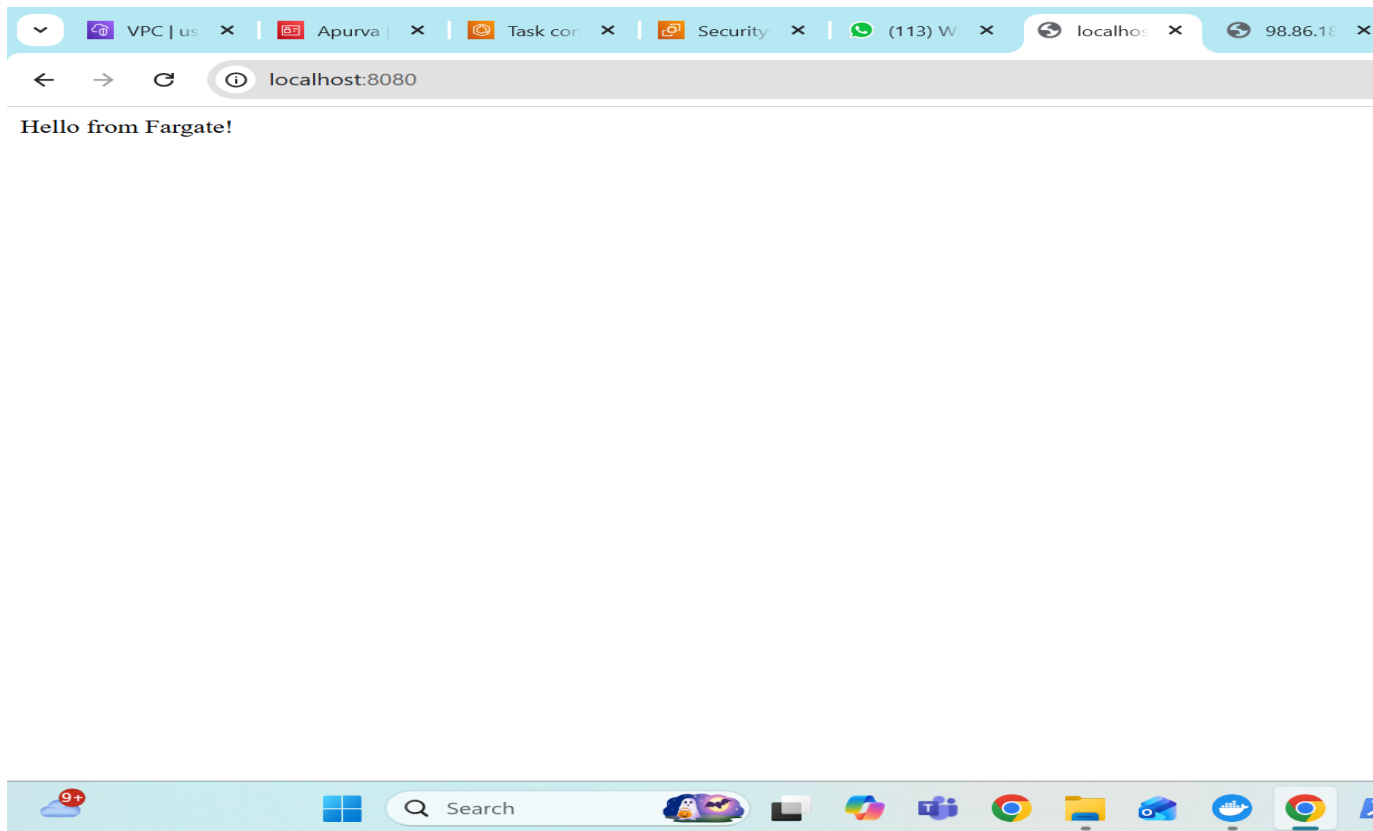


Screenshot of running container locally

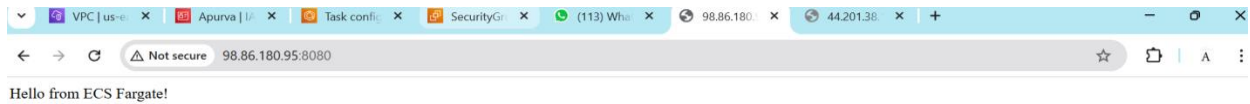
<http://localhost:8080>



Screenshot of deployed service on the cloud (with URL visible)

