by ACI.

5. Remove the ACI container after verifying the deployment to stop billing.

Practical Task 2: Configure Environment Variables in ACI via Azure Portal

Requirements:

- 1. Modify your Docker image to read configuration values from environment variables, ensuring minimal environmental complexity.
- 2. Reuse the ACI instance from Task 1 to deploy the container and specify the necessary environment variables.
- 3. Verify that the application is correctly using the environment variables by checking its output.
- 4. Remove the ACI container after verifying that the application correctly uses the environment variables.

Practical Task 3: Scale Out with Azure Container Instances via Azure Portal

Wellcome, ACI v2! #text 124.48 × 18

```
| Console | Cons
```

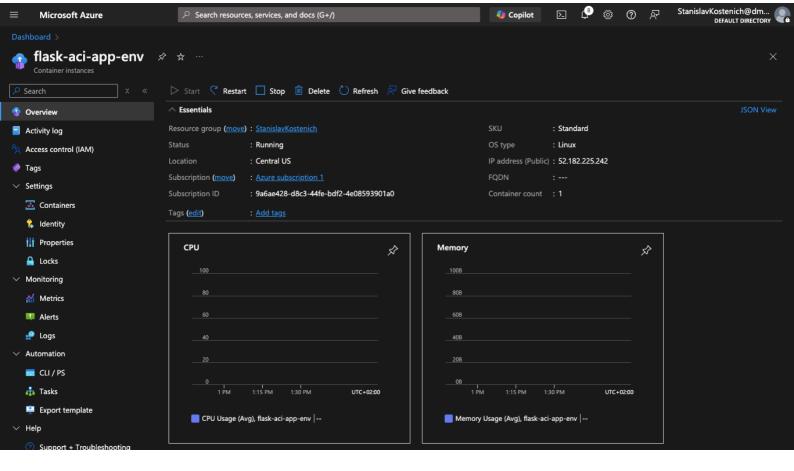
sks-MacBook-Air:04 Compute tasts sk\$ curl -i http://52.182.225.242:5000

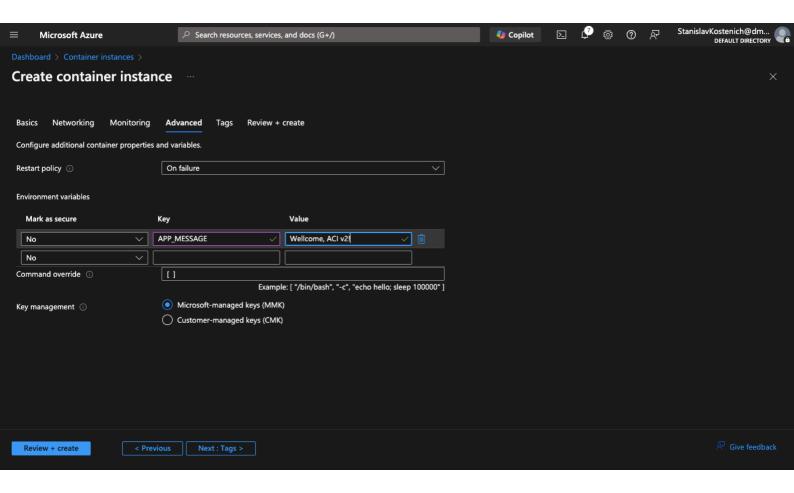
HTTP/1.1 200 OK

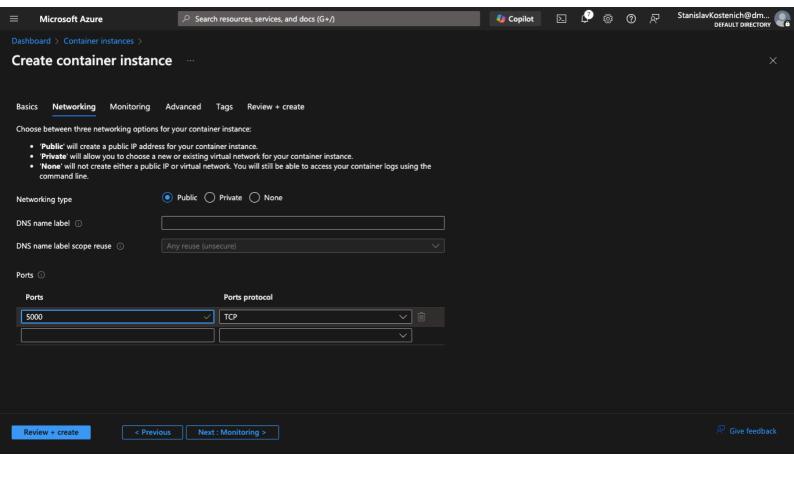
Server: Werkzeug/3.1.3 Python/3.9.21
Date: Mon, 27 Jan 2025 11:55:09 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 17

