

PROJECT PART 2

Kevon Mahban

Extra credit app data

vpc-095f07b4f7a36209e / mahbank-INFO300-VPC1

Details

Resource map

CIDRs

Flow logs

Tags

Integrations

Tags

Manage tags

Search tags

< 1 > ⚙

Key	Value
Name	mahbank-INFO300-VPC1
Access	Public
App	INFO300

1. screen shows the mahbank-INFO300-WebTemplate-1 server located in the project VPC at mahbank-INFO300-VPC1. Notice the server is located in the mahbank-INFO300-Public-SN-2 subnet, runs on a T2.micro instance, and has a public IP address of 34.201.38.198. (fyi ip may change due to me moving locations)

Instance summary for i-082f14cf2081a1faf (mahbank-INFO300-WebTemplate-1) Info

Refresh

Connect

Instance state ▼

Actions ▼

Updated 2 minutes ago

Instance ID i-082f14cf2081a1faf (mahbank-INFO300-WebTemplate-1)	Public IPv4 address 34.201.38.198 open address	Private IPv4 addresses 10.12.2.86
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type IP name: ip-10-12-2-86.ec2.internal	Private IP DNS name (IPv4 only) ip-10-12-2-86.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer recommendations. Learn more
Auto-assigned IP address 34.201.38.198 [Public IP]	VPC ID vpc-095f07b4f7a36209e (mahbank-INFO300-VPC1)	Subnet ID subnet-0ca8cf25a318e088a (mahbank>-INFO300-Public-SN-2)
IAM Role	Subnet ID	Auto Scaling Group name

1. Notice the Security tab of the EC2 server, the security group selected is the mahbank-INFO300-Public-SG-1 security group. The security group rules permits access to the system from VCU and the current ip .Also note that the Security Group permits access to HTTP (TCP 80) from the Internet.

▼ Security details

IAM Role

–


Owner ID

 851725197441

Launch time

Sun Apr 07 2024 20:29:37 GMT-0400
(Eastern Daylight Time)





Security groups

 [sg-0fcc3b178e7ca2cf4 \(mahbank-INFO300-Public-SG-1\)](#)

▼ Inbound rules

 *Filter rules*

< 1 >

Port range	Protocol	Source	Security groups	Descri
80	TCP	128.172.0.0/16	mahbank-INFO300-Public-SG-1 	VCU
443	TCP	128.172.0.0/16	mahbank-INFO300-Public-SG-1 	VCU
443	TCP	128.172.245.83/32	mahbank-INFO300-Public-SG-1 	My IP
80	TCP	128.172.245.83/32	mahbank-INFO300-Public-SG-1 	My IP

1.

lusrmgr - [Local Users and Groups (Local)]

File Action View Help

Local Users and Groups (Local)

- Users
- Groups

Name

- Users
- Groups

Actions

- Local Users and Gr
- More Actions
- Users
- More Actions

New User

User name: mahbank

Full name: Kevon Mahban

Description: My Account

Password:

Confirm password:

☐ User must change password at next logon

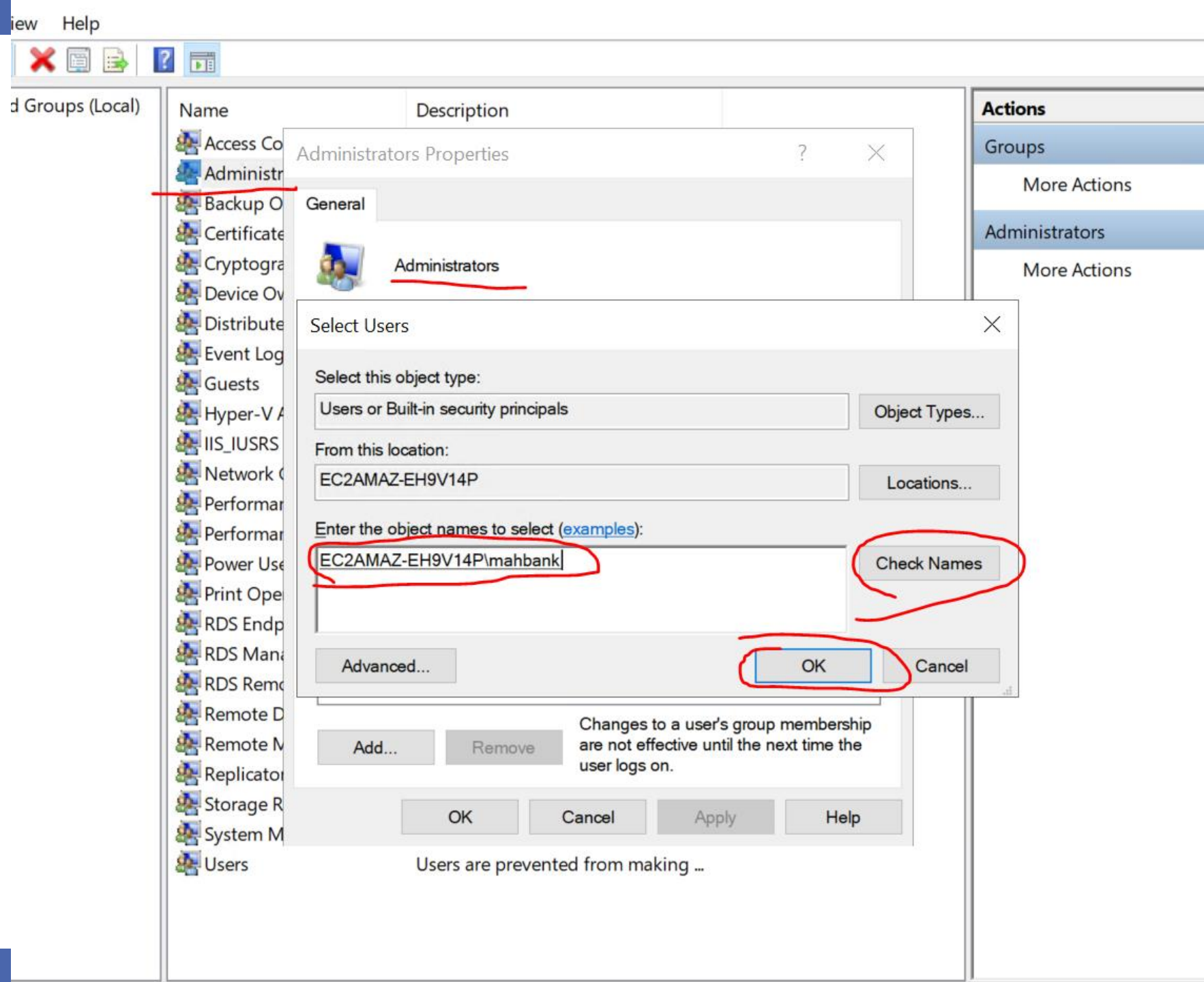
☐ User cannot change password

☐ Password never expires

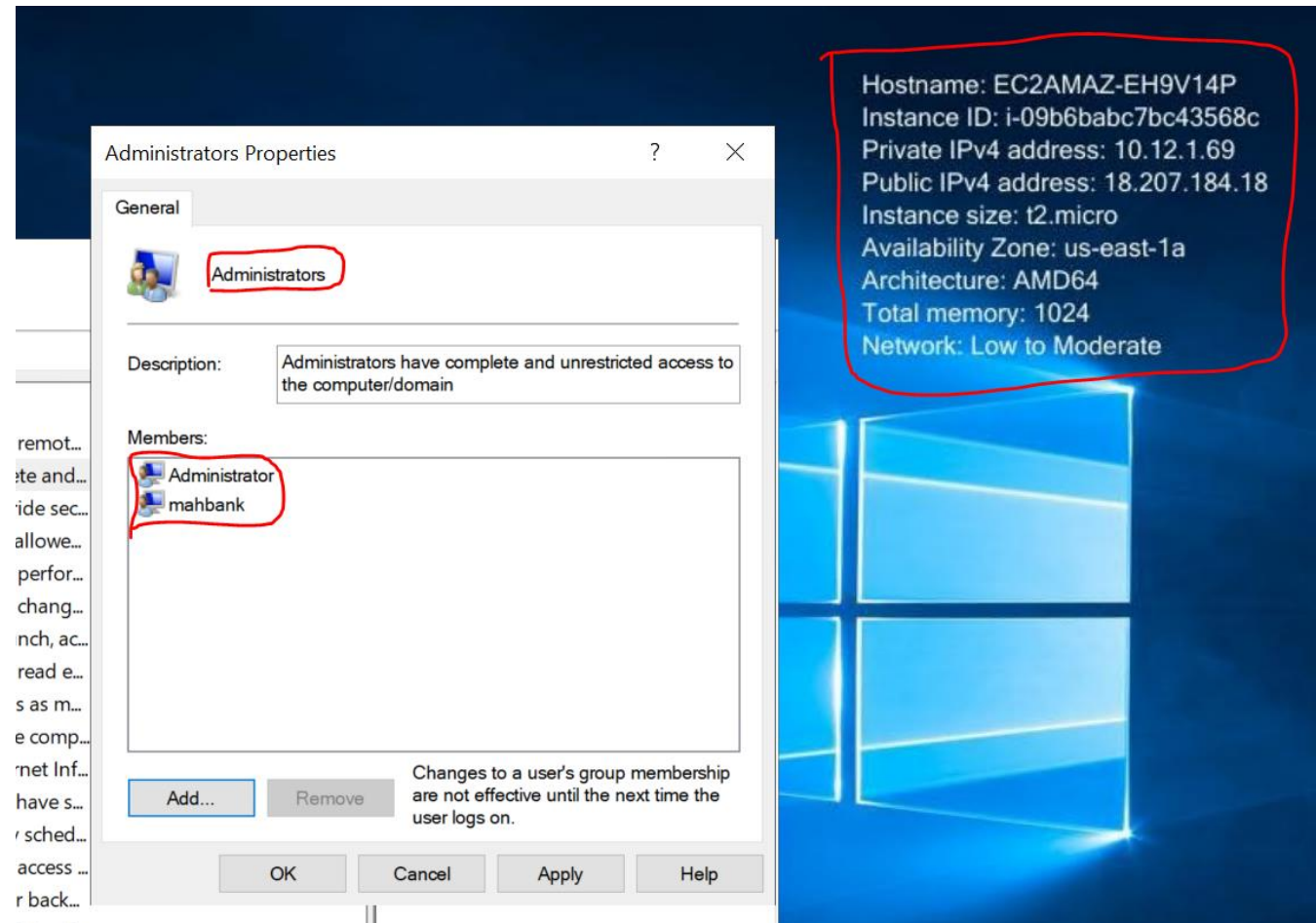
☐ Account is disabled

Help Create Close

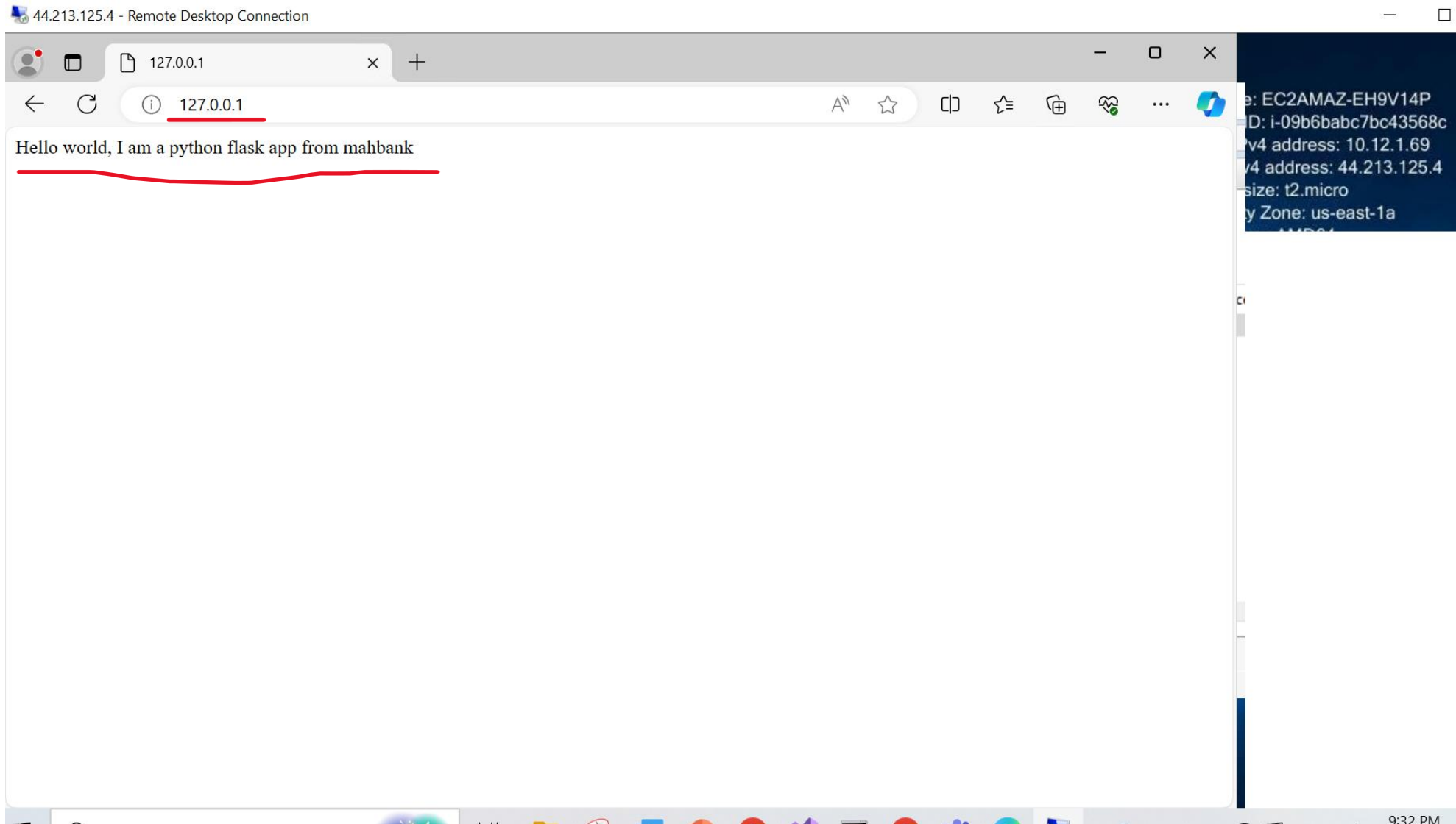
2.



