

PROJECT PART 3

Kevon Mahban

1. Set up of data

44.199.249.197 - Remote Desktop Connection

```
Administrator: Command Prompt
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C:\Users\Administrator>cd C:\Users\Administrator\Documents\playground-main\playgro

C:\Users\Administrator\Documents\playground-main\playground-main\python>python -m

C:\Users\Administrator\Documents\playground-main\playground-main\python>dir
Volume in drive C has no label.
Volume Serial Number is 66CB-C7FE

Directory of C:\Users\Administrator\Documents\playground-main\playground-main\pyt

04/30/2024  04:28 PM    <DIR>          .
04/30/2024  04:27 PM    <DIR>          ..
04/25/2024  10:47 PM             1,058 api_demo.py
04/25/2024  10:47 PM             6,731 app.py
04/25/2024  10:47 PM              460 config.py
04/25/2024  10:47 PM             1,026 random_num.py
04/25/2024  10:47 PM              220 requirements.txt
04/30/2024  04:27 PM    <DIR>          templates
04/30/2024  04:28 PM    <DIR>          venv
               5 File(s)          9,495 bytes
               4 Dir(s)    15,003,611,136 bytes free

C:\Users\Administrator\Documents\playground-main\playground-main\python>.\venv\Scr

(venv) C:\Users\Administrator\Documents\playground-main\playground-main\python>_
```

