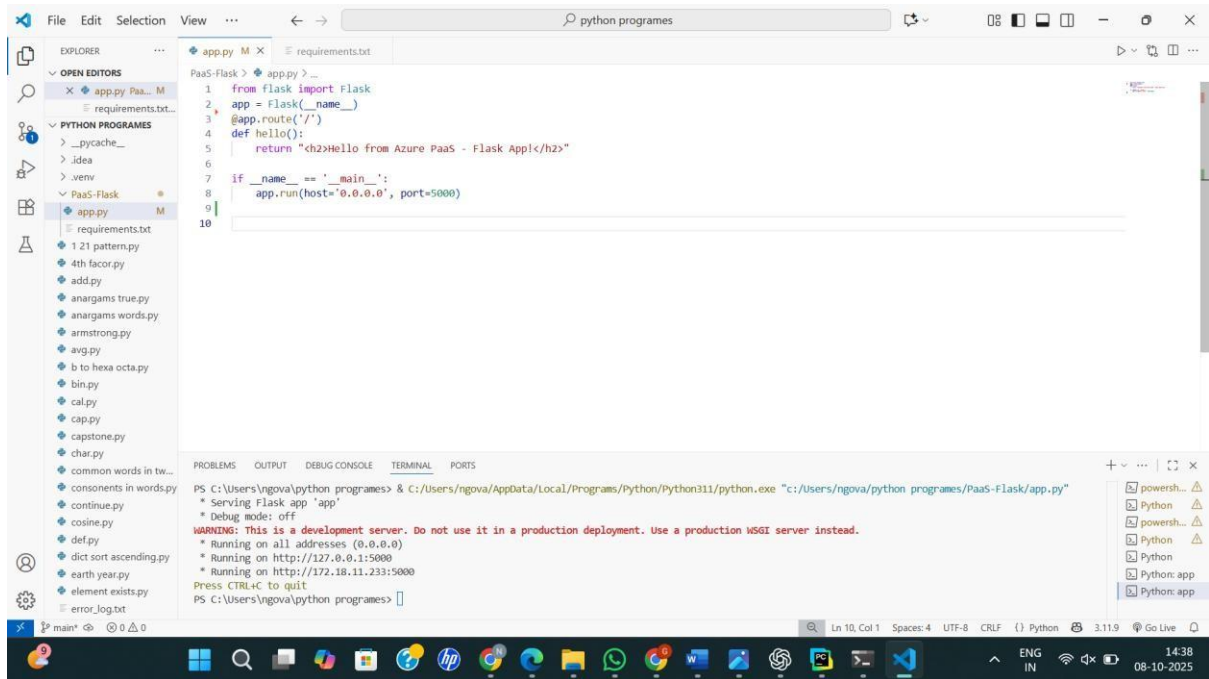
- Click **Browse** in the Web App Overview ○ Open the link, you will see:

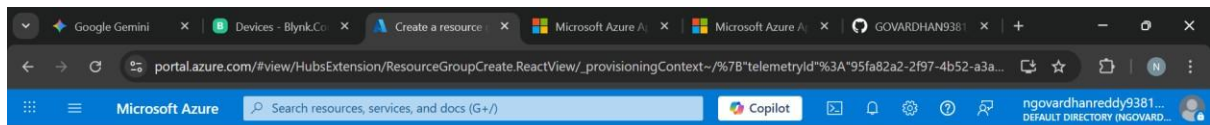
- Hello! Flask App on Azure PaaS

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

- Delete the Resource Group to stop charges.

Design:





Home >

## Create a resource group



Basics Tags **Review + create**

[Automation Link](#)

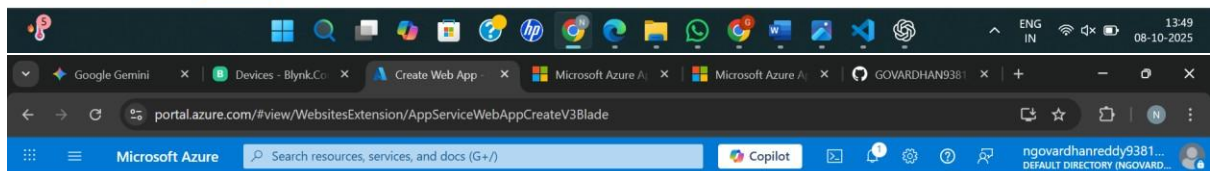
### Basics

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

### Tags

None

[Previous](#) [Next](#) [Create](#)



Home >

## Create Web App



Basics Database Deployment Networking Monitor + secure Tags **Review + create**

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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Home >

## Create Web App

Subscription \*

Resource Group \*   
[Create new](#)

**Instance Details**

Name   
-hxhdc8aqevhdcby.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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Home >

## 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.](#)

Filter for any field... [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-dqgvczstuhhig5.eastasia-01>

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portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/\_provisioningContext~/%7B%22telemetryId%3A%2295fa82a2-2f97-4b52-a3a...

