

PLACEMENT EMPOWERMENT PROGRAM

Cloud Computing & DevOps Center

Writing a simple Python Flask application,
deploying it on an Azure Virtual Machine.

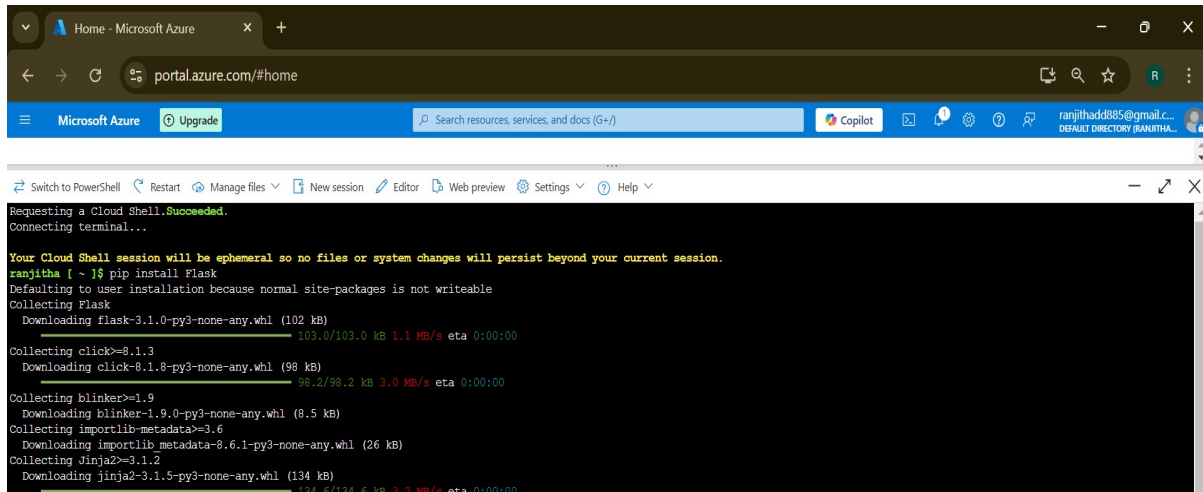
Name: Ranjitha Prabha P

Dept: CSE

Step-by-step process:

Step 1: Install Flask and write the following cmd in Azure Bash.

Cmd: pip install Flask

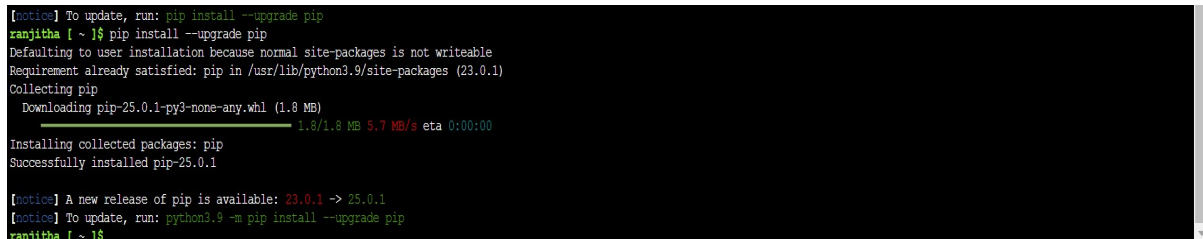


```
Requesting a Cloud Shell. Succeeded.
Connecting terminal...

Your Cloud Shell session will be ephemeral so no files or system changes will persist beyond your current session.
ranjitha [ ~ ]$ pip install Flask
Defaulting to user installation because normal site-packages is not writeable
Collecting Flask
  Downloading flask-3.1.0-py3-none-any.whl (102 kB)
    103.0/103.0 kB 1.1 MB/s eta 0:00:00
Collecting click>=8.1.3
  Downloading click-8.1.8-py3-none-any.whl (98 kB)
    98.2/98.2 kB 3.0 MB/s eta 0:00:00
Collecting blinker>=1.9
  Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
Collecting importlib-metadata>=3.6
  Downloading importlib_metadata-8.6.1-py3-none-any.whl (26 kB)
Collecting Jinja2>=3.1.2
  Downloading jinja2-3.1.5-py3-none-any.whl (134 kB)
    134.5/134.5 kB 3.2 MB/s eta 0:00:00
```