3. Mahbank is the administrator in the server public ip 18.207.184.18



5. ec2 instance of mahbank-INFO300-WebTemplate-1 with ip of 127.0.0.1



6. Showing AMI named mahbank-INFO300-WebServer-Image

Name	AMI name	AMI ID	Source	
mahbank-INF...	mahbank-INFO300-MyFirstImage	ami-0a5b124bd36d02a03	851725197441/mahbank-INFO300-My...	8
mahbank-INF...	mahbank-INFO300-WebServer-...	ami-0c31e681126bb8478	851725197441/mahbank-INFO300-We...	8

AMI ID: ami-0c31e681126bb8478 (mahbank-INFO300-Image)

AMI ID
ami-0c31e681126bb8478
(mahbank-INFO300-Image)

Image type
machine

Platform details
Windows

Root device type
EBS

mahbank-INF...	mahbank-INFO300-WebServer-...	ami-0c31e681126bb8478	851725197441/mahbank-INFO300-We...	8
----------------	-------------------------------	-----------------------	------------------------------------	---

AMI ID: ami-0c31e681126bb8478 (mahbank-INFO300-Image)

AMI name
mahbank-INFO300-WebServer-Image

Owner account ID
851725197441

Architecture
x86_64

usage operation
RunInstances:0002

Root device name
/dev/sda1

Status
Pending

Source
851725197441/mahbank-INFO300-WebServer-Image

Virtualization type
hvm

Boot mode


State reason

Creation date
Wed Apr 17 2024 13:31:41


Kernel ID


Project part 2 deliverable 2, load balancer

1. mahbank-INFO300-LB-SG-1 with inbound http connection

 mahbank-INFO300-LB-SG-1


Owner

 851725197441

 sg-0290bc4f3d16d9940



Inbound rules count

4 Permission entries

 mahbank-INFO300-LB-TCP 80

Outbound rules count

1 Permission entry


 [vpc-095f07b4f7a36209e](#) 

Inbound rules

Outbound rules

Tags


Inbound rules (4)

 [Manage tags](#) [Edit inbound rules](#)

<

1

>



<input type="checkbox"/>	Name ▾	Security group rule... ▾	IP version ▾	Type ▾	Protocol
<input type="checkbox"/>	-	sgr-058215fc87302e9f5	IPv4	HTTPS	TCP
<input type="checkbox"/>	-	sgr-0848c446405983...	IPv4	HTTP	TCP

2. Screen showing the Load Balancer mahbank-INFO300-Project-LB-1, its DNS name, and its Internet facing status, and availability zones

mahbank-INFO300-Project-LB-1



Actions ▼

▼ Details

Load balancer type Application	Status ✔ Active	VPC vpc-095f07b4f7a36209e	IP address type IPv4
<div>Scheme Internet-facing</div>	Hosted zone Z35SXDOTRQ7X7K	<div>Availability Zones subnet-0ca8cf25a318e088a us-east-1b (use1-az2) subnet-097cbd1ef1da77475 us-east-1a (use1-az1)</div>	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>		<div>DNS name Info  <code>mahbank-INFO300-Project-LB-1-1444170286.us-east-1.elb.amazonaws.com</code> (A Record)</div>	

2. Screen showing the load balancer mahbank-INFO300-Project-LB-1 associated with the mahbank-INFO300-LB-SG-1 Security Group. And Screen showing the load balancer mahbank-INFO300-Project-LB-1 associated with the listener named mahbank-INFO300-HTTP-TG that is listening on HTTP

Load balancer ARN
arn:aws:elasticloadbalancing:us-east-1:851725197441:loadbalancer/app/mahbank-INFO300-Project-LB-1/014ba6080df62773

DNS name [Info](#)
mahbank-INFO300-Project-LB-1-1444170286.us-east-1.elb.amazonaws.com (A Record)

< Listeners and rules Network mapping Resource map - new Security Monitoring Integrations Attr >

Security groups (1)

A security group is a set of firewall rules that control the traffic to your load balancer.

Security Group ID	Name	Description
sg-0290bc4f3d16d9940	mahbank-INF...	mahbank-INFO300-LB-TCP 80

new Security Monitoring Integrations Attr >

manage rules Manage listener Add listener

received by the listener is routed according to the default action and any

Protocol:Port	Default action	Rules	ARN	Security policy
HTTP:80	<div>Forward to target group<ul style="list-style-type: none">mahban-INFO300-HTTP-TG: 1 (100%)Group-level stickiness: Off</div>	1 rule	ARN	Not applicable

Version

1 (Default) ▼

Launch template ID

lt-048915cec919271db

Launch template name

mahbank-INFO300-Project-LT-1

Default version

1

Owner

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

Details

Versions

Template tags

Instance details

Storage

Resource tags

Network interfaces

Advanced details

AMI ID

ami-0c31e681126bb8478

Instance type

t2.micro

Availability Zone

-

Key pair name

INFO300-mahbank-AWS-KEY-Sprg2024

Security groups

-

Security group IDs

sg-0fcc3b178e7ca2cf4

2.1 Screen shows launch template named mahbank-INFO300-Project-LT-1 with one network interface configured, and is set to automatically assign a public IP address

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

Actions ▼

Delete template

Launch template details

Launch template ID

lt-048915cec919271db

Launch template name

mahbank-INFO300-Project-LT-1

Default version

1

Owner

arn:aws:sts::85172519744

Instance details

Storage

Resource tags

Network interfaces

Advanced details

Network Interfaces (1)

< 1 >

Device	Network interface	Description	Subnet	Auto-assign public IP	Auto-assign Carrier IP	Primary
eth0	-		-	Enabled	-	-

Instance details

Storage

▶ Spot purchasing options

IAM instance profile

-

Stop-hibernate behavior

-

Resource-based IPv4 DNS

true

2.2 Screen shows Auto-scaling group named mahbank-INFO300-Project-ASG1. The auto-scaling group is set to have at a minimum 2 servers and at maximum 4 servers

EC2 > Auto Scaling groups > mahbank-INFO300-Project-ASG1

mahbank-INFO300-Project-ASG1

Details

Activity

Automatic scaling

Instance management

Monitoring

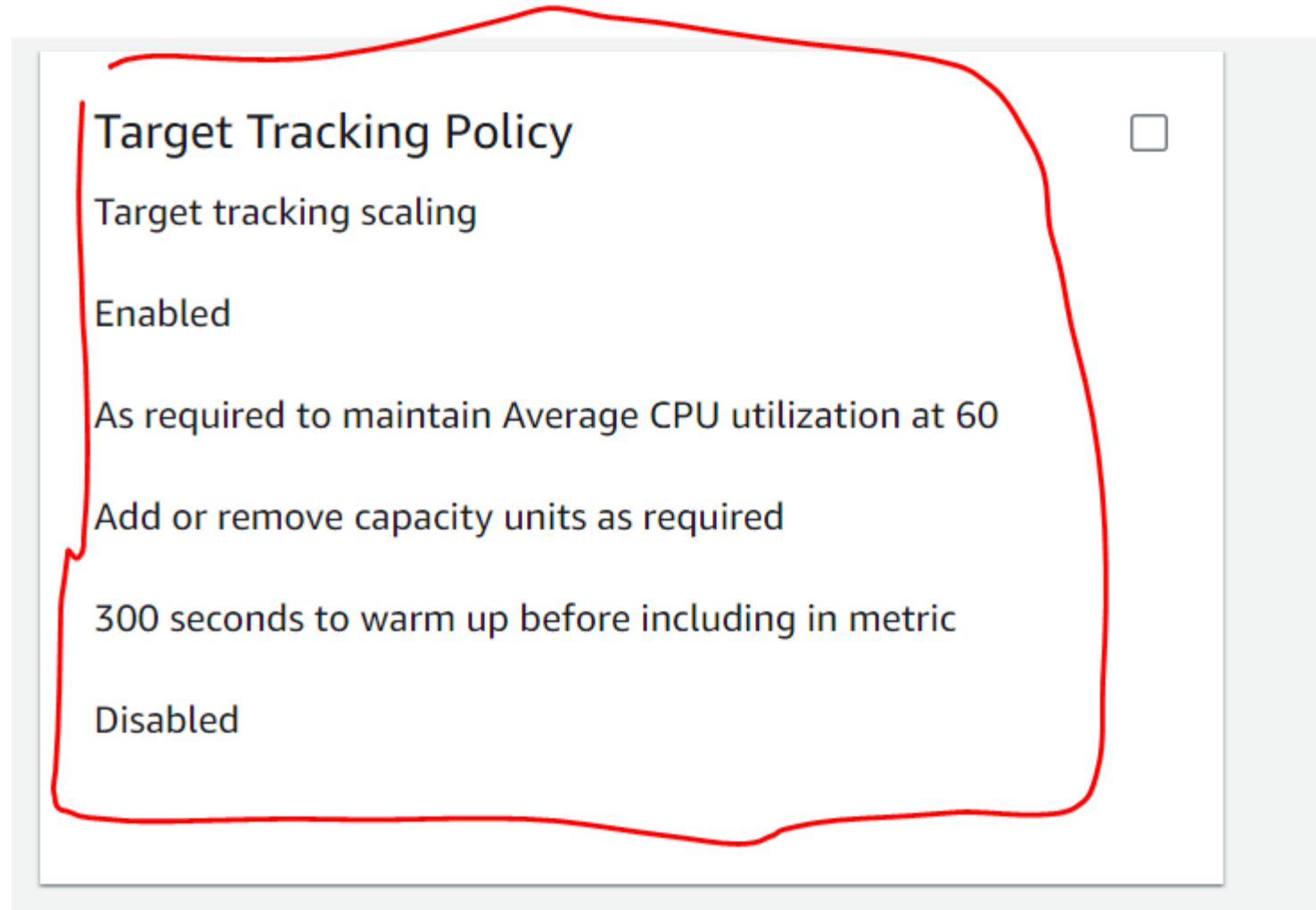
Instance refresh

Group details







Edit

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
Date created	Minimum capacity	Advanced configurations	
Fri Apr 19 2024 00:49:23 GMT-0400 (Eastern Daylight Time)	2	Edit	
	Maximum capacity	Instance scale-in protection	Termination policies
	4	Not protected from scale in	Default
		Placement group	Suspended processes
		-	-
		Maximum instance lifetime	Service-linked role
		-	arn:aws:iam::851725197441:role/aws-service-role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling
		Default cooldown	Default instance warmup
		300	Disabled

Screen shows Auto-scaling group named mahbank-INFO300-Project-ASG1 configured with a dynamic scaling policy to provision more assets if CPU utilization for existing assets exceed 60%.



Edited VPC rules that only permits HTTP access from within the subnet for mahbank-INFO300-Public-SG-1


Security group name	Security group ID	Description	VPC ID
 mahbank-INFO300-Public-SG-1	 sg-0fcc3b178e7ca2cf4	 Public Security Group	 vpc-095f07b4f7a36209e 
Owner	Inbound rules count	Outbound rules count	
 851725197441	8 Permission entries	4 Permission entries	


Inbound rules




Outbound rules

Tags

Inbound rules (8)

 Manage tags Edit inbound rules

 Search

 1  

▼	Type	▼	Protocol	▼	Port range	▼	Source
	HTTP		TCP		80		10.12.0.0/16
	HTTP		TCP		80		128.172.0.0/16

2. Showing EC2 instances named “mahbank-INFO300-Project-Template Server” server 1, and its associated public and private IP addresses

Instances (1/3) Info			Connect	Instance state ▼	Actions ▼	Launch instances ▼
<input type="text" value="Find Instance by attribute or tag (case-sensitive)"/>		All states ▼				
Instance state = running X		Clear filters		< 1 > ⚙		
	Name ✎ ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status
<input checked="" type="checkbox"/>	mahbank-INF...	i-Ofecad4bbeff5ab4c	✓ Running 🔍 🔍	t2.micro	✓ 2/2 checks passed View alarms +	

Instance: i-Ofecad4bbeff5ab4c (mahbank-INFO300-Project-Template Server)

Instance ID
 i-Ofecad4bbeff5ab4c (mahbank-INFO300-Project-Template Server)

IPv6 address

–

Hostname type

IP name: ip-10-12-2-30.ec2.internal

Public IPv4 address

18.212.72.237 [open address](#)

Instance state

✓ Running

Private IP DNS name (IPv4 only)

ip-10-12-2-30.ec2.internal

Private IPv4 addresses

10.12.2.30

Public IPv4 DNS

–

2 Showing EC2 instances named “mahbank-INFO300-Project-Template Server” server 1, and its associated VPC ID, Subnet ID, Auto Scaling Group name, AMI ID, and AMI name

Instance: i-05191860a84e6a03c (mahbank-INFO300-Project-Template Server)

Instance type t2.micro	Answer private resource DNS name IPv4 (A) -	ami-0c31e681126bb8478 (mahbank-INFO300-Image) disabled	
Auto-assigned IP address 18.212.72.237 [Public IP]	Elastic IP addresses -	AMI name mahbank-INFO300-WebServer-Image	Termination protection Disabled
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	VPC ID vpc-095f07b4f7a36209e (mahbank-INFO300-VPC1)	Launch time Fri Apr 19 2024 16:22:26 GMT-0400 (Eastern Daylight Time) (19 minutes)	AMI location 851725197441/mahbank-INFO300-WebServer-Image
Subnet ID subnet-0ca8cf25a318e088a (mahbank-INFO300-Public-SN-2)	IAM Role -	Lifecycle normal	Stop-hibernate behavior Disabled
IMDSv2 Optional	Auto Scaling Group name mahbank-INFO300-Project-ASG1	Key pair assigned at launch INFO300-mahbank-AWS-KEY-Sprg2024	State transition reason -
		Kernel ID -	State transition message -
		RAM disk ID -	Owner 851725197441

Showing EC2 instances and its associated Security Group, as well as the Security Group Rules.

▼ Inbound rules

< 1 >


Security group rule ID	Port range	Protocol	Source	Security groups	Description
sgr-06477872190d4eeba	80	TCP	10.12.0.0/16	mahbank-INFO300-Public-SG-1	VPC
sgr-0ddaba3cb6d122cc5	80	TCP	128.172.0.0/16	mahbank-INFO300-Public-SG-1	VCU
sgr-03dd7c9983976c64c	443	TCP	128.172.0.0/16	mahbank-INFO300-Public-SG-1	VCU
sgr-0afb0945ace29507c	3389	TCP	72.84.241.215/32	mahbank-INFO300-Public-SG-1	My I
sgr-054ea67d896554e8b	3389	TCP	128.172.0.0/16	mahbank-INFO300-Public-SG-1	VCU
sgr-056c9c97ac8444331	443	TCP	10.12.0.0/16	mahbank-INFO300-Public-SG-1	VPC
sgr-08b8c5df6c7a2576a	443	TCP	72.84.241.215/32	mahbank-INFO300-Public-SG-1	My I
sgr-02969722a2e186f8b	80	TCP	72.84.241.215/32	mahbank-INFO300-Public-SG-1	My I



: Showing Target Group named “mahbank-INFO300-HTTP-TG”. Notice two instances are contained in the load balancer target group, with TCP port 80 as the destination port. Both instances are reporting healthy.






mahban-INFO300-HTTP-TG

Actions

Details

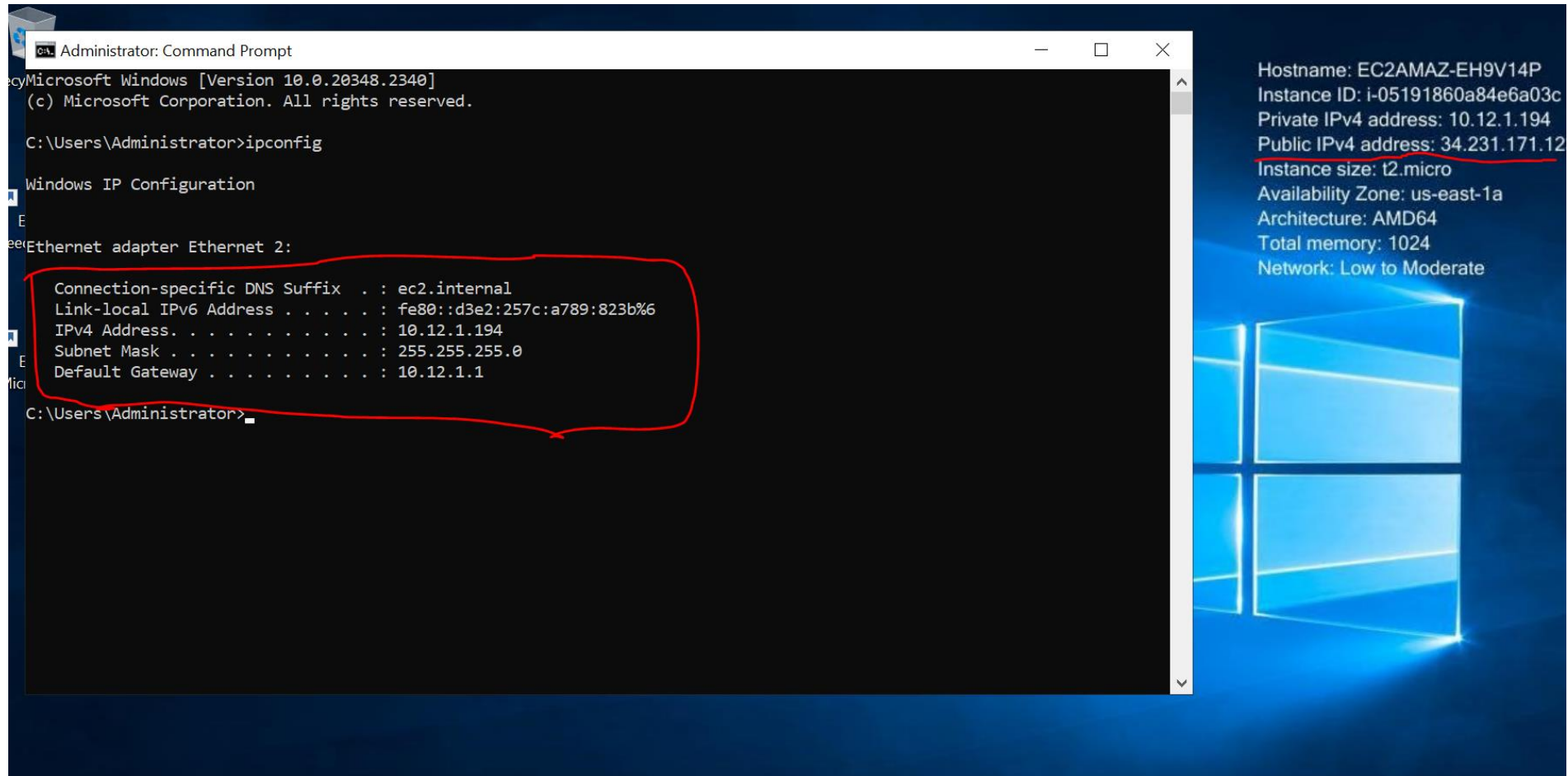
 `arn:aws:elasticloadbalancing:us-east-1:851725197441:targetgroup/mahban-INFO300-HTTP-TG/91f4a939009048f7`

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-095f07b4f7a36209e 
IP address type	Load balancer		
IPv4	mahbank-INFO300-Project-LB-1 		

2	 2	 0	 0	 0	 0
Total targets	<u>Healthy</u>	<u>Unhealthy</u>	Unused	Initial	Draining
	0 Anomalous				

► Distribution of targets by Availability Zone (AZ)

Shows public and private IP addresses



The image displays a Windows Command Prompt window and an AWS console snippet. The Command Prompt shows the output of the `ipconfig` command for the Ethernet adapter Ethernet 2. A red box highlights the IPv4 and IPv6 addresses. The AWS console snippet shows instance details, with the Public IPv4 address highlighted by a red underline.