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Home >

Create a resource group

BasicsTagsReview + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Subscription \* ⓘ

Azure for Students

Resource group name \* ⓘ

PaaS-Flask-RG

Region \* ⓘ

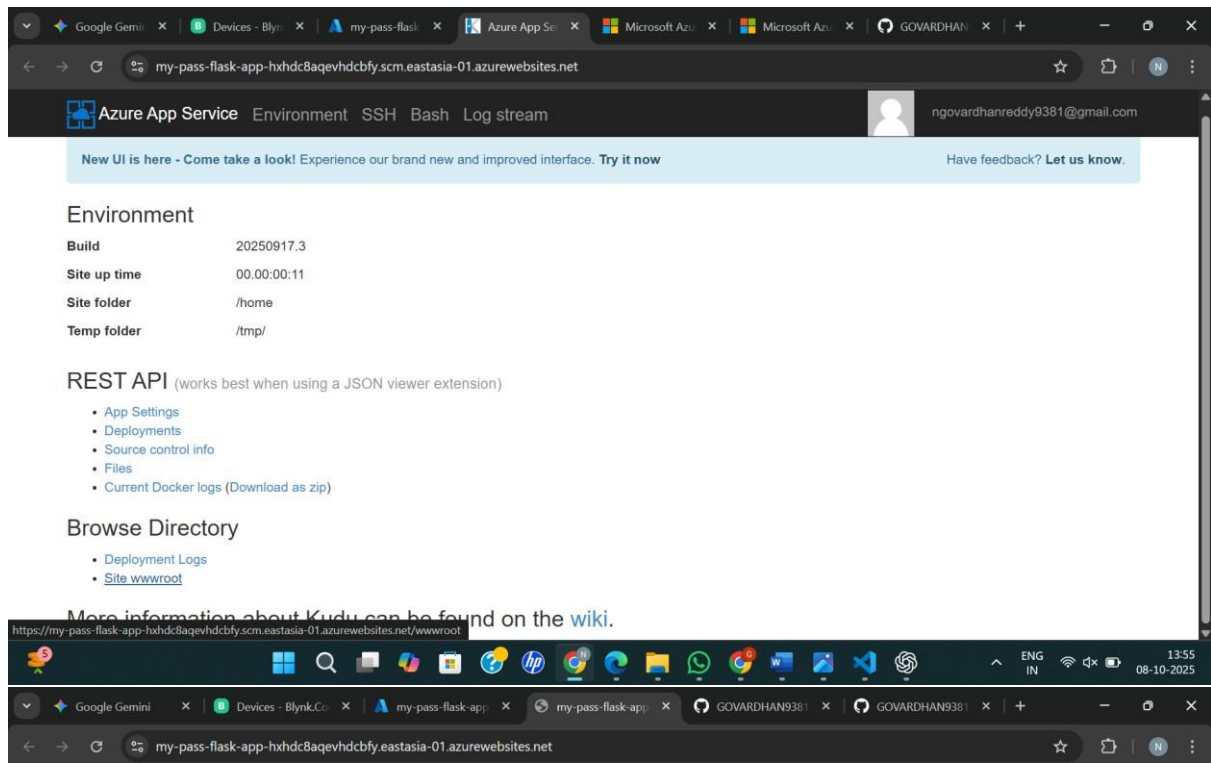
(Asia Pacific) East Asia

PreviousNextReview + create

ENG IN13:4908-10-2025

Microsoft Azure portal interface showing the "Create Web App" wizard. The wizard is at the "Review + create" step. The summary shows a "Web App by Microsoft" with a "Free sku" and an estimated price of "Free". A warning message states: "Basic authentication for this app is currently disabled and may impact deployments. Click to learn more." The details section shows the subscription ID "75e1e16e-428e-4402-84c9-4163a4486ab1", the resource group "PaaS-Flask-RG", and the app name "my-pass-flask-app". Navigation buttons include "Create", "< Previous", "Next >", and "Download a template for automation".

Microsoft Azure portal interface showing the "my-pass-flask-app | Advanced Tools" page. The page displays a sidebar with navigation options: Performance (Load Testing), Development Tools, Advanced Tools (selected), and Monitoring (Advisor recommendations). The main content area shows the "Advanced Tools" section, which provides a collection of developer-oriented tools and extensibility points for App Service Apps. A URL bar at the bottom shows the full path to the Advanced Tools page: <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).