



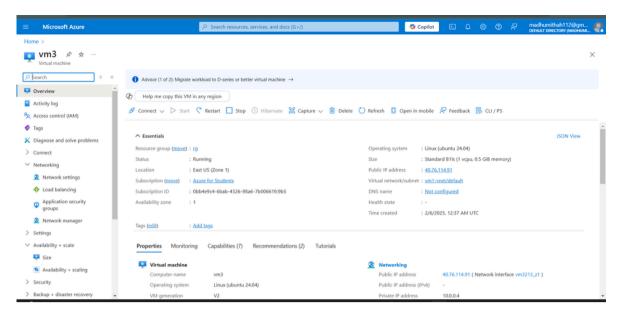
Placement Empowerment Program Cloud Computing and DevOps Centre

Deploy a Web Application on the CloudWrite a Python Flask application and deploy it on your cloud VM. Configure the firewall to allow HTTP traffic.

Name:Madhumitha.H Department:ADS



Step 1: create a new vm in the azure portal



Step 2:

connect to your vm using ssh in terminal

command:ssh username@vm-public-ip

connect to it using your password or ssh key

```
PS C:\Users\madhu> ssh madhu@40.76.114.91
madhu@40.76.114.91's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-azure x86_64)
```

Step 3:

jr

Install Python and Flask on Your VM SSH into your Azure VM and install Python (if it's not already installed) and Flask

```
madhulva3:-$ sudo apt update && sudo apt upgrade -y
sudo apt install python3 python3-pip python3-venv -y
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
```

Step 4:

create your folder: mkdir myflaskapp then navigate to it using cd myflaskapp command

install flask using : pip install flask

Create Your Flask Application File
On your VM, create a new Python file for the app, e.g., madhuapp.py.
Use any editor (like vim or nano) to paste the Flask code above into this file.

Then run it using command: python madhuapp.py

```
from flask import Flask

app = Flask(__name__)

@app.route('/')
def home():
    return "Hello, your Flask app is working on Azure!"

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000)
```

```
(venv) madhu@vm3:-/myflaskapp$ vim madhuapp.py
(venv) madhu@vm3:-/myflaskapp$ [New] Ill, 2188 written
(venv) madhu@vm3:-/myflaskapp$ python madhuapp.py

* Serving Flask app 'madhuapp'
* Debug mode: off
MARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on all addresses (0.0.0)

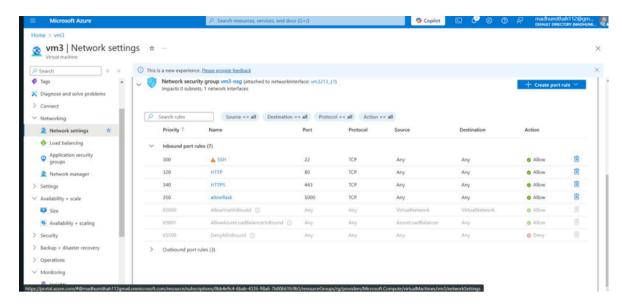
* Running on http://127.0.0.1:5000

* Running on http://10.0.0.4:5000

Press CTRL+C to quit
python madhuapp.py

**C(venv) madhu@vm3:-/myflaskapp$ python madhuapp.py
```

Step 5:



run the python madhuapp.py command again and you can view your vm running on : http://<your-vm-public-ip>:5000