Command Prompt Output:

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.20348.2340]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : ec2.internal
    Link-local IPv6 Address . . . . . : fe80::d3e2:257c:a789:823b%6
    IPv4 Address. . . . . : 10.12.1.194
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.12.1.1

C:\Users\Administrator>
```

AWS Instance Details:

- Hostname: EC2AMAZ-EH9V14P
- Instance ID: i-05191860a84e6a03c
- Private IPv4 address: 10.12.1.194
- Public IPv4 address: 34.231.171.12
- Instance size: t2.micro
- Availability Zone: us-east-1a
- Architecture: AMD64
- Total memory: 1024
- Network: Low to Moderate

Shows Load Balancer named "s2dhan-INFO300-Project-LB-1", and its DNS name of "mahbank-INFO300-Project-LB-1"

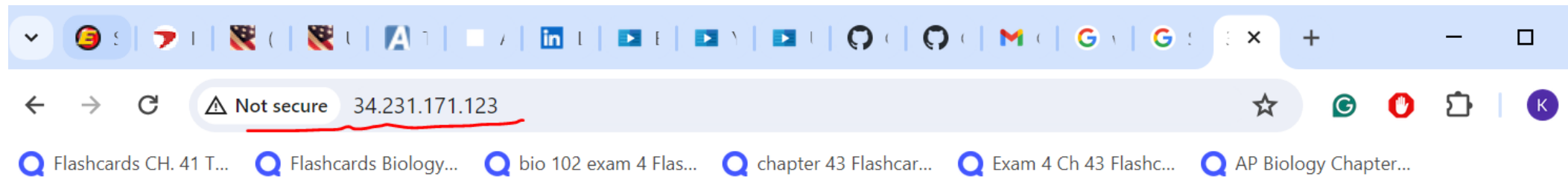
mahbank-INFO300-Project-LB-1

Actions ▾

▼ Details

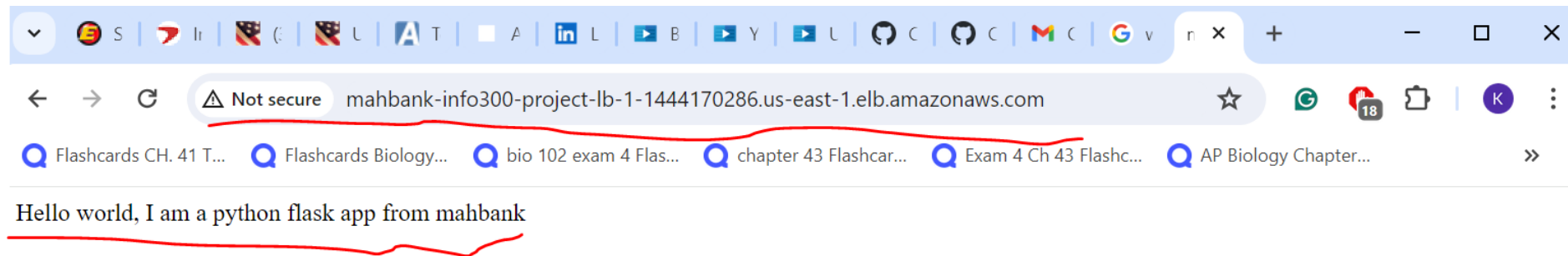
Load balancer type Application	Status Active	VPC vpc-095f07b4f7a36209e	IP address type IPv4
Scheme Internet-facing	Hosted zone Z35SXDOTRQ7X7K	Availability Zones subnet-0ca8cf25a318e088a us-east-1b (use1-az2) subnet-097cbd1ef1da77475 us-east-1a (use1-az1)	Date created April 18, 2024, 15:06 (UTC-04:00)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

Shows direct connection from my computer browser



Hello world, I am a python flask app from mahbank

Shows direct connection attempt from my computer's browser to the Load balancer DNS



CLEANUP

<input type="checkbox"/>	Name	Launch template/configuration	Instances	Status
<input checked="" type="checkbox"/>	<u>mahbank-INFO300-Project-ASG1</u>	<u>mahbank-INFO300-Project-LT-1</u> Version 3	-	-
<input type="checkbox"/>	<u>mahbank-INFO300-MyFirstASG</u>	<u>mahbank-INFO300-MyFirstLT</u> Version La 0	-	-

Auto Scaling group: mahbank-INFO300-Project-ASG1

Group details

Edit

Auto Scaling group name mahbank-INFO300-Project-ASG1	Desired capacity 3	Desired capacity type Units (number of instances)	Amazon Resource Name (ARN) arn:aws:autoscaling:us-east-1:851725197441:autoScalingGroup:mahbank-INFO300-Project-ASG1
---	-----------------------	--	--

Desired capacity type

Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups configured with a set of instance attributes.

Units (number of instances)

Desired capacity

Specify your group size.

0

Scaling limits

Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity

0

Equal or less than desired capacity

Max desired capacity

4

Equal or greater than desired capacity

Cancel

Update