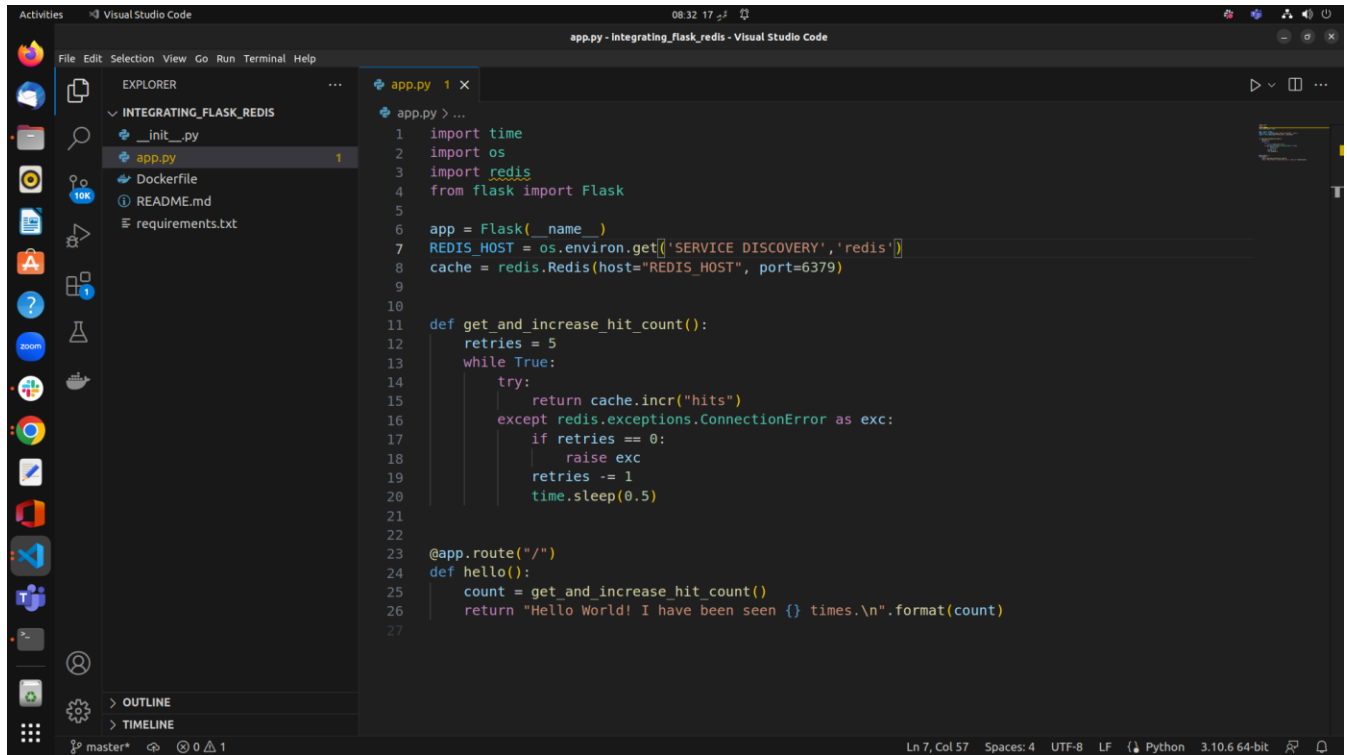


Talha Khan (2303.009.KHI.DEG)

Muhammad Moiz Khan (2303.022.KHI.DEG)

ASSIGNMENT 4.5



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The file is part of a project named `INTEGRATING_FLASK_REDIS`. The code implements a Flask application that connects to a Redis database to track the number of times the `hello()` endpoint is accessed. The application uses a `Flask` instance and a `Redis` client. The `hello()` function calls `get_and_increase_hit_count()`, which increments the hit count in Redis. The application also includes a `requirements.txt` file and a `Dockerfile`.

```
1 import time
2 import os
3 import redis
4 from flask import Flask
5
6 app = Flask(__name__)
7 REDIS_HOST = os.environ.get('SERVICE_DISCOVERY', 'redis')
8 cache = redis.Redis(host=REDIS_HOST, port=6379)
9
10
11 def get_and_increase_hit_count():
12     retries = 5
13     while True:
14         try:
15             return cache.incr("hits")
16         except redis.exceptions.ConnectionError as exc:
17             if retries == 0:
18                 raise exc
19             retries -= 1
20             time.sleep(0.5)
21
22
23 @app.route("/")
24 def hello():
25     count = get_and_increase_hit_count()
26     return "Hello World! I have been seen {} times.\n".format(count)
27
```

Activities

Google Chrome

08:28 17

emeritus | x | Deploy Flas... x | AWS Conso... x | Database E... x | AWS Mana... x | Dashboard x | Amazon EC... x | Namespace... x | Elastic Con... x | eu-north-1... x | github.com x | +

us-east-1.console.aws.amazon.com/ecs/v2/clusters/Assignment/services/region-us-east-1

Search [Alt+S]