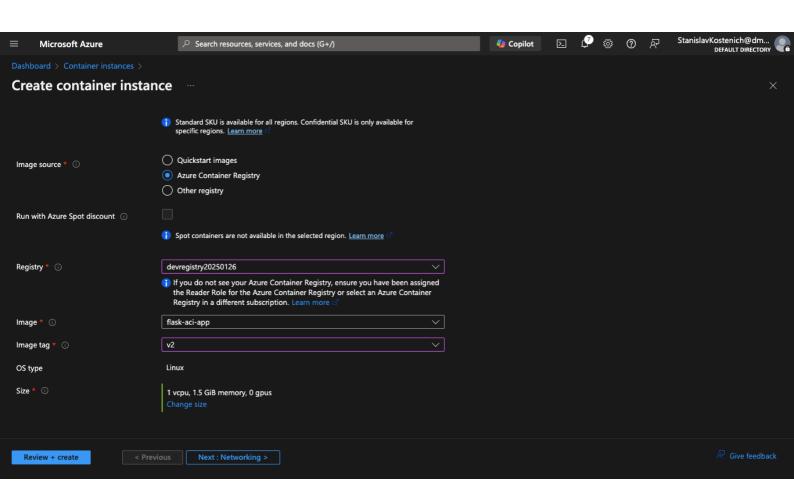
Connection: close

Wellcome, ACI v2!sks-MacBook-Air:04 Compute tasts sk\$ ■









```
stanislav [ ~ ]$ ACR_NAME=devregistry20250126
stanislav [ ~ ]$ az acr build \
  --registry $ACR_NAME.azurecr.io \
  --image flask-aci-app:v2 \
  --file Dockerfile .
The login server endpoint suffix '.azurecr.io' is automatically omitted. Packing source code into tar to upload...
Uploading archived source code from '/tmp/build_archive_a98195bf571640e5a89093f48b26dd5b.tar.gz'...
Sending context (21.514 KiB) to registry: devregistry20250126...
Queued a build with ID: cj2
Waiting for an agent...
2025/01/27 11:28:59 Downloading source code...
2025/01/27 11:29:00 Finished downloading source code 2025/01/27 11:29:01 Using acb_vol_3c070328-66e7-4540-8e9f-52843cfb2686 as the home volume
2025/01/27 11:29:01 Setting up Docker configuration...
2025/01/27 11:29:01 Successfully set up Docker configuration
2025/01/27 11:29:01 Logging in to registry: devregistry20250126.azurecr.io
2025/01/27 11:29:02 Successfully logged into devregistry20250126.azurecr.io
2025/01/27 11:29:02 Executing step ID: build. Timeout(sec): 28800, Working directory: '', Network: ''
2025/01/27 11:29:02 Scanning for dependencies...
2025/01/27 11:29:02 Successfully scanned dependencies
2025/01/27 11:29:02 Launching container with name: build
Sending build context to Docker daemon 95.74kB
Step 1/6: FROM python:3.9-slim
3.9-slim: Pulling from library/python
af302e5c37e9: Pulling fs layer
1da0723265ec: Pulling fs layer
4f4cbla24c66: Pulling fs layer
```

🔁 Switch to PowerShell 🦿 Restart 😘 Manage files 🗸 📑 New session 🧷 Editor 🖒 Web preview 🔅 Settings 🗸 🕜 Help 🗸

Microsoft Azure

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Copilot

StanislavKostenich@dm

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```
# Copy application files
Copy app.py .

# Install Flask
RUN pip install flask

# Expose the application port
EXPOSE 5000

# Run the application
CMD ["python", "app.py"]
```

1 FROM python:3.9-slim

4 WORKDIR /app

2 3 # Set working directory

```
app = Flask(_name__)

@app.route("/")

def home():

# Read the message from the environment variable
message = os.getenv("APP_MESSAGE", "Hello, Azure Container Instances!")
return message

if __name__ == "__main__":
    app.run(host="0.0.0", port=5000)

app.run(host="0.0.0", port=5000)
```

from flask import Flask

import os