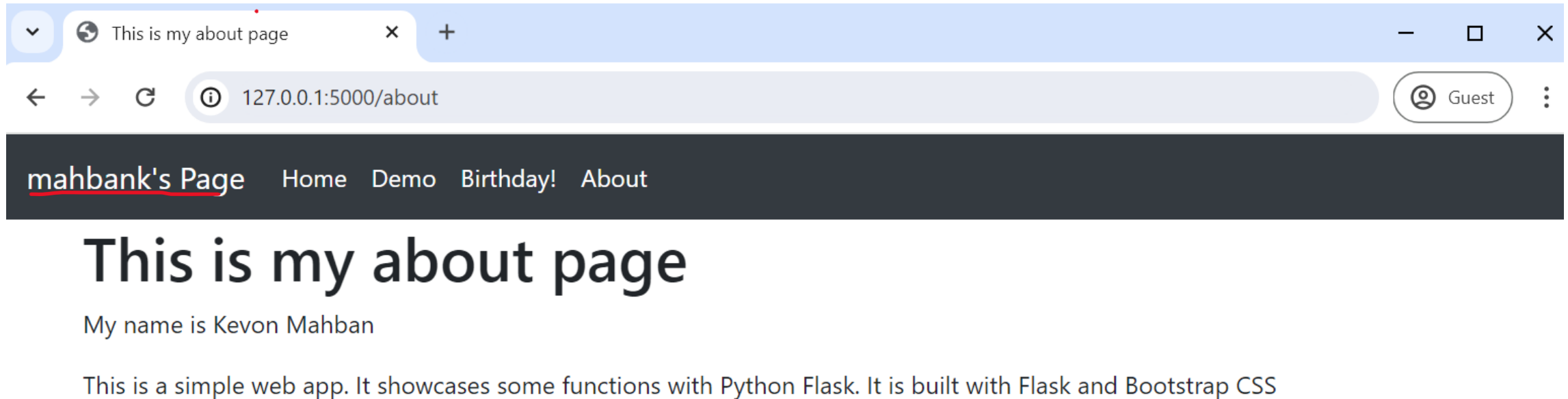
```
Administrator: Command Prompt

----- 96.6/96.6 kB 2.8 MB/s eta 0:00:00
Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Downloading Flask-2.2.2-py3-none-any.whl (101 kB)
----- 101.5/101.5 kB 6.1 MB/s eta 0:00:00
Downloading idna-3.4-py3-none-any.whl (61 kB)
----- 61.5/61.5 kB ? eta 0:00:00
Using cached itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
----- 133.1/133.1 kB 7.7 MB/s eta 0:00:00
Downloading python_dotenv-0.21.0-py3-none-any.whl (18 kB)
Downloading requests-2.28.1-py3-none-any.whl (62 kB)
----- 62.8/62.8 kB 3.3 MB/s eta 0:00:00
Downloading urllib3-1.26.13-py2.py3-none-any.whl (140 kB)
----- 140.6/140.6 kB 8.7 MB/s eta 0:00:00
Downloading Werkzeug-2.2.2-py3-none-any.whl (232 kB)
----- 232.7/232.7 kB 7.0 MB/s eta 0:00:00

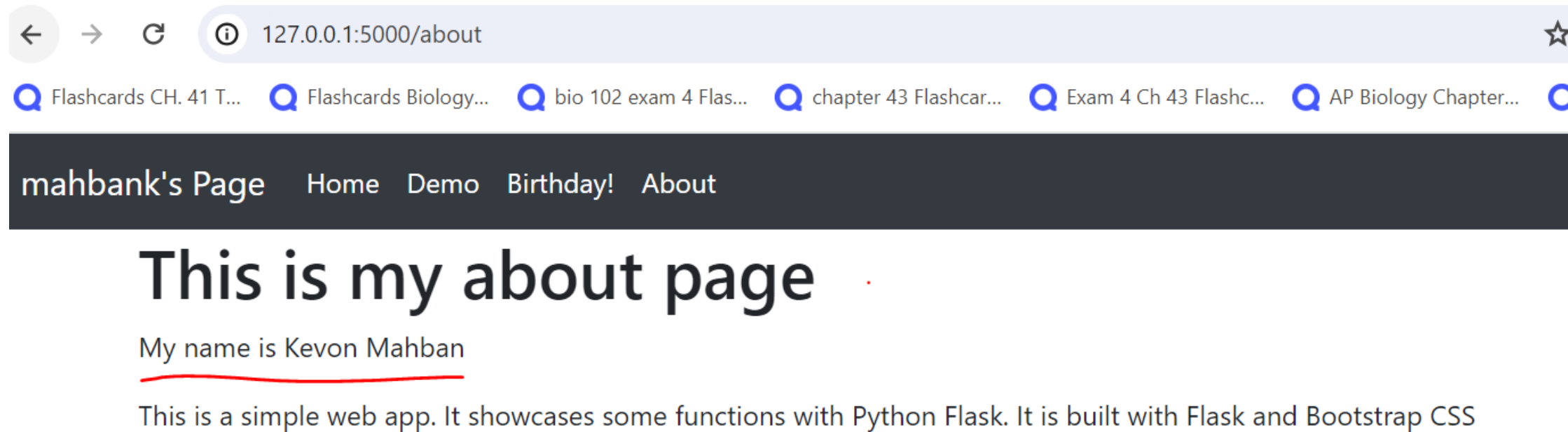
Building wheels for collected packages: MarkupSafe
  Building wheel for MarkupSafe (pyproject.toml) ... done
  Created wheel for MarkupSafe: filename=MarkupSafe-2.1.1-py3-none-any.whl size=9673
sha256=a17bf35502bd7dd3b94c15c146fcf88bc8c6e4990fb2bc4a13e2da37d15b1b10
  Stored in directory: c:\users\administrator\appdata\local\pip\cache\wheels\94\98\08
\511c3c31024cbb049397c9ba169e2da99da8ee8eac60da0d5
Successfully built MarkupSafe
Installing collected packages: urllib3, python-dotenv, MarkupSafe, itsdangerous, idna
, colorama, charset-normalizer, certifi, Werkzeug, requests, Jinja2, click, Flask
Successfully installed Flask-2.2.2 Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 certi
fi-2022.9.24 charset-normalizer-2.1.1 click-8.1.3 colorama-0.4.6 idna-3.4 itsdangerou
s-2.1.2 python-dotenv-0.21.0 requests-2.28.1 urllib3-1.26.13

(venv) C:\Users\Administrator\Documents\playground-main\playground-main\python>_
```

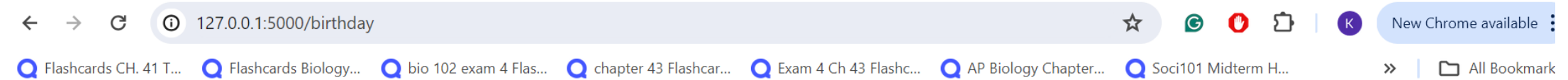
1. EID of my page



2. About showing my name



3. Showing date after to my birthday



mahbank's Page Home Demo Birthday! About

This is a birthday calculator

Please provide me with your name and birthday, and I will let you know, in relation to this year, how many days will there be until your birthday, or how many days has it been since your last birthday.

Your name

Kevon

Select Month

5

Please select your birth month

7

Submit

Your birthday is on May 7, and it has been 2 days since your birthday

5. Birthday showing before current birthday

←

→

↻

🔒 127.0.0.1:5000/birthday

👤 Guest

New Chrome available ⋮

mahbank's Page Home Demo Birthday! About

This is a birthday calculator

Please provide me with your name and birthday, and I will let you know, in relation to this year, how many days will there be until your birthday, or how many days has it been since your last birthday.

Your name

Kevon Mahban

Select Month

5

Please select your birth month

11

Submit

Kevon Mahban, Your birthday is on May 11, and it will be on 2 days

Invalid date(example feb 2 and nov 31, while the server does shoot an error and doesn't compute a date, it doesn't give a message explaining why the date doesn't compute.

Heres my code.

```
# Happy birthday, and send celebrate=True to the birthday.html when rendering.
if month not in big_month and day > 30:

    flash(f"I don't think {str(month_map[month])} has {str(day)} days.")
    return redirect(url_for('birthday'))
elif (month == 2 and isleap(datetime.now().year) and day > 29) or (
    month == 2 and not isleap(datetime.now().year) and day > 28):
    flash(f"I don't think {str(month_map[month])} has {str(day)} days.")
    return redirect(url_for('birthday'))
```

Birthday code, today's date!

← → ↻ ⓘ 127.0.0.1:5000/birthday Guest New Chrome available ⋮

Kevon Mahban

Select Month


5

Please select your birth month

9

Submit

Kevon Mahban, your birthday is on May 9, and it is today! Happy Birthday!



AWS template server, app running

34.205.89.67 - Remote Desktop Connection

The screenshot shows a remote desktop connection to an AWS EC2 instance. The desktop background is the Windows 10 logo wallpaper. On the left is the Windows taskbar with icons for File Explorer, Home, and Quick access. The Quick access menu is open, showing Desktop, Documents, Downloads, Pictures, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Local Disk, and Network. In the center is a web browser window titled 'This is a birthday calculator'. The address bar shows '127.0.0.1/birthday' with a red underline. The page content includes the title 'mahbank's Page', a heading 'This is a birthday calculator', and a paragraph: 'Please provide me with your name and birthday, and I will let you know, in relation to this year, how many days will there be until your birthday, or how many days has it been since your last birthday.' Below this are three input fields: 'Your name' (text box), 'Select Month' (dropdown menu with 'Please select a month'), and 'Please select your birth month' (dropdown menu with 'Please select your birth day'). A blue 'Submit' button is at the bottom. On the right side of the desktop, a terminal window is open, displaying instance details: Hostname: EC2AMAZ-EH9V14P, Instance ID: i-09b6babc7bc43568c, Private IPv4 address: 10.12.1.69, Public IPv4 address: 34.205.89.67, Instance size: t2.micro, Availability Zone: us-east-1a, Architecture: AMD64, Total memory: 1024, and Network: Low to Moderate. A red line is drawn under the network information.

34.205.89.67 - Remote Desktop Connection

This is a birthday calculator

127.0.0.1/birthday

mahbank's Page

This is a birthday calculator

Please provide me with your name and birthday, and I will let you know, in relation to this year, how many days will there be until your birthday, or how many days has it been since your last birthday.

Your name

Select Month

Please select a month

Please select your birth month

Please select your birth day

Submit

Hostname: EC2AMAZ-EH9V14P
Instance ID: i-09b6babc7bc43568c
Private IPv4 address: 10.12.1.69
Public IPv4 address: 34.205.89.67
Instance size: t2.micro
Availability Zone: us-east-1a
Architecture: AMD64
Total memory: 1024
Network: Low to Moderate

Template creation and extra credit tags

Instance ID


 i-09b6bab7bc43568c (mahbank-INFO300-WebServer-Termplate)

Image name

mahbank-INFO300-Project3-Template

Maximum 127 characters. Can't be modified after creation.


Image description - *optional*

The final app server for project 3.

Maximum 255 characters

EBS	/dev/...	Create new snapshot fr...	30	EBS General Purpose S...	100	<input checked="" type="checkbox"/> Enable
-----	----------	---------------------------	----	--------------------------	-----	--

Add volume













 During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - *optional*

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

☒ Tag image and snapshots together
Tag the image and the snapshots with the same tag.

☐ Tag image and snapshots separately
Tag the image and the snapshots with different tags.

Key	Value - <i>optional</i>	
 Name 	 mahbank-INFO300-Project3-Template 	<div>Remove</div>
 Access 	 Public 	<div>Remove</div>
 App 	 INFO300 	<div>Remove</div>

Modifying launch templates and giving description about 3, AMI adaptation

Launch template name and version description

Launch template name

mahbank-INFO300-Project-LT-1 (lt-048915cec919271db)

Template version description

Production web template for Project 3

Max 255 chars

Auto Scaling guidance [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

☐ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

► Source template

AMI from catalog

Recents

My AMIs

Quick Start

☐ Don't include in launch template

☒ Owned by me

☐ Shared with me



[Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

mahbank-INFO300-Project3-Template

ami-04bf70e182bfd7bed

2024-05-09T18:40:29.000Z Virtualization: hvm ENA enabled: true Root device type: ebs

Description

The final app server for project 3.

Architecture

x86_64

AMI ID

ami-04bf70e182bfd7bed

Autoscaling group, version 2 of template, and details of group 2

Launch template

Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

mahbank-INFO300-Project-LT-1

▼

[Create a launch template](#)

Version

Latest (2)

▼

[Create a launch template version](#)

Description

Production web template for Project 3

AMI ID

ami-04bf70e182bfd7bed

Key pair name

INFO300-mahbank-AWS-KEY-Sprg2024

Launch template

[mahbank-INFO300-Project-LT-1](#)
lt-048915cec919271db

Security groups

-

Security group IDs

[sg-0fcc3b178e7ca2cf4](#)

Instance type

t2.micro

Request Spot Instances

No

Autoscaling policy

Launch template name

mahbank-INFO300-Project-LT-1 (lt-048915cec919271db)

Template version description

mahbank-INFO300-Project-LT

Max 255 chars

Auto Scaling guidance [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

☐ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

▼ Source template

2

Production web template for Project 3



Capacities of the auto scaling groups

Auto Scaling group: mahbank-INFO300-Project-ASG1



Auto Scaling group name	Desired capacity	Desired capacity type	Amazon Resource Name (ARN)
mahbank-INFO300-Project-ASG1	2	Units (number of instances)	arn:aws:autoscaling:us-east-1:851725197441:autoScalingGroup:c9e25861-23f7-43be-96ae-46d8d341d804:autoScalingGroupName/mahbank-INFO300-Project-ASG1
Date created	Minimum capacity	Status	
Fri Apr 19 2024 00:49:23 GMT-0400 (Eastern Daylight Time)	2	Updating capacity	
	Maximum capacity		
	4		

Launch template with AMI ID, matching other ami from template 3

Launch template details

Launch template ID
lt-048915cec919271db

Launch template name
mahbank-INFO300-
Project-LT-1

template version details

Actions ▼

Delete template version

2 ▼

Description
Production web template
for Project 3

Date created
2024-05-
09T18:57:15.000Z

Created by
arn:aws:sts::851725197441:
assumed-
role/voclabs/user3054689=
Kevon_Mahban

Instance details

Storage

Resource tags

Network interfaces

Advanced details

AMI ID
ami-04bf70e182bfd7bed

Instance type
t2.micro

Availability Zone
-

Key pair name
INFO300-mahbank-AWS-
KEY-Sprg2024

Security groups
-

Security group IDs
sg-0fcc3b178e7ca2cf4

Load balancers and network configuration of the auto-scaling group using two of my public subnets, and the load balancing using the Target group

Network		Edit
Availability Zones us-east-1a, us-east-1b	Subnet ID subnet-0ca8cf25a318e088a, subnet-097cbd1ef1da77475	

Instance type requirements		Edit
Your Auto Scaling group adheres to the launch template for purchase option and instance type.		