N. Virginia Muhammad Moiz Khan

Update

New ECS Experience
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Assignment

Update cluster Delete cluster

Cluster overview

ARN
Assignment

Status
Active

CloudWatch monitoring
Default

Registered container instances
-

Services

Draining
-

Active
2

Tasks

Pending
-

Running
4

Services

Tasks

Infrastructure

Metrics

Scheduled tasks

Tags

Services (2) [info](#)

Filter services by value

All launch types

All service types

Manage tags Update Delete service Create

<input type="checkbox"/>	Service name	Status	ARN	Service t...	Deployments and tasks	Last deploy...	Task defi...	Revision
<input type="checkbox"/>	redis	Active	arn:aws:ecs...	REPLICA	2/2 Tasks ru...	Completed	redis	1
<input type="checkbox"/>	flask_app	Active	arn:aws:ecs...	REPLICA	2/2 Tasks ru...	Completed	flask	1

CloudShell Feedback Language

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Activities Google Chrome 08:29 17

emerit: x Deploy x AWS Co: x Databa: x AWS M: x Amazon x Netwo: x Namesp: x Elastic c x eu-nor: x github: x ec2-44: x New Tab x +

us-east-1.console.aws.amazon.com/ecr/repositories?region=us-east-1

aws Services Search [Alt+S]

Amazon Elastic Container Registry

Private registry
Public registry
Repositories

Getting started
Documentation
Public gallery

Amazon ECR > Repositories

Private Public

Private repositories (2)

Find repositories

View push commands Delete Actions Create repository

<input type="checkbox"/>	Repository name	URI	Created at	Tag immutability	Scan frequency	Encryption type	Pull through cache
<input type="checkbox"/>	flask	017696188619.dkr.ecr.us-east-1.amazonaws.com/flask	May 17, 2023, 08:13:03 (UTC+05)	Disabled	Manual	AES-256	Inactive
<input type="checkbox"/>	redis	017696188619.dkr.ecr.us-east-1.amazonaws.com/redis	May 17, 2023, 08:13:10 (UTC+05)	Disabled	Manual	AES-256	Inactive

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emerit: x Deploy x AWS Co: x Databa: x AWS M: x Dashbo: x Amazo: x Netwo: x Namesp: x Elastic x eu-nor: x github: x ec2-44: x New T: x +

us-east-1.console.aws.amazon.com/cloudmap/home/namespaces?region=us-east-1

aws Services Search [Alt+S]

AWS Cloud Map > Namespaces

Namespaces (2) Info

Find namespace

View details Delete Create namespace

<input type="radio"/>	Domain name	Description	Instance discovery	Namespace ID
<input type="radio"/>	redis.com	-	API calls and DNS queries in VPCs	ns-rdgwhid4kglblj6q
<input type="radio"/>	Assignment	-	API calls	ns-yzkyqbl3wmnyrfy

CloudShell Feedback Language

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emeritus x DeployFl... x AWS Cons... x Database x AWS Man... x

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#NICNetworkInter

Screenshot captured
You can paste the image from the clipboard.

Services Search [Alt+S]

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EC2 Dashboard
EC2 Global View
Events
Limits

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images
AMIs
AMI Catalog

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs

Network interfaces (1) Info

Search

Network interface ID = eni-008061d49b19bea7c X Clear filters

	Name	Network interface ID	Subnet ID	VPC ID	Availability Zone	Security group n...	Security group IDs	Interface Type
		eni-008061d49b19bea7c	subnet-0e4dc2653c9b29013	vpc-0c8aa43e842e759fb	us-east-1f	flask_-8417	sg-083b2e5fb15ea5...	Elastic network interface

Select a network interface

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Activities Google Chrome 08:29 17

emeritus x DeployFl... x AWS Cons... x Database x AWS M... x

us-east-1.console.aws.amazon.com/ecs/home?region=us-east-1#/clusters/Assignment

Screenshot captured
You can paste the image from the clipboard.

Services Search [Alt+S]

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Amazon EKS
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The new Amazon ECS console will become the default for all users starting 2023. You can opt-in to the new console today to use the new simplified workflows for deploying tasks and services, dark mode, task definition JSON editor, and new ECS features. You can continue to use the classic console for any unsupported features in the new experience.

Clusters > Assignment > Task: 43dc2c3d16ba493cafc51eddc172e4

Task: 43dc2c3d16ba493cafc51eddc172e4

Run more like this Stop

Details Tags Logs

Cluster Assignment

Launch type FARGATE

Platform version 1.4.0

Task definition flask:1

Group service:flask_app

Task role None

Last status RUNNING

Desired status RUNNING

Created at 2023-05-17 08:21:58 +0500

Started at 2023-05-17 08:22:38 +0500

Network

Network mode awsvpc

ENI Id eni-008061d49b19bea7c

Subnet Id subnet-0e4dc2653c9b29013

Private IP 172.31.64.22

Public IP 44.200.191.51

Mac address 16:e9:eb:cc:ca:0b

Containers

Last updated on May 17, 2023 8:29:20 AM (0m ago)

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