Assignment 1B – Creating and Deploying Photo Album website onto a simple AWS Infrastructure

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Lab session: Friday 4:30-6:30

INTRODUCTION

In this we are creating and deploying photo album website onto a simple AWS Infrastructure using VPC, Internet gateway, EC2, and using a website to store the metadata about the information of the photo uploaded to the S3 in a MySQL Database managed by Amazon RDS.

Given Cloud Diagram which I used

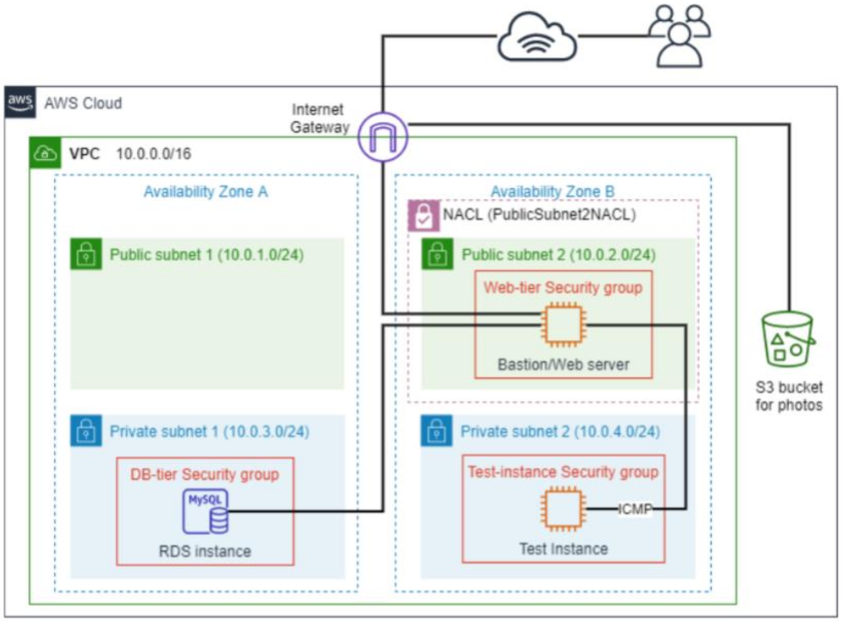
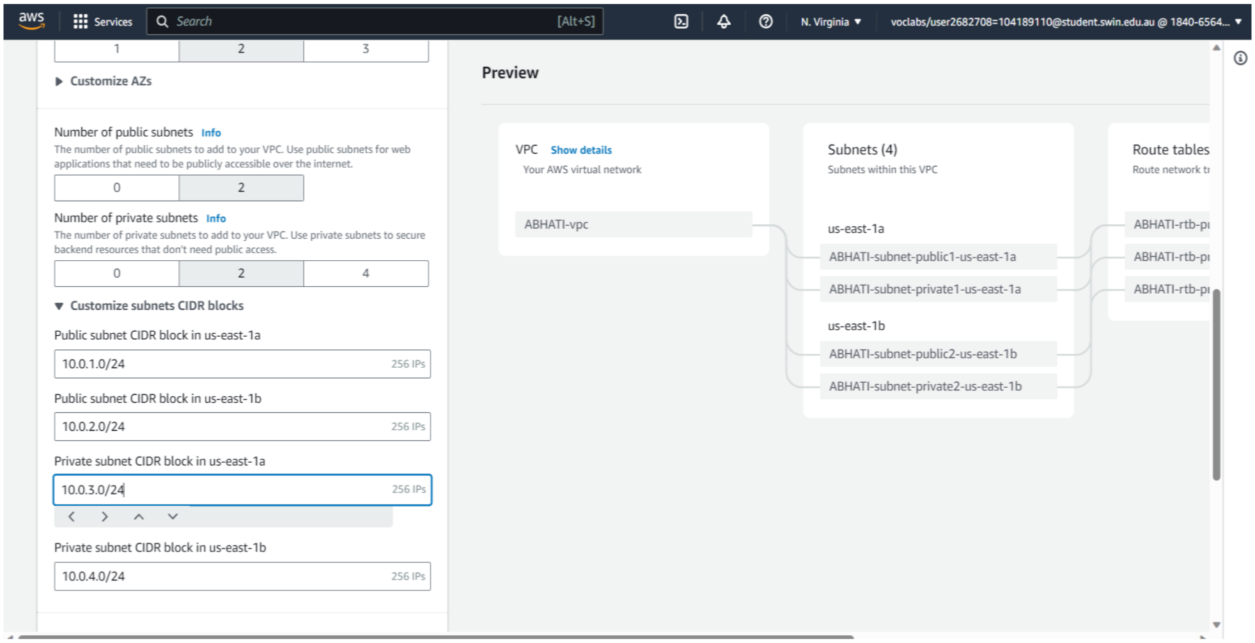


Fig 1.1 Cloud architecture

Creating a VPC with subnets as specified in diagram in the task pdf.


aws
Services
Search
[Alt+S]
N. Virginia ▼
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564... ▼

1 | 2 | 3

▶ Customize AZs

Number of public subnets Info
The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.

0 | 2

Number of private subnets Info
The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0 | 2 | 4

▼ Customize subnets CIDR blocks

Public subnet CIDR block in us-east-1a
10.0.1.0/24 256 IPs

Public subnet CIDR block in us-east-1b
10.0.2.0/24 256 IPs

Private subnet CIDR block in us-east-1a
10.0.3.0/24 256 IPs

Private subnet CIDR block in us-east-1b
10.0.4.0/24 256 IPs

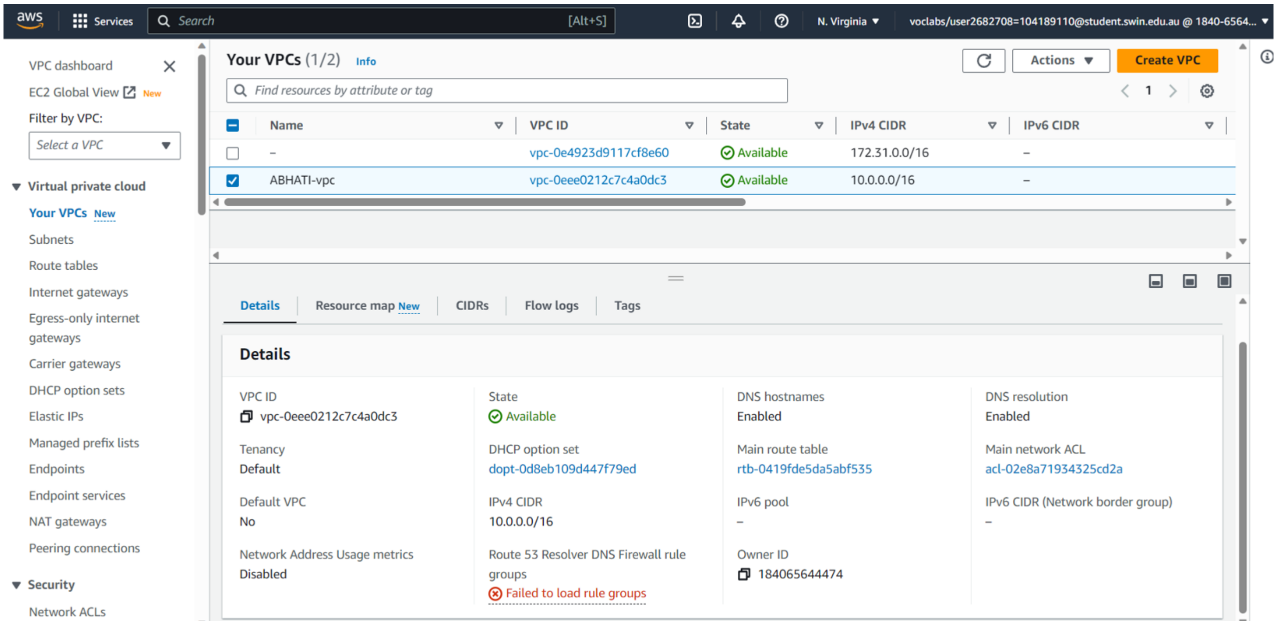
Preview

VPC Show details
Your AWS virtual network
ABHATI-vpc

Subnets (4)
Subnets within this VPC
us-east-1a
ABHATI-subnet-public1-us-east-1a
ABHATI-subnet-private1-us-east-1a
us-east-1b
ABHATI-subnet-public2-us-east-1b
ABHATI-subnet-private2-us-east-1b

Route tables
Route network tr
ABHATI-rtb-pu
ABHATI-rtb-pr
ABHATI-rtb-pr

Fig 1.2 creating and configuring a VPC



Your VPCs (1/2) Info

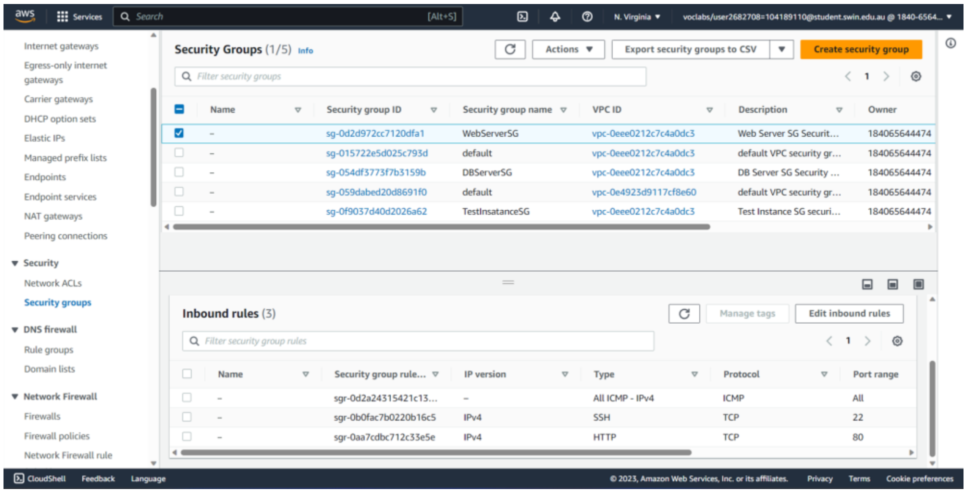
☐	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
☐	–	vpc-0e4923d9117cf8e60	✓ Available	172.31.0.0/16	–
☑	ABHATI-vpc	vpc-0eee0212c7c4a0dc3	✓ Available	10.0.0.0/16	–

Details

VPC ID vpc-0eee0212c7c4a0dc3	State ✓ Available	DNS hostnames Enabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0d8eb109d447f79ed	Main route table rtb-0419fde5da5abf535	Main network ACL acl-02e8a71934325cd2a
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool –	IPv6 CIDR (Network border group) –
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups ⊗ Failed to load rule groups	Owner ID 184065644474	

Fig 1.3 checking VPC status

Created (WebServerSG, DBServerSG, TestInstanceSG) "3" Security Group from the given Table



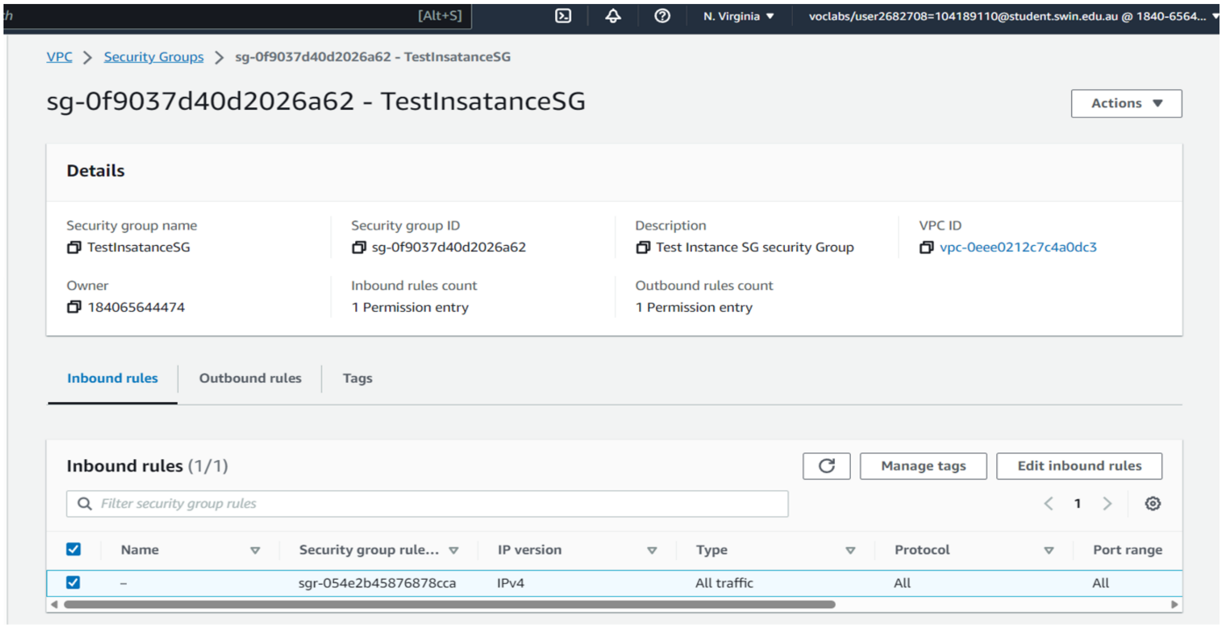
Security Groups (1/5) Info

☐	Name	Security group ID	Security group name	VPC ID	Description	Owner
☑	–	sg-0d2d972cc7120dfa1	WebServerSG	vpc-0eee0212c7c4a0dc3	Web Server SG Securit...	184065644474
☐	–	sg-015722e5d025c793d	default	vpc-0eee0212c7c4a0dc3	default VPC security gr...	184065644474
☐	–	sg-054df3773f7b3159b	DBServerSG	vpc-0eee0212c7c4a0dc3	DB Server SG Security ...	184065644474
☐	–	sg-059dabed20d8691f0	default	vpc-0e4923d9117cf8e60	default VPC security gr...	184065644474
☐	–	sg-0f9037d40d2026a62	TestInsatanceSG	vpc-0eee0212c7c4a0dc3	Test Instance SG securi...	184065644474

Inbound rules (3)

☐	Name	Security group rule...	IP version	Type	Protocol	Port range
☐	–	sgr-0d2a24315421c13...	–	All ICMP - IPv4	ICMP	All
☐	–	sgr-0b0fac7b0220b16c5	IPv4	SSH	TCP	22
☐	–	sgr-0aa7cdbc712c33e5e	IPv4	HTTP	TCP	80

Fig 1.4 security groups


[Alt+S]
N. Virginia
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564...
Actions
Inbound rules
Outbound rules
Tags
Manage tags
Edit inbound rules
Filter security group rules
1

VPC > Security Groups > sg-0f9037d40d2026a62 - TestInsatanceSG

sg-0f9037d40d2026a62 - TestInsatanceSG

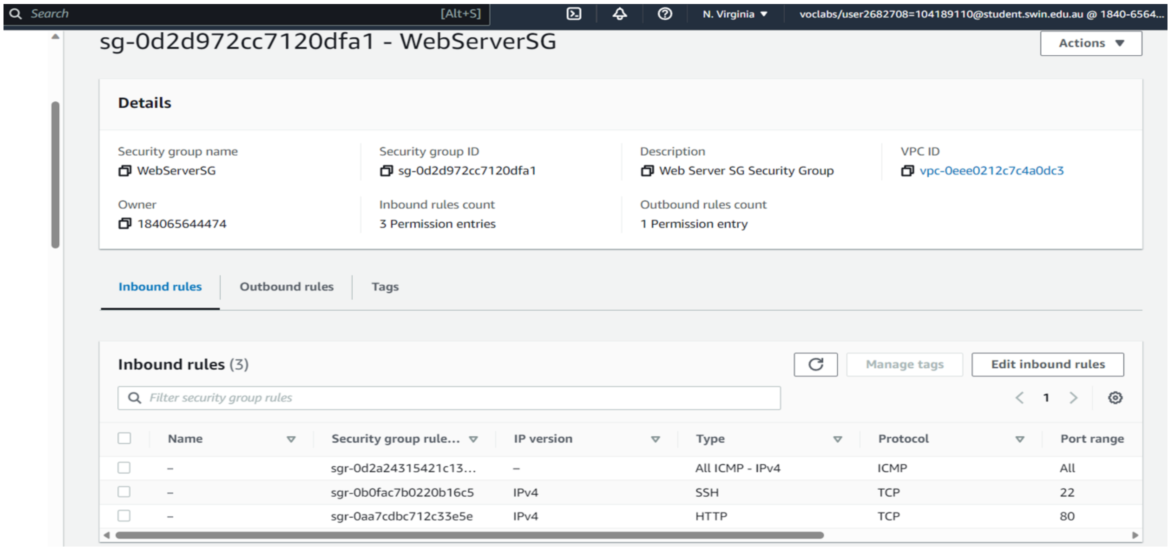
Details

Security group name	Security group ID	Description	VPC ID
TestInsatanceSG	sg-0f9037d40d2026a62	Test Instance SG security Group	vpc-0eee0212c7c4a0dc3
Owner	Inbound rules count	Outbound rules count	
184065644474	1 Permission entry	1 Permission entry	

Inbound rules (1/1)

☑	Name	Security group rule...	IP version	Type	Protocol	Port range
☑	–	sgr-054e2b45876878cca	IPv4	All traffic	All	All

Fig 1.5 security group 1 TestInstanceSG



sg-0d2d972cc7120dfa1 - WebServerSG

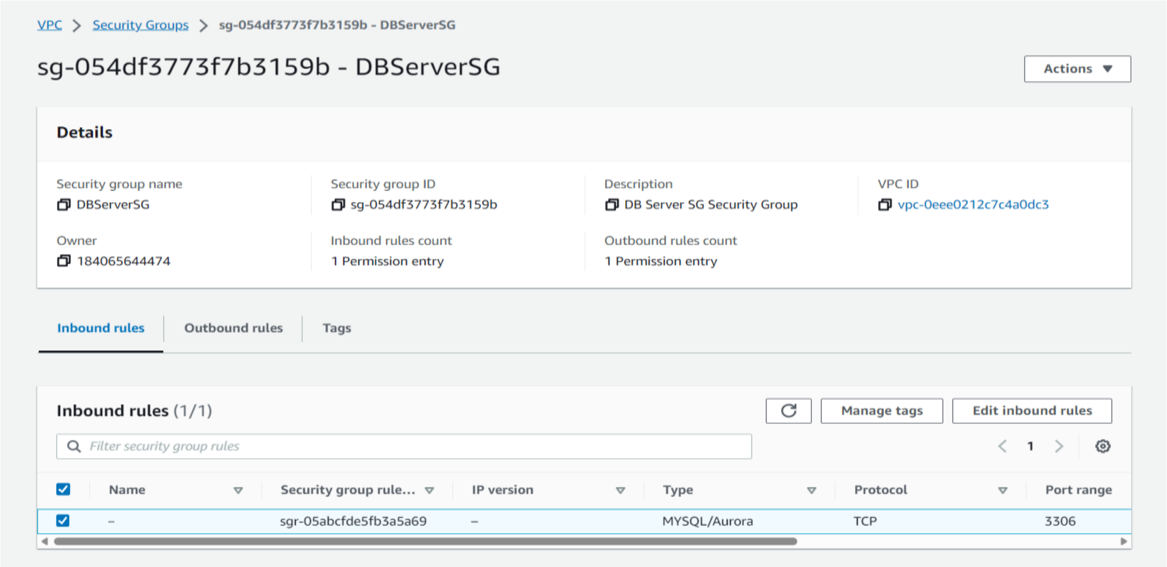
Details

Security group name	Security group ID	Description	VPC ID
WebServerSG	sg-0d2d972cc7120dfa1	Web Server SG Security Group	vpc-0eee0212c7c4a0dc3
Owner	Inbound rules count	Outbound rules count	
184065644474	3 Permission entries	1 Permission entry	

Inbound rules (3)

□	Name	Security group rule...	IP version	Type	Protocol	Port range
□	–	sgr-0d2a24315421c13...	–	All ICMP - IPv4	ICMP	All
□	–	sgr-0b0fac7b0220b16c5	IPv4	SSH	TCP	22
□	–	sgr-0aa7cdbc712c33e5e	IPv4	HTTP	TCP	80

Fig 1.6 security group 2 WebServerSG


VPC > Security Groups > sg-054df3773f7b3159b - DBServerSG
Actions ▼

sg-054df3773f7b3159b - DBServerSG

Details

Security group name	Security group ID	Description	VPC ID
DBServerSG	sg-054df3773f7b3159b	DB Server SG Security Group	vpc-0eee0212c7c4a0dc3
Owner	**Inbound rules count**	**Outbound rules count**	
184065644474	1 Permission entry	1 Permission entry	

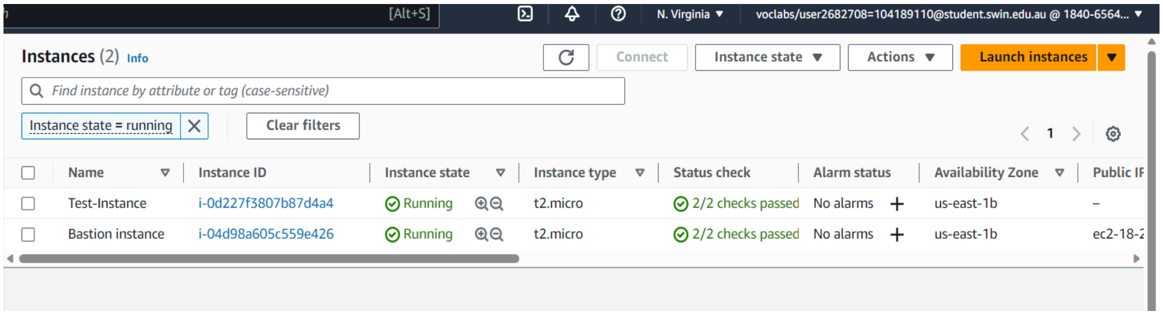
Inbound rules
Outbound rules
Tags
Manage tags
Edit inbound rules
Filter security group rules

Inbound rules (1/1)

☑	Name	Security group rule...	IP version	Type	Protocol	Port range
☑	–	sgr-05abcfde5fb3a5a69	–	MYSQL/Aurora	TCP	3306

Fig 1.7 security group 3 DBserversg

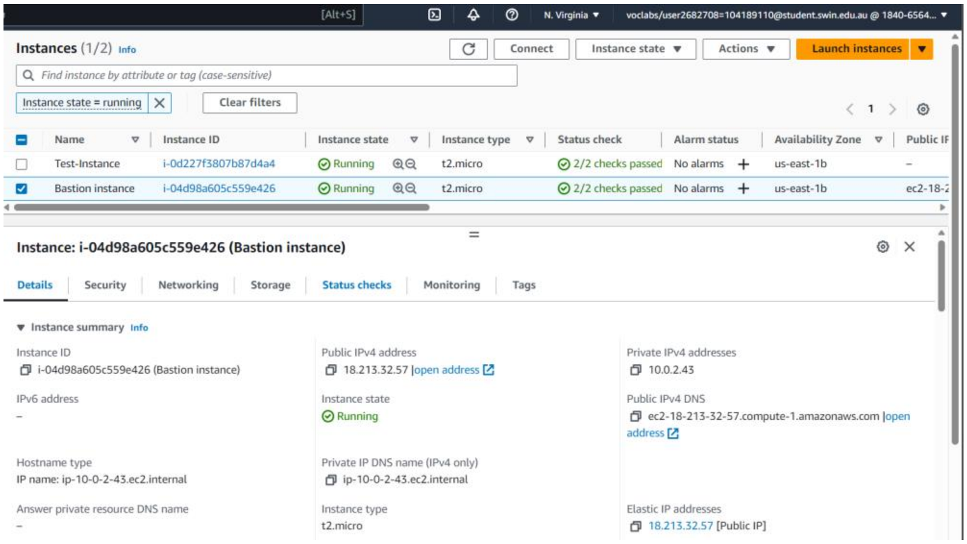
Created EC2 Virtual Machines one as Bastion/Web server Instance and the other Test Instance


[Alt+S]
N. Virginia ▼
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564... ▼
Info
Connect
Instance state ▼
Actions ▼
Launch instances ▼
Find instance by attribute or tag (case-sensitive)
Instance state = running
Clear filters

Instances (2)

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IF
☐	Test-Instance	i-0d227f3807b87d4a4	✓ Running	t2.micro	✓ 2/2 checks passed	No alarms	us-east-1b	–
☐	Bastion instance	i-04d98a605c559e426	✓ Running	t2.micro	✓ 2/2 checks passed	No alarms	us-east-1b	ec2-18-2

Fig 1.8 EC2 Instances



Instances (1/2) Info

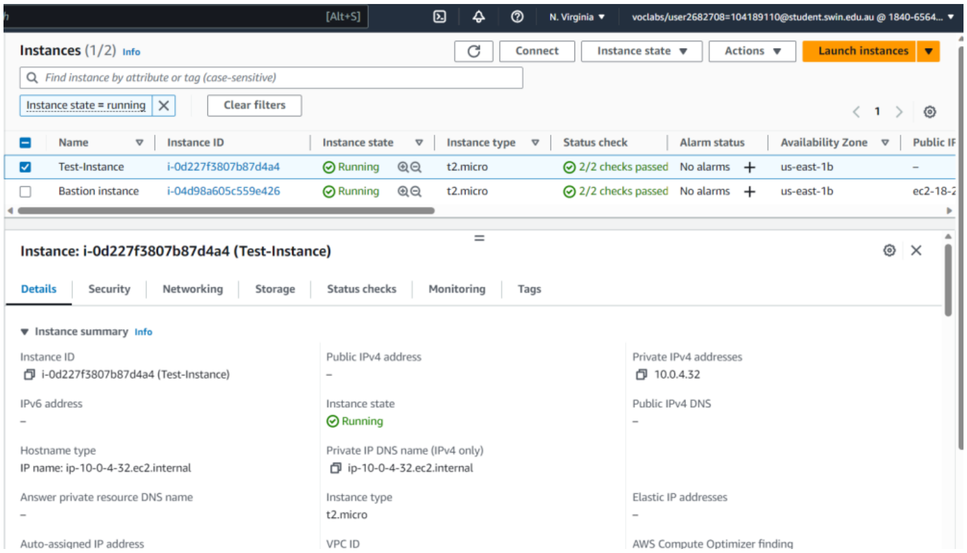
☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IF
☐	Test-Instance	i-0d227f3807b87d4a4	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1b	–
☑	Bastion instance	i-04d98a605c559e426	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1b	ec2-18-2

Instance: i-04d98a605c559e426 (Bastion instance)

▼ Instance summary Info

Instance ID i-04d98a605c559e426 (Bastion instance)	Public IPv4 address 18.213.32.57 |open address	Private IPv4 addresses 10.0.2.43
IPv6 address –	Instance state Running	Public IPv4 DNS ec2-18-213-32-57.compute-1.amazonaws.com |open address
Hostname type IP name: ip-10-0-2-43.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-2-43.ec2.internal	
Answer private resource DNS name –	Instance type t2.micro	Elastic IP addresses 18.213.32.57 [Public IP]

Fig 1.9 Bastion Instance



Instances (1/2) Info

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IF
☑	Test-Instance	i-0d227f3807b87d4a4	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1b	–
☐	Bastion instance	i-04d98a605c559e426	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1b	ec2-18-2

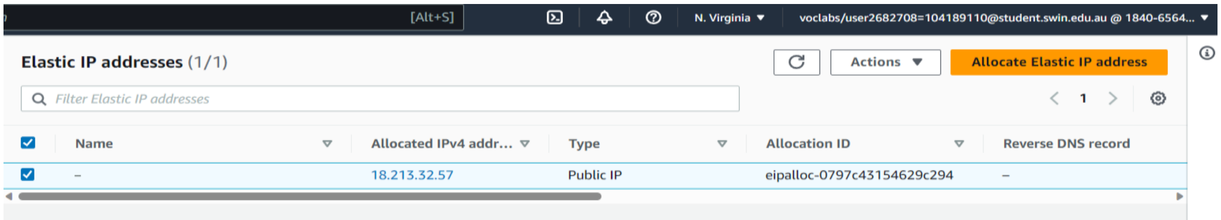
Instance: i-0d227f3807b87d4a4 (Test-Instance)

▼ Instance summary Info

Instance ID i-0d227f3807b87d4a4 (Test-Instance)	Public IPv4 address –	Private IPv4 addresses 10.0.4.32
IPv6 address –	Instance state Running	Public IPv4 DNS –
Hostname type IP name: ip-10-0-4-32.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-4-32.ec2.internal	
Answer private resource DNS name –	Instance type t2.micro	Elastic IP addresses –
Auto-assigned IP address	VPC ID	AWS Compute Optimizer finding

Fig 1.10 Test Instance

Created and attached Elastic IP address so that it won't change every time

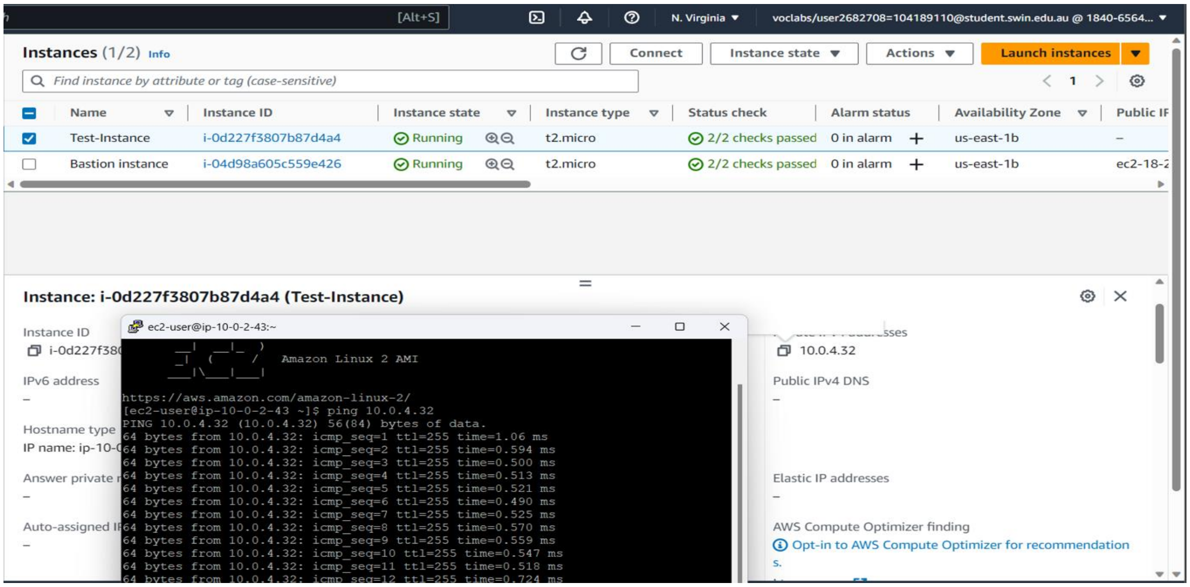

[Alt+S]
N. Virginia ▼
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564... ▼
Actions ▼
Allocate Elastic IP address
Filter Elastic IP addresses

Elastic IP addresses (1/1)

☑	Name	Allocated IPv4 addr...	Type	Allocation ID	Reverse DNS record
☑	–	18.213.32.57	Public IP	eipalloc-0797c43154629c294	–

Fig 2.1 Elastic IP

Pinged the Bastion to test instance and vice versa


[Alt+S]
N. Virginia ▼
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564... ▼
Instances (1/2) Info
Connect
Instance state ▼
Actions ▼
Launch instances ▼
Find instance by attribute or tag (case-sensitive)
1

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IF
☑	Test-Instance	i-0d227f3807b87d4a4	✓ Running	t2.micro	✓ 2/2 checks passed	0 in alarm	us-east-1b	–
☐	Bastion instance	i-04d98a605c559e426	✓ Running	t2.micro	✓ 2/2 checks passed	0 in alarm	us-east-1b	ec2-18-2

Instance: i-0d227f3807b87d4a4 (Test-Instance)

Instance ID
i-0d227f38

IPv6 address
–

Hostname type
IP name: ip-10-0

Answer private r
–

Auto-assigned IP
–

ec2-user@ip-10-0-2-43:~

```
     __|  __|_  )
     _|  (     /   Amazon Linux 2 AMI
    ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-2-43 ~]$ ping 10.0.4.32
PING 10.0.4.32 (10.0.4.32) 56(84) bytes of data.
64 bytes from 10.0.4.32: icmp_seq=1 ttl=255 time=1.06 ms
64 bytes from 10.0.4.32: icmp_seq=2 ttl=255 time=0.594 ms
64 bytes from 10.0.4.32: icmp_seq=3 ttl=255 time=0.500 ms
64 bytes from 10.0.4.32: icmp_seq=4 ttl=255 time=0.513 ms
64 bytes from 10.0.4.32: icmp_seq=5 ttl=255 time=0.521 ms
64 bytes from 10.0.4.32: icmp_seq=6 ttl=255 time=0.490 ms
64 bytes from 10.0.4.32: icmp_seq=7 ttl=255 time=0.525 ms
64 bytes from 10.0.4.32: icmp_seq=8 ttl=255 time=0.570 ms
64 bytes from 10.0.4.32: icmp_seq=9 ttl=255 time=0.559 ms
64 bytes from 10.0.4.32: icmp_seq=10 ttl=255 time=0.547 ms
64 bytes from 10.0.4.32: icmp_seq=11 ttl=255 time=0.518 ms
64 bytes from 10.0.4.32: icmp_seq=12 ttl=255 time=0.724 ms
```

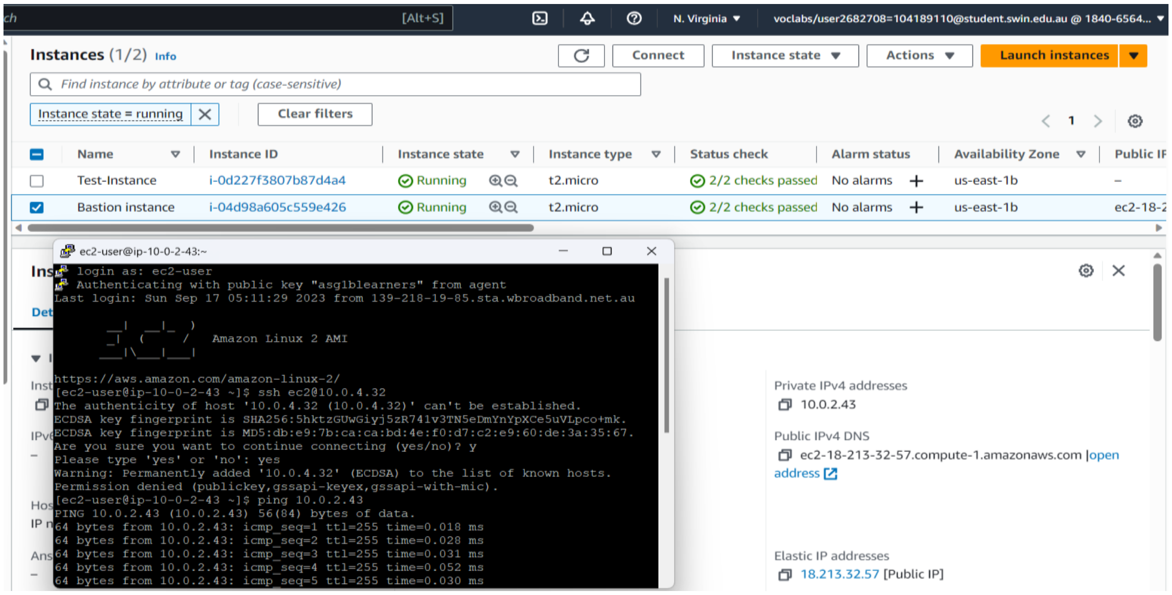
sses
10.0.4.32

Public IPv4 DNS
–

Elastic IP addresses
–

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.

Fig 2.2 ping from test to bastion



☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IF
☐	Test-Instance	i-0d227f3807b87d4a4	✓ Running	t2.micro	✓ 2/2 checks passed	No alarms	us-east-1b	–
☑	Bastion instance	i-04d98a605c559e426	✓ Running	t2.micro	✓ 2/2 checks passed	No alarms	us-east-1b	ec2-18-2

ec2-user@ip-10-0-2-43:~

```
login as: ec2-user
Authenticating with public key "asg1blearners" from agent
Last login: Sun Sep 17 05:11:29 2023 from 139-218-19-85.sta.wbroadband.net.au

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-10-0-2-43 ~]$ ssh ec2@10.0.4.32
The authenticity of host '10.0.4.32 (10.0.4.32)' can't be established.
ECDSA key fingerprint is SHA256:5hktzGUwGiyj5zR741v3TN5eDmYnYpXCe5uVLpco+mk.
ECDSA key fingerprint is MD5:db:e9:7b:ca:ca:bd:4e:f0:d7:c2:e9:60:de:3a:35:67.
Are you sure you want to continue connecting (yes/no)? y
Please type 'yes' or 'no': yes
Warning: Permanently added '10.0.4.32' (ECDSA) to the list of known hosts.
Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
[ec2-user@ip-10-0-2-43 ~]$ ping 10.0.2.43
PING 10.0.2.43 (10.0.2.43) 56(84) bytes of data.
64 bytes from 10.0.2.43: icmp_seq=1 ttl=255 time=0.018 ms
64 bytes from 10.0.2.43: icmp_seq=2 ttl=255 time=0.028 ms
64 bytes from 10.0.2.43: icmp_seq=3 ttl=255 time=0.031 ms
64 bytes from 10.0.2.43: icmp_seq=4 ttl=255 time=0.052 ms
64 bytes from 10.0.2.43: icmp_seq=5 ttl=255 time=0.030 ms
```

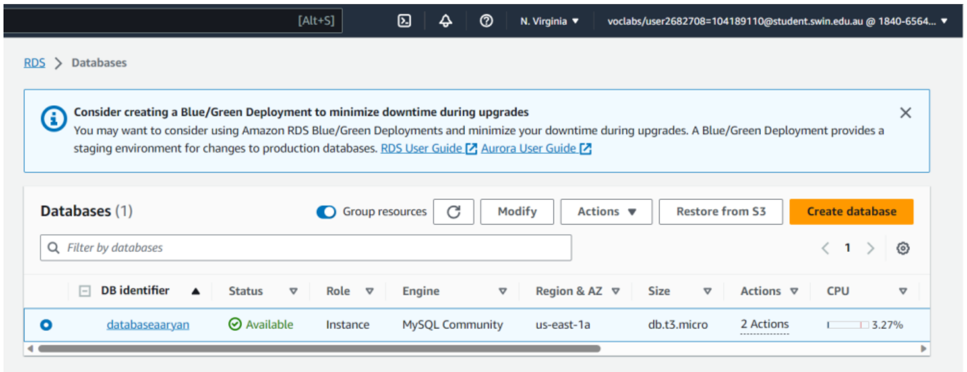
Private IPv4 addresses
10.0.2.43

Public IPv4 DNS
ec2-18-213-32-57.compute-1.amazonaws.com |open address

Elastic IP addresses
18.213.32.57 [Public IP]

Fig 2.3 ping from bastion to test

Creating RDS Database Instance with the configs as per the assignment


[Alt+S]
N. Virginia
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564...
RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades
You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. RDS User Guide Aurora User Guide

DB identifier	Status	Role	Engine	Region & AZ	Size	Actions	CPU
databaseaaryan	Available	Instance	MySQL Community	us-east-1a	db.t3.micro	2 Actions	3.27%

Fig 2.4 creation of RDS

Connecting to PHP MyAdmin

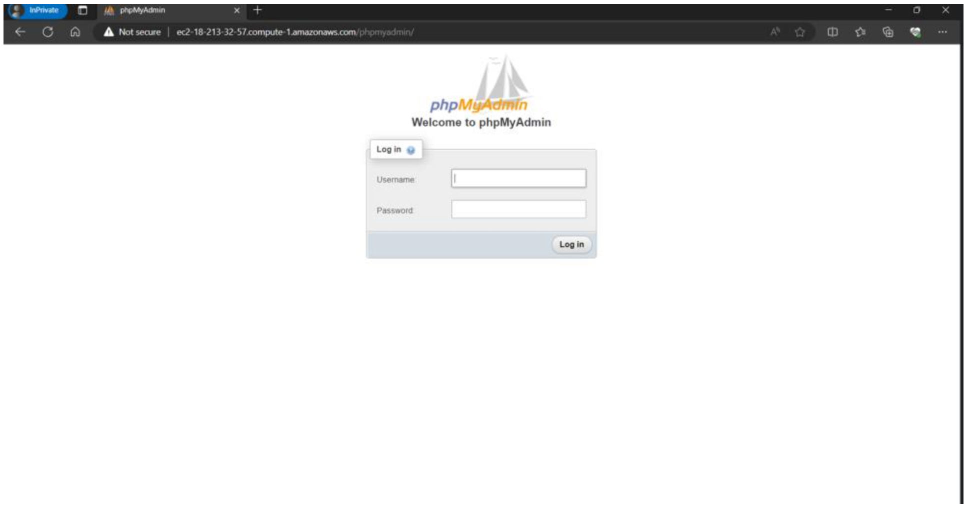
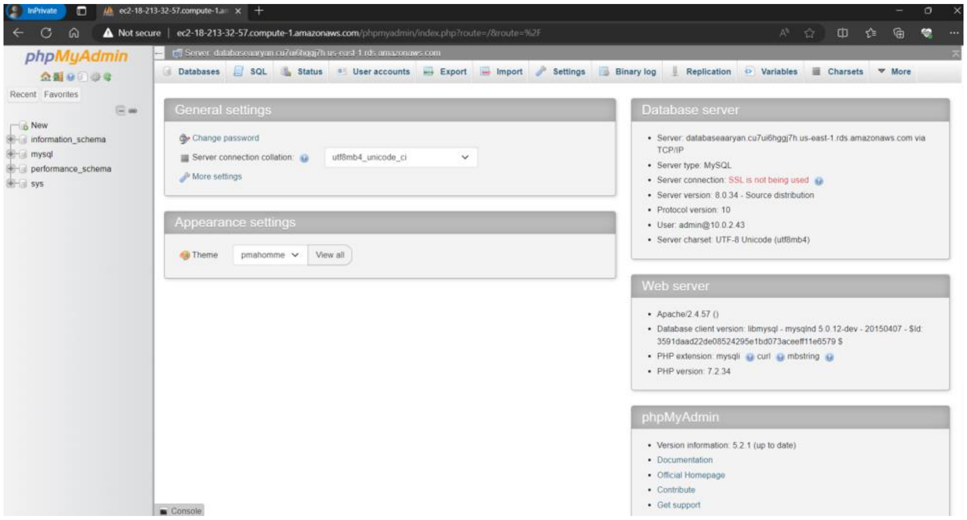


Fig 2.5 login page



General settings

- Change password
- Server connection collation: utf8mb4_unicode_ci
- More settings

Appearance settings

- Theme: pmahomme
- View all

Database server

- Server: databaseaaryan.cu7ui6hggj7h.us-east-1.rds.amazonaws.com via TCP/IP
- Server type: MySQL
- Server connection: SSL is not being used
- Server version: 8.0.34 - Source distribution
- Protocol version: 10
- User: admin@10.0.2.43
- Server charset: UTF-8 Unicode (utf8mb4)

Web server

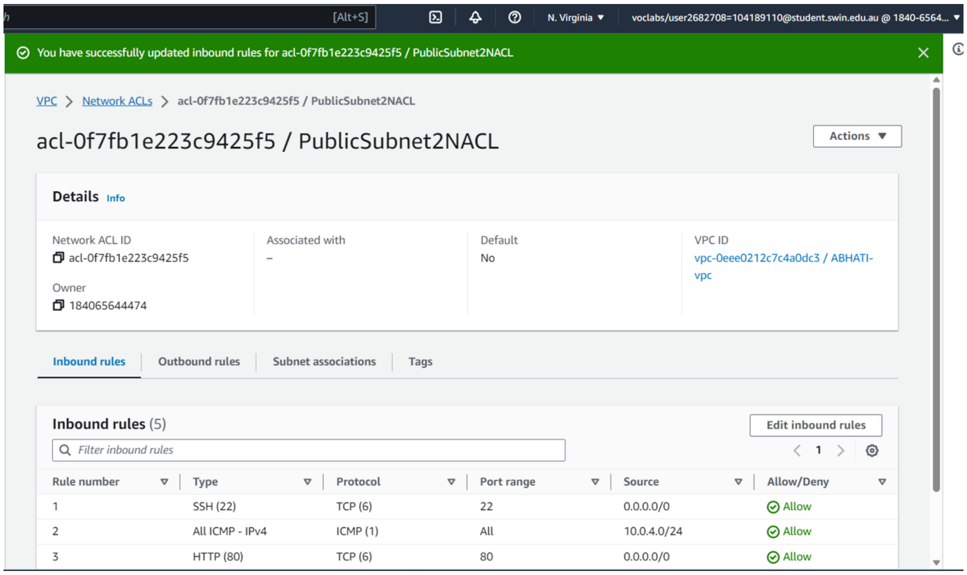
- Apache/2.4.57 ()
- Database client version: libmysql - mysqlnd 5.0.12-dev - 20150407 - $Id: 3591daad22de08524295e1bd073aceeff11e6579 $
- PHP extension: mysqli curl mbstring
- PHP version: 7.2.34

phpMyAdmin

- Version information: 5.2.1 (up to date)
- Documentation
- Official Homepage
- Contribute
- Get support

Fig 2.6 After loging in

Creating NetworkACL as additional layer security with necessary inbound rules



You have successfully updated inbound rules for acl-0f7fb1e223c9425f5 / PublicSubnet2NACL

acl-0f7fb1e223c9425f5 / PublicSubnet2NACL

Details

Network ACL ID	Associated with	Default	VPC ID
acl-0f7fb1e223c9425f5	–	No	vpc-0eee0212c7c4a0dc3 / ABHATI-vpc

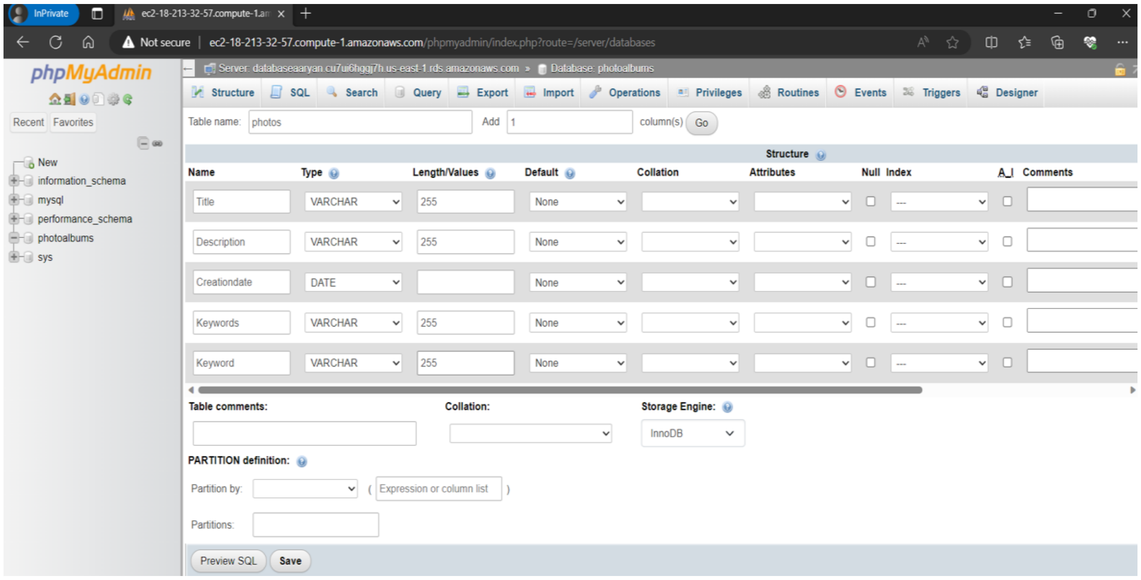
Owner
184065644474

Inbound rules (5)

Rule number	Type	Protocol	Port range	Source	Allow/Deny
1	SSH (22)	TCP (6)	22	0.0.0.0/0	Allow
2	All ICMP - IPv4	ICMP (1)	All	10.0.4.0/24	Allow
3	HTTP (80)	TCP (6)	80	0.0.0.0/0	Allow

Fig 2.7 network ACL

Creating a database in PHPMyAdmin with the required configs



ec2-18-213-32-57.compute-1.amazonaws.com/phpmyadmin/index.php?route=/server/databases

Server: databaseaaryan.cu7ui6hggj7h.us-east-1.rds.amazonaws.com » Database: photoalbums

Table name: photos Add 1 column(s) Go

Structure

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A_I	Comments
Title	VARCHAR	255	None			□	---	□	
Description	VARCHAR	255	None			□	---	□	
Creationdate	DATE		None			□	---	□	
Keywords	VARCHAR	255	None			□	---	□	
Keyword	VARCHAR	255	None			□	---	□	

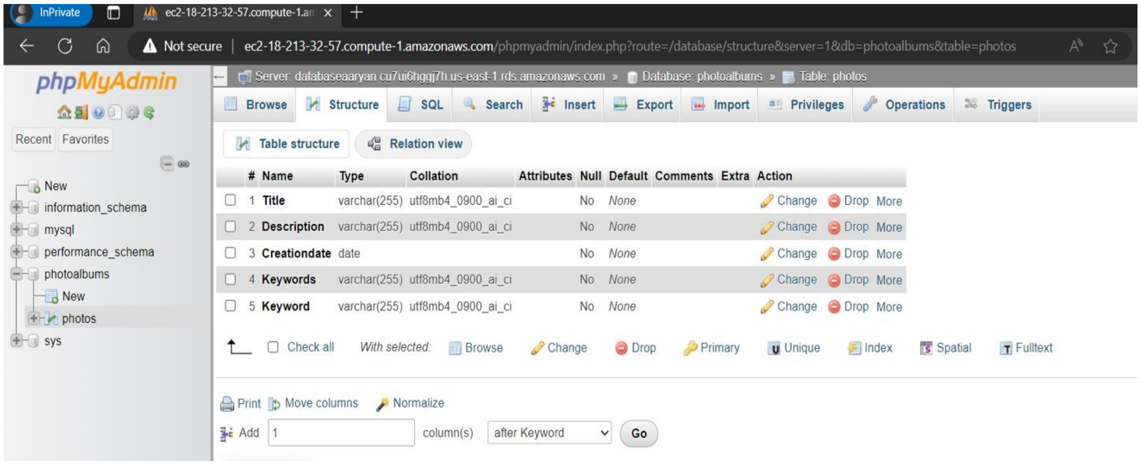
Table comments: Collation: Storage Engine: InnoDB

PARTITION definition:

Partition by: (Expression or column list)

Partitions:

Fig 2.8 creating the columns



ec2-18-213-32-57.compute-1.amazonaws.com/phpmyadmin/index.php?route=/database/structure&server=1&db=photoalbums&table=photos

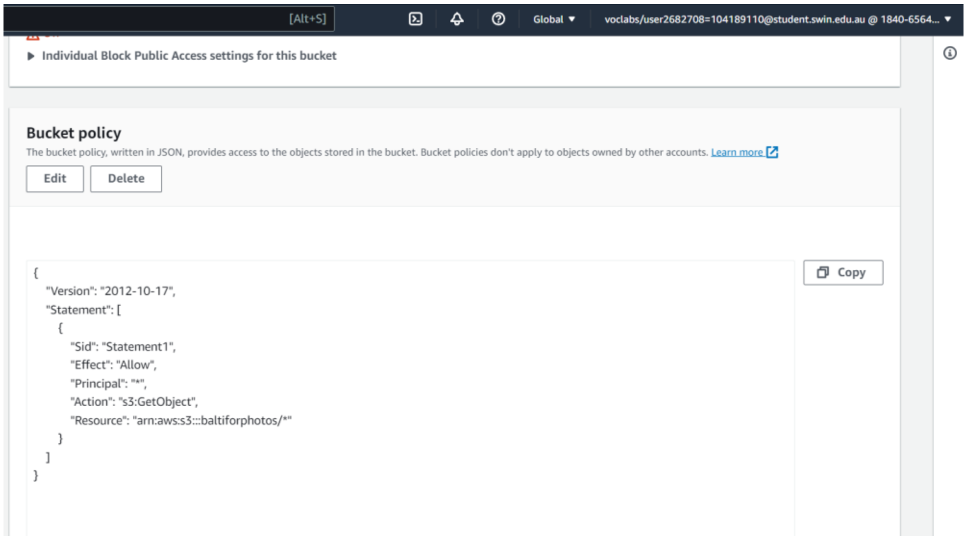
Server: databaseaaryan.cu7ui6hggj7h.us-east-1.rds.amazonaws.com » Database: photoalbums » Table: photos

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Title	varchar(255)	utf8mb4_0900_ai_ci		No	*None*			Change Drop More
2	Description	varchar(255)	utf8mb4_0900_ai_ci		No	*None*			Change Drop More
3	Creationdate	date			No	*None*			Change Drop More
4	Keywords	varchar(255)	utf8mb4_0900_ai_ci		No	*None*			Change Drop More
5	Keyword	varchar(255)	utf8mb4_0900_ai_ci		No	*None*			Change Drop More

Add 1 column(s) after Keyword Go

Fig 2.9 table columns created

Photo storage S3 bucket with manually uploaded photos with the required specifications


[Alt+S]
Global ▾
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564... ▾

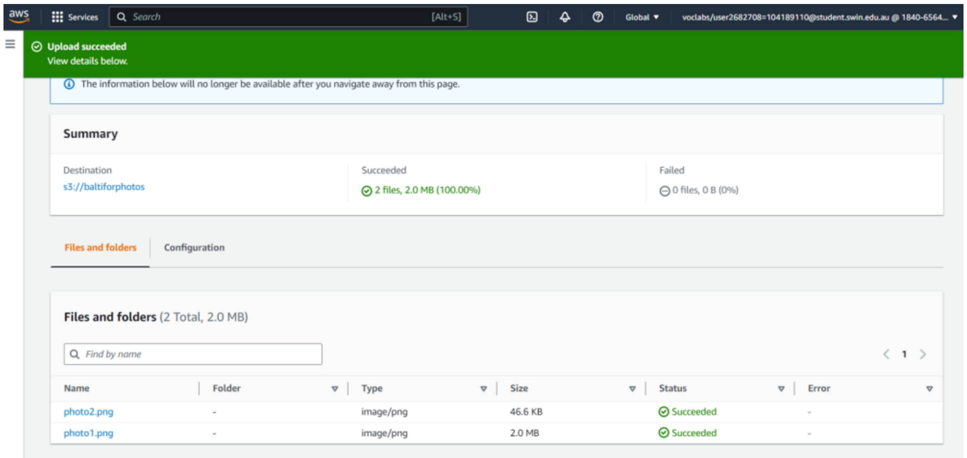
▸ Individual Block Public Access settings for this bucket

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Statement1",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::baltiforphotos/*"
    }
  ]
}
```

Fig 2.10 editing the bucket policy


aws
Services
Search
[Alt+S]
Global ▾
voclabs/user2682708=104189110@student.swin.edu.au @ 1840-6564... ▾

Upload succeeded
View details below.

The information below will no longer be available after you navigate away from this page.

Summary

Destination: s3://baltiforphotos

Succeeded: 2 files, 2.0 MB (100.00%)

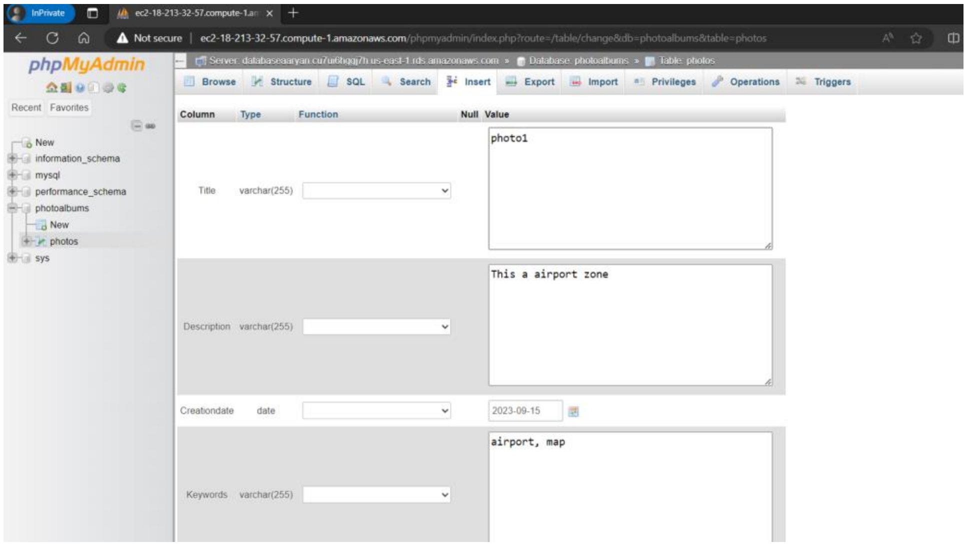
Failed: 0 files, 0 B (0%)

Files and folders (2 Total, 2.0 MB)

Name	Folder	Type	Size	Status	Error
photo2.png	-	image/png	46.6 KB	✓ Succeeded	-
photo1.png	-	image/png	2.0 MB	✓ Succeeded	-

Fig 3.1 successful upload of the 2 photos into S3 bucket

Putting in meta-data Photo meta-data in RDS Database

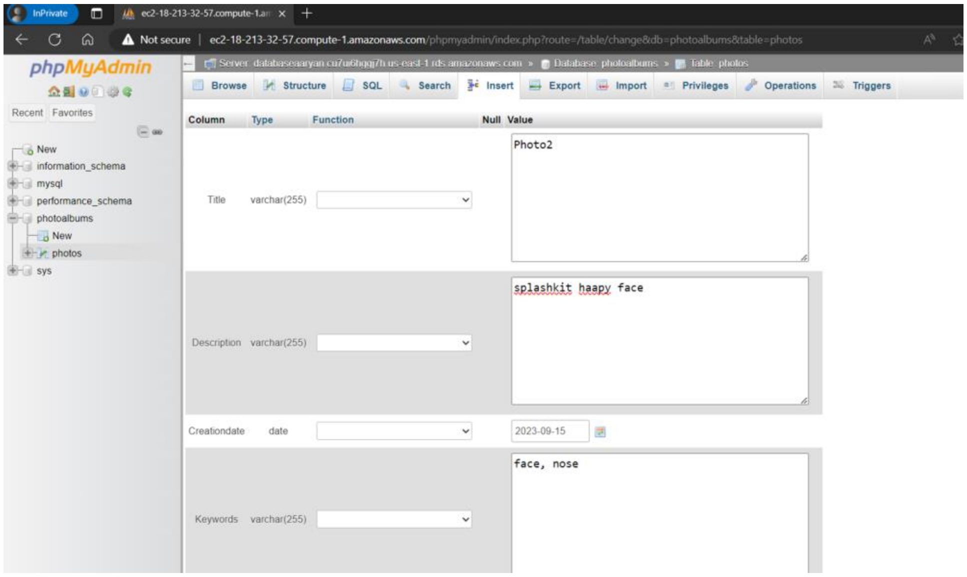


ec2-18-213-32-57.compute-1.amazonaws.com/phpmyadmin/index.php?route=/table/change&db=photoalbums&table=photos

Server: databaseaaryan.cu7ui6hqgj7h.us-east-1.rds.amazonaws.com » Database: photoalbums » Table: photos

Column	Type	Function	Null	Value
Title	varchar(255)			photo1
Description	varchar(255)			This a airport zone
Creationdate	date			2023-09-15
Keywords	varchar(255)			airport, map

Fig 3.2 Creation of and input of meta data for photo 1



ec2-18-213-32-57.compute-1.amazonaws.com/phpmyadmin/index.php?route=/table/change&db=photoalbums&table=photos

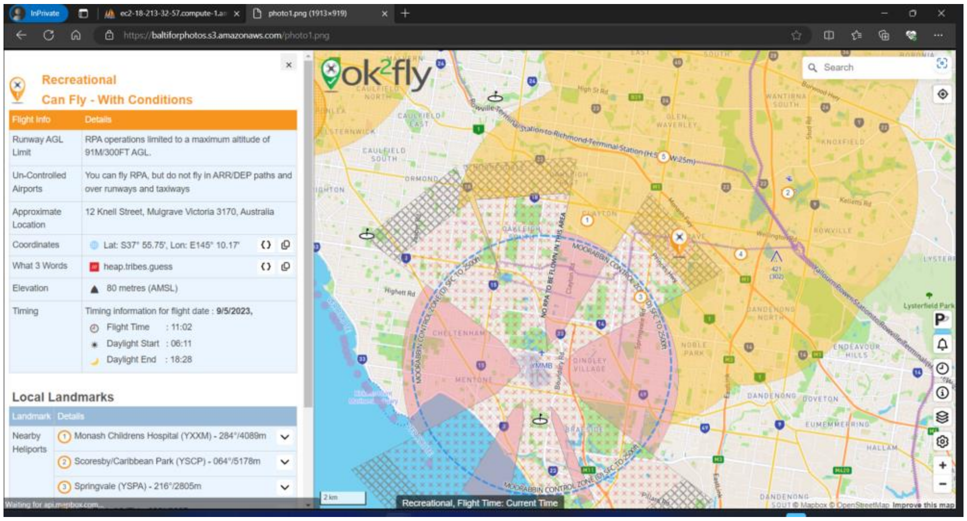
Server: databaseaaryan.cu7ui6hqgj7h.us-east-1.rds.amazonaws.com » Database: photoalbums » Table: photos

Column	Type	Function	Null	Value
Title	varchar(255)			Photo2
Description	varchar(255)			splashkit haapy face
Creationdate	date			2023-09-15
Keywords	varchar(255)			face, nose

Fig 3.3 Creation of and input of meta data for photo 1

Photo 1

Checked using the link --- (https://baltiforphotos.s3.amazonaws.com/photo1.png)


InPrivate
ec2-18-213-32-57.compute-1.an
photo1.png (1913×919)
https://baltiforphotos.s3.amazonaws.com/photo1.png
ok²fly
Search
2 km
Recreational, Flight Time: Current Time
Waiting for api.mapbox.com...

Recreational
Can Fly - With Conditions

Flight Info	Details
Runway AGL Limit	RPA operations limited to a maximum altitude of 91M/300FT AGL.
Un-Controlled Airports	You can fly RPA, but do not fly in ARR/DEP paths and over runways and taxiways
Approximate Location	12 Knell Street, Mulgrave Victoria 3170, Australia
Coordinates	Lat: S37° 55.75', Lon: E145° 10.17'
What 3 Words	heap.tribes.guess
Elevation	▲ 80 metres (AMSL)
Timing	Timing information for flight date : **9/5/2023,** Flight Time : 11:02 Daylight Start : 06:11 Daylight End : 18:28

Local Landmarks

Landmark	Details
Nearby Heliports	① Monash Childrens Hospital (YXXM) - 284°/4089m
	② Scoresby/Caribbean Park (YSCP) - 064°/5178m
	③ Springvale (YSPA) - 216°/2805m

Fig 3.4 photo of airport hosted on S3 bucket

Photo 2

Checked using the link --- (https://baltiforphotos.s3.amazonaws.com/photo2.png)

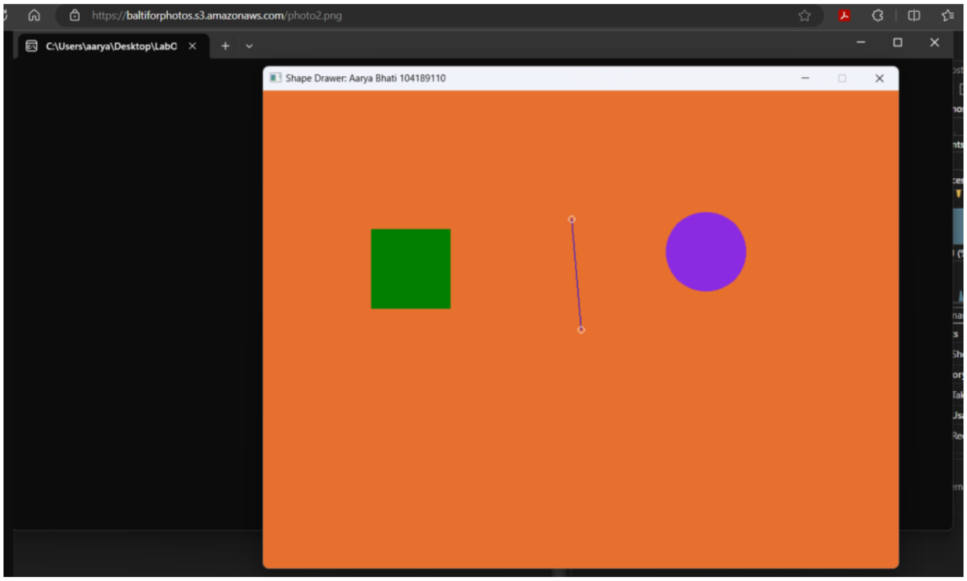
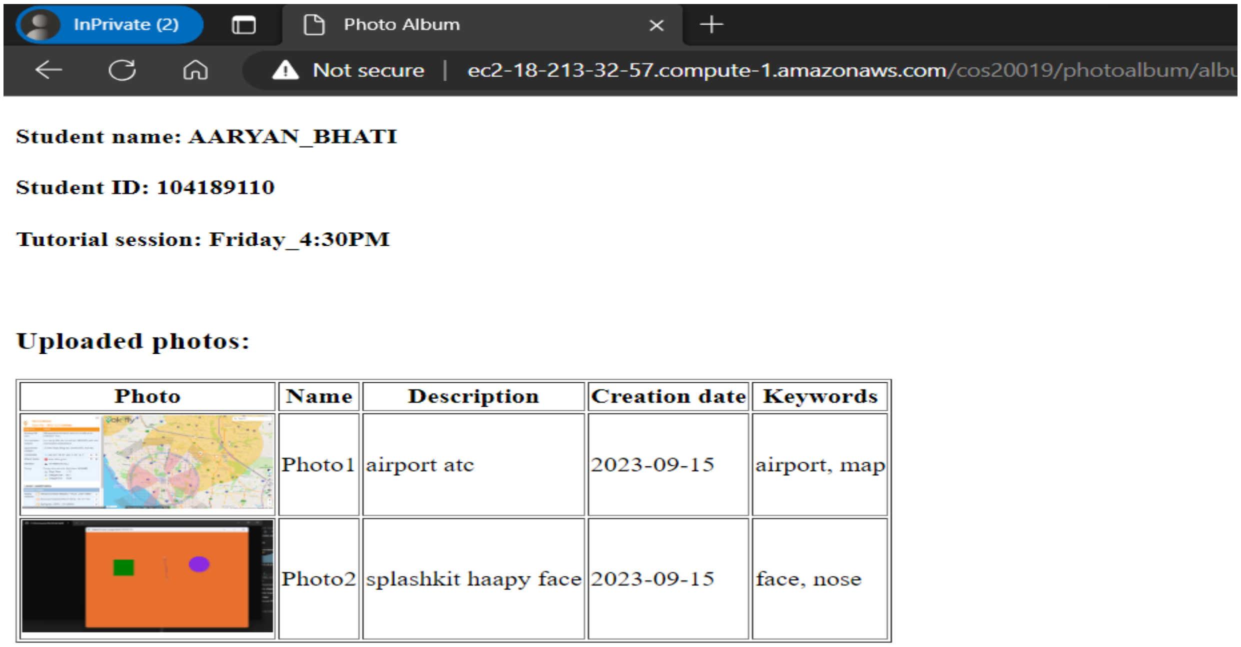

https://baltiforphotos.s3.amazonaws.com/photo2.png
C:\Users\aarya\Desktop\LabC
Shape Drawer: Aarya Bhati 104189110

Fig 3.5 photo 2 hosted on S3 bucket

Photo Album website functionality using website and the showing of the related metadata displayed

(http://ec2-18-213-32-57.compute-1.amazonaws.com/cos20019/photoalbum/album.php)


InPrivate (2)
Photo Album
Not secure
ec2-18-213-32-57.compute-1.amazonaws.com/cos20019/photoalbum/albu

Student name: AARYAN_BHATI

Student ID: 104189110

Tutorial session: Friday_4:30PM

Uploaded photos:

Photo	Name	Description	Creation date	Keywords
	Photo1	airport atc	2023-09-15	airport, map
	Photo2	splashkit haapy face	2023-09-15	face, nose

Fig 3.6 showing website with pho and the respective metadata

Challenges faced

1. Configuration of VPC subnets: this required VPC subnets connections with a public route table, which is connected to an internet gateway. To fulfill the assignment requirements.
2. The proper order of steps to take when creating an RDS subnet was another problem. An RDS subnet needed to be setup prior to installing the RDS itself. An in-depth knowledge of the dependencies was necessary for this, along with rigorous preparation.
3. Another issue was determining the right sequence of actions to do while setting up an RDS subnet. It was necessary to set up an RDS subnet before installing the RDS itself. This required a thorough understanding of the dependencies, as well as meticulous planning.