Load balancing		Edit
Load balancer target groups mahban-INFO300-HTTP-TG	Classic Load Balancers -	

Two healthy instances of my server

Details

arn:aws:elasticloadbalancing:us-east-1:851725197441:targetgroup/mahban-INFO300-HTTP-TG/91f4a939009048f7

Target type

Instance

Protocol : Port

HTTP: 80

Protocol version

HTTP1

VPC

[vpc-095f07b4f7a36209e](#)

IP address type

IPv4

Load balancer

[mahbank-INFO300-Project-LB-1](#)

2

Total targets

✓ 2

Healthy

✗ 0

Unhealthy

⋮ 0

Unused

⌚ 0

Initial

⊖ 0

Draining

Registered targets (2)

Info

Anomaly mitigation: Not applicable

Refresh

Deregister

Register targets

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

Filter targets

< 1 >

Settings

<input type="checkbox"/>	Instance ID	Name	Port	Zone	Health status	Health status
<input type="checkbox"/>	i-06ec2175882492941	mahbank-INF...	80	us-east-1a	✓ Healthy	-
<input type="checkbox"/>	i-02a0dd3b95406f2c9	mahbank-INF...	80	us-east-1b	✓ Healthy	-

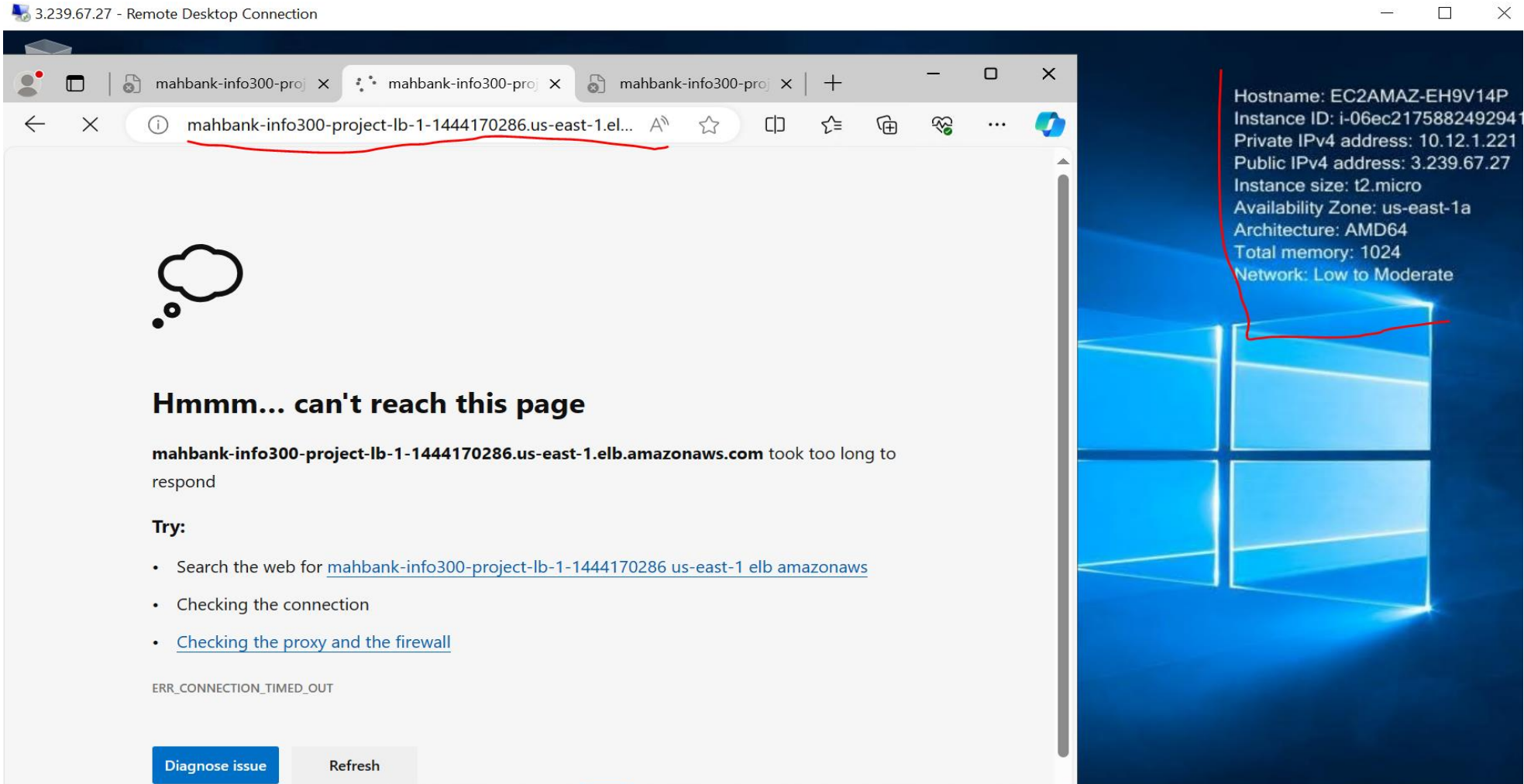
Load balancer with DNS Name

▼ Details

Load balancer type Application	Status ✔ Active	VPC vpc-095f07b4f7a36209e	IP address type IPv4
Scheme Internet-facing	Hosted zone Z35SXDOTRQ7X7K	Availability Zones subnet-0ca8cf25a318e088a us-east-1b (use1-az2) subnet-097cbd1ef1da77475 us-east-1a (use1-az1)	Date created April 18, 2024, 15:06 (UTC-04:00)
Load balancer ARN <code>arn:aws:elasticloadbalancing:us-east-1:851725197441:loadbalancer/app/mahbank-INFO300-Project-LB-1/014ba6080df62773</code>		DNS name Info <code>mahbank-INFO300-Project-LB-1-1444170286.us-east-1.elb.amazonaws.com (A Record)</code>	

Birthday app running on aws, however I had errors loading into the server. Hours of loading yet it could not load into the website. Notice the message “took too long to respond” and not “unable to find page” This was run on the load balancing servers.

3.239.67.27 - Remote Desktop Connection



The screenshot shows a web browser window with three tabs, all titled 'mahbank-info300-proj'. The active tab displays an error message: 'Hmmm... can't reach this page'. Below the error, it states 'mahbank-info300-project-lb-1-1444170286.us-east-1.elb.amazonaws.com took too long to respond'. A 'Try:' section lists three suggestions: 'Search the web for mahbank-info300-project-lb-1-1444170286 us-east-1 elb amazonaws', 'Checking the connection', and 'Checking the proxy and the firewall'. At the bottom, there is a 'Diagnose issue' button and a 'Refresh' button. The error code 'ERR_CONNECTION_TIMED_OUT' is visible at the bottom left. The browser's address bar shows the URL 'mahbank-info300-project-lb-1-1444170286.us-east-1.elb.amazonaws.com', which is underlined in red. To the right of the browser window, a Windows 10 taskbar is visible, displaying system information: 'Hostname: EC2AMAZ-EH9V14P', 'Instance ID: i-06ec2175882492941', 'Private IPv4 address: 10.12.1.221', 'Public IPv4 address: 3.239.67.27', 'Instance size: t2.micro', 'Availability Zone: us-east-1a', 'Architecture: AMD64', 'Total memory: 1024', and 'Network: Low to Moderate'. A red line is drawn across the taskbar, highlighting the system information.

Hostname: EC2AMAZ-EH9V14P
Instance ID: i-06ec2175882492941
Private IPv4 address: 10.12.1.221
Public IPv4 address: 3.239.67.27
Instance size: t2.micro
Availability Zone: us-east-1a
Architecture: AMD64
Total memory: 1024
Network: Low to Moderate

Hmmm... can't reach this page

mahbank-info300-project-lb-1-1444170286.us-east-1.elb.amazonaws.com took too long to respond

Try:

- Search the web for [mahbank-info300-project-lb-1-1444170286 us-east-1 elb amazonaws](#)
- Checking the connection
- [Checking the proxy and the firewall](#)

ERR_CONNECTION_TIMED_OUT

[Diagnose issue](#) [Refresh](#)