<http://98.86.180.95:8080>

```
C:\Users\apurv\my-flask-app>docker run -p 80:80 myapp
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8080
* Running on http://172.17.0.2:8080
Press CTRL+C to quit
```



Dockerfile code

```
FROM python:3.9-slim
WORKDIR /app
COPY . /app
RUN pip install flask
EXPOSE 5000
CMD ["python", "app.py"]
```

requirement.txt,app.py,Dockerfile in one directory my-flask-app

```
(venv) (base) PS C:\Users\apurva\my-flask-app> dir

Directory: C:\Users\apurva\my-flask-app

Mode                LastWriteTime         Length Name
----                -
d-----          31-10-2025         11:24     venv
-a-----          31-10-2025         11:36     0 .dockerignore
-a-----          31-10-2025         11:15    210 app.py
-a-----          31-10-2025         11:34     0 Dockerfile.txt
-a-----          31-10-2025         11:24     7 requirements.txt
```

ECS Service Running

The screenshot displays the AWS Management Console for the Amazon Elastic Container Service (ECS). The left sidebar shows the navigation menu with options like Clusters, Namespaces, Task definitions, and Account settings. The main content area shows the 'Tasks' tab for the 'flask-cluster'. It lists 3 tasks with their respective IDs, statuses, and health states. The first task is 'Running', while the other two are 'Stopped'. The console also includes filters for tasks, desired status, and launch type, along with buttons for 'Manage tags', 'Stop', and 'Run new task'.

Task	Last status	Desired st...	T...	Health sta...	Created at
3ecf423889234c8dae7ab...	Running	Running	flas...	Unknown	41 minutes ago
2e62a2e92dbf4abf6bfe...	Stopped ...	Stopped	flas...	Unknown	2 hours ago
51ddba7589de432b8509...	Stopped ...	Stopped	flas...	Unknown	57 minutes ago

ECS Task Definition (container, image, port)

The screenshot shows the Amazon Elastic Container Service (ECS) console. The breadcrumb navigation is: Amazon Elastic Container Service > Task definitions > flask-task > Revision 6 > Containers. The left sidebar shows the 'Task definitions' link is selected. The main content area displays the 'flask-task:6' task definition. At the top right, there are buttons for 'Deploy', 'Actions', and 'Create new revision'. The 'Overview' tab is active, showing a grid of key-value pairs: ARN (arn:aws:ecs:us-east-1:424056759435:task-definition/flask-task:6), Status (ACTIVE), Time created (October 31, 2025, 19:38 (UTC+5:30)), App environment (Fargate), Task role (-), Task execution role (ecsTaskExecutionRole), Operating system/Architecture (Linux/X86_64), Network mode (awsvpc), and Fault injection (Turned off). Below the grid are tabs for 'Containers', 'JSON', 'Task placement', 'Volumes (0)', 'Requires attributes', and 'Tags'. The 'Containers' tab is selected. The bottom of the console shows the AWS footer with copyright information and links to Privacy, Terms, and Cookie preferences.

flask-task:6			
ARN	Status	Time created	App environment
arn:aws:ecs:us-east-1:424056759435:task-definition/flask-task:6	ACTIVE	October 31, 2025, 19:38 (UTC+5:30)	Fargate
Task role	Task execution role	Operating system/Architecture	Network mode
-	ecsTaskExecutionRole	Linux/X86_64	awsvpc
Fault injection	Turned off		

Uploaded Image in ECR

The screenshot shows the Amazon Elastic Container Registry (ECR) console. The breadcrumb navigation is: Amazon ECR > Private registry > Repositories > my-flask-app > sha256:f99f65ebf4777abd9a0e36e69b691e6a02aa55612cecbf3029453001d3950b91. The left sidebar shows the 'Private registry' section is expanded, with 'Repositories' selected. The main content area displays the details for the 'my-flask-app' repository. The 'Details' section shows 'Image tags' (latest), 'URI' (424056759435.dkr.ecr.us-east-1.amazonaws.com/my-flask-app:latest), and 'Digest' (sha256:f99f65ebf4777abd9a0e36e69b691e6a02aa55612cecbf3029453001d3950b91). The 'General information' section shows 'Artifact type' (Image Index), 'Repository' (my-flask-app), 'Pushed at' (October 31, 2025, 16:12:28 (UTC+05.5)), 'Last recorded pull time' (October 31, 2025, 16:17:09 (UTC+05.5)), and 'Size (MB)' (59.13). The bottom of the console shows the AWS footer with copyright information and links to Privacy, Terms, and Cookie preferences.

Details		
Image tags		
latest		
URI		
424056759435.dkr.ecr.us-east-1.amazonaws.com/my-flask-app:latest		
Digest		
sha256:f99f65ebf4777abd9a0e36e69b691e6a02aa55612cecbf3029453001d3950b91		
General information		
Artifact type	Repository	Pushed at
Image Index	my-flask-app	October 31, 2025, 16:12:28 (UTC+05.5)
Last recorded pull time	Size (MB)	
October 31, 2025, 16:17:09 (UTC+05.5)	59.13	

Logs of Tasks running

The screenshot shows the Amazon Elastic Container Service (ECS) console. The breadcrumb navigation is: Amazon Elastic Container Service > Clusters > flask-cluster > Tasks > 3ecf423889234c8dae7ab71e11327383 > Logs. The left sidebar shows the ECS navigation menu. The main content area is titled 'Logs (14+)' and shows a list of log events for the 'flask-container' task. The logs are filtered by 'Since 1 hour ago'. The log entries are as follows:

Timestamp (UTC+05:30)	Message	Container
October 31, 2025, 16:17	* Running on all addresses (0.0.0.0)	flask-container
October 31, 2025, 16:17	* Running on http://127.0.0.1:8080	flask-container
October 31, 2025, 16:17	* Running on http://10.0.1.101:8080	flask-container
October 31, 2025, 16:17	^[[33mPress CTRL+C to quit^[[0m	flask-container
October 31, 2025, 16:17	* Serving Flask app 'app'	flask-container
October 31, 2025, 16:17	* Debug mode: off	flask-container

ECS Task Details → Network tab showing ENI ID + Public IP

The screenshot shows the Amazon ECS console 'Configuration' page for the task '3ecf423889234c8dae7ab71e11327383'. The left sidebar shows the ECS navigation menu. The main content area is titled 'Configuration' and shows the following details:

Operating system/Architecture	Capacity provider	ENI ID	Public IP
Linux/X86_64	-	eni-00f97330ca52681f9	98.86.180.95

Additional details shown:

- CPU | Memory: .25 vCPU | .5 GB
- Platform version: 1.4.0
- Launch type: Fargate
- Task definition: revision flask-task:2
- Task group
- Network mode: awsvpc
- Subnet: subnet-03ab15be18b5447eb
- Private IP: 10.0.1.101
- MAC address: 02:e3:8b:81:19:47

Below the configuration, there is a section for 'Container details for flask-container' with the following details:

Image URI	Essential	Command
424056759435.dkr.ecr.us-east-1.amazonaws.com/my-flask-app:latest	Yes	-

Flask app running locally on port 8080

```
[notice] A new release of pip is available: 23.2.1 -> 25.3
[notice] To update, run: python.exe -m pip install --upgrade pip
(venv) (base) PS C:\Users\apurv\my-flask-app> python app.py
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8080
* Running on http://192.168.0.100:8080
Press CTRL+C to quit
```

Security Group Inbound Rules 8080 allowed

Inbound rules							Outbound rules		Sharing - new		VPC associations - new		Tags	
Inbound rules (3)							Manage tags		Edit inbound rules					
Search														
Rule ID	IP version	Type	Protocol	Port range	Source									
3af9af32a1	IPv4	Custom TCP	TCP	8080	0.0.0.0/0									
1c681ca944d	IPv4	SSH	TCP	22	0.0.0.0/0									
bff99ff8a	IPv4	HTTP	TCP	80	0.0.0.0/0									