NOTE: If pip doesn't work

run: pip install --upgrade pip



```
[notice] To update, run: pip install --upgrade pip
ranjitha [ ~ ]$ pip install --upgrade pip
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pip in /usr/lib/python3.9/site-packages (23.0.1)
Collecting pip
  Downloading pip-25.0.1-py3-none-any.whl (1.8 MB)
    1.8/1.8 MB 5.7 MB/s eta 0:00:00
Installing collected packages: pip
Successfully installed pip-25.0.1

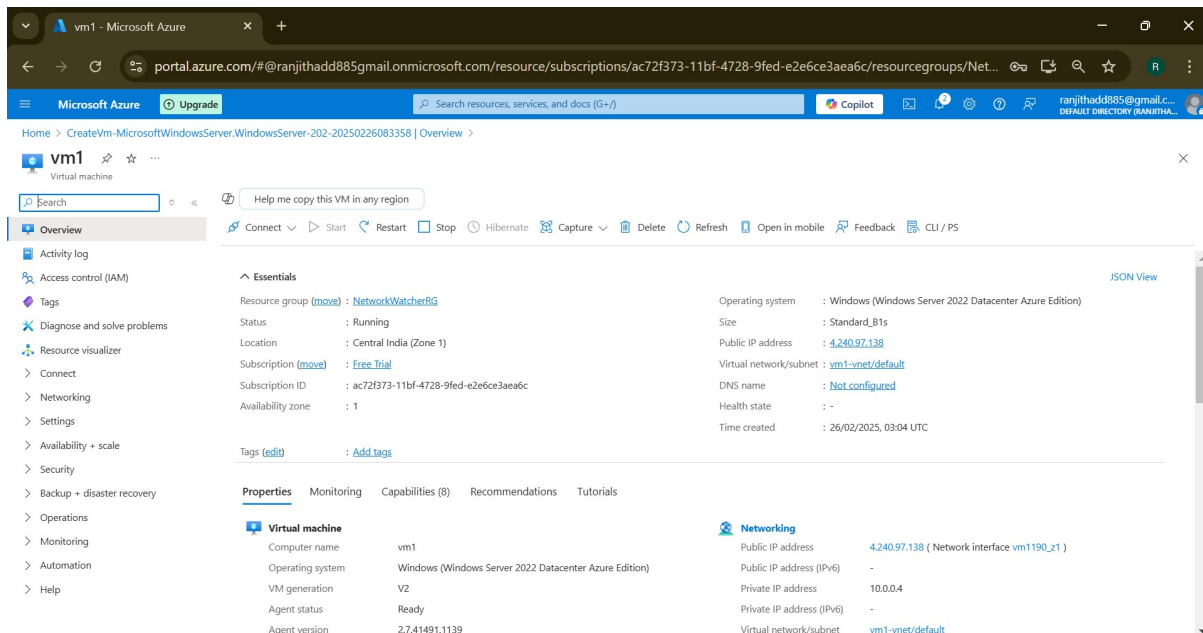
[notice] A new release of pip is available: 23.0.1 -> 25.0.1
[notice] To update, run: python3.9 -m pip install --upgrade pip
ranjitha [ ~ ]$
```

Step 2: Create a Flask App. You can use any editor. Enter this code in a file and save it with .py extension.



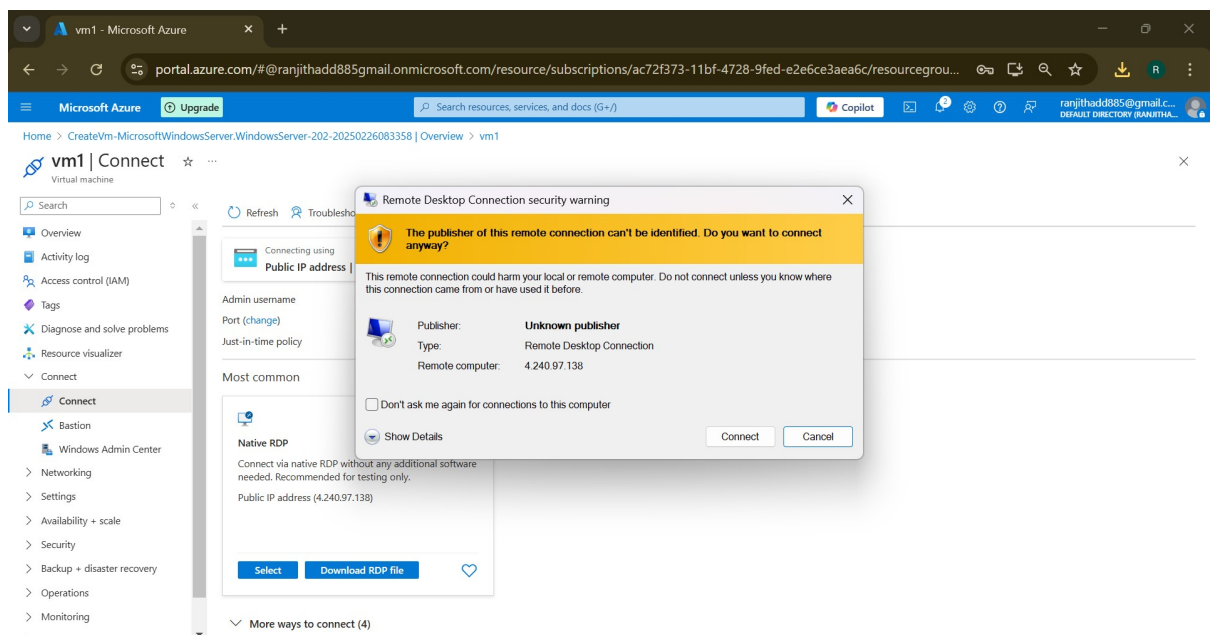
```
File Edit Selection View Go Run ...
Welcome flaskapp.py X
flaskapp.py
1 from flask import flask
2 app=Flask(__name__)
3 @app.route('/')
4 def home():
5     return "Good Morning!"
6
7 if __name__ == '__main__':
8     app.run(host='0.0.0.0', port=80)
9
```

Step 3: Create an Azure VM.



Step 4:

- Connect your VM via RDP. Go to the Overview of your VM and click on connect, then download the RDP file.
- Once downloaded open the file and click on “CONNECT”.



Step 5: Enter your username and password for connection.

