



# ASSIGNMENT 1B

Cloud computing architecture

Class Thursday – 16.30  
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LINK TO PHOTO ALBUM:

<http://ec2-18-235-17-10.compute-1.amazonaws.com/cos80001/photoalbum/album.php>

DATABASE RECORD, SCREENSHOTS SHOW THAT I HAVE BEEN ABLE TO WORK WITH CLOUD DATABASE.

The screenshot shows the phpMyAdmin interface for the 'photos' table in the 'assignment2' database. The table contains two rows of data:

PhotoTitle	Description	CreationDate	Keywords	PhotoRef
avatar	My avatar	2022-09-17	avatar, face	https://h7301bucket.s3.amazonaws.com/Screen+Shot+2...
Bear	This is a bear	2022-09-17	bear animal	https://h7301bucket.s3.amazonaws.com/IMG_7024.PNG

The screenshot shows the 'Table structure' view for the 'photos' table. The table has five columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	PhotoTitle	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	PhotoRef	varchar(255)	utf8mb4_0900_ai_ci		No	None			Change Drop More

The screenshot shows the AWS RDS Instance Configuration page for the instance 'database-1'. The instance is of class 'db.t3.micro' and is running on Amazon Linux 2. The storage is configured with a 20 GiB General Purpose SSD (gp2) volume. The instance is in the 'Available' state and has no backups.

Configuration	Instance class	Storage
DB instance ID: database-1	Instance class: db.t3.micro	Encryption: Not enabled
Engine version: 8.0.25	vCPU: 2	Storage type: General Purpose SSD (gp2)
DB name: assignment2	RAM: 1 GB	Storage: 20 GiB
License model: General Public License	Availability: Master username: admin	Provisioned IOPS: -
Option groups: default:mysql-8-0 (In sync)		Storage autoscaling: Enabled

## SCREENSHOTS SHOW THAT I HAVE BEEN ABLE TO PING WEB SERVER FROM TEST INSTANCE

sensitive)

	Instance state	Instance
7661935	Terminated	t2.micro
i4c91a77	Running	t2.micro
29d4bbe3	Running	t2.micro

(Web server instance)

Public IPv4 address  
18.235.17.10 | [open address](#)

Instance state  
Running

Public IPv4 DNS  
ec2-18-235-17-10.compute-1.amazonaws.com |

```
Downloads — ec2-user@ip-10-0-4-30:~ — ssh -A ec2-user@18.235.17.10...
--|  --|  )
_| (  --|  /  Amazon Linux 2 AMI
---| \ ---| ---|

https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 11 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-10-0-4-30 ~]$ ping 10.0.2.228
PING 10.0.2.228 (10.0.2.228) 56(84) bytes of data.
 64 bytes from 10.0.2.228: icmp_seq=1 ttl=255 time=0.329 ms
 64 bytes from 10.0.2.228: icmp_seq=2 ttl=255 time=0.442 ms
 64 bytes from 10.0.2.228: icmp_seq=3 ttl=255 time=0.484 ms
 64 bytes from 10.0.2.228: icmp_seq=4 ttl=255 time=0.464 ms
 64 bytes from 10.0.2.228: icmp_seq=5 ttl=255 time=0.561 ms
 64 bytes from 10.0.2.228: icmp_seq=6 ttl=255 time=0.500 ms
 64 bytes from 10.0.2.228: icmp_seq=7 ttl=255 time=0.472 ms
 64 bytes from 10.0.2.228: icmp_seq=8 ttl=255 time=0.443 ms
 64 bytes from 10.0.2.228: icmp_seq=9 ttl=255 time=0.449 ms
^C
--- 10.0.2.228 ping statistics ---
 9 packets transmitted, 9 received, 0% packet loss, time 8190ms
 rtt min/avg/max/mdev = 0.329/0.460/0.561/0.061 ms
[ec2-user@ip-10-0-4-30 ~]$
```

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Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Test instance	i-06285f77644c91a77	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
<input checked="" type="checkbox"/>	Web server ins...	i-09139654729d4bbe3	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b

### Instance: i-09139654729d4bbe3 (Web server instance)

#### Instance summary Info

Instance ID  
i-09139654729d4bbe3 (Web server instance)

IPv6 address  
-

Hostname type  
IP name: ip-10-0-2-228.ec2.internal

Public IPv4 address  
18.235.17.10 | [open address](#)

Instance state  
Running

Private IP DNS name (IPv4 only)  
ip-10-0-2-228.ec2.internal

Private IPv4 addresses  
10.0.2.228

Public IPv4 DNS  
ec2-18-235-17-10.compute-1.amazonaws.com |  
[open address](#)

## PROGRESS SCREENSHOT:

## VPC CONFIG:

## CONFIG VPC WITH 4 SUBNETS:

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**Your VPCs (1/2)** Info Refresh Actions Create VPC

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-05a31cd8d0edbe5dc	Available	172.31.0.0/16	-
<input checked="" type="checkbox"/> HPhamVPC-vpc	vpc-0c09159de26828d02	Available	10.0.0.0/16	-

**Details**

VPC ID vpc-0c09159de26828d02	State Available	DNS hostnames Enabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0619f7b764c15bcb4	Main route table rtb-039c8bf244a1460ff	Main network ACL acl-00fe39ccc126e5655
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Route 53 Resolver DNS Firewall rule group	Owner ID		

Have to check the infrastructure deployment carefully when deploy 4 subnets for the VPC

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**Subnets (1/10)** Info Refresh Actions Create subnet

Filter subnets

Name	Subnet ID	State	IPv4 CIDR	IPv6 CIDR
<input checked="" type="checkbox"/> HPhamVPC-subnet...	subnet-0ad232901b8147dda	Available	vpc-0c09159de26828d02   HP...	10.0.2.0/24
<input type="checkbox"/> -	subnet-0007bbfe34d7a840c	Available	vpc-05a31cd8d0edbe5dc	172.31.32.0/20
<input type="checkbox"/> -	subnet-00a922bdc61c6125	Available	vpc-05a31cd8d0edbe5dc	172.31.64.0/20
<input type="checkbox"/> HPhamVPC-subnet...	subnet-06b987ff922e1785a	Available	vpc-0c09159de26828d02   HP...	10.0.4.0/24
<input type="checkbox"/> -	subnet-0342298f8e95b7495	Available	vpc-05a31cd8d0edbe5dc	172.31.48.0/20
<input type="checkbox"/> HPhamVPC-subnet...	subnet-05e5ba767092b8402	Available	vpc-0c09159de26828d02   HP...	10.0.3.0/24
<input type="checkbox"/> -	subnet-07688fc59dc3b1162	Available	vpc-05a31cd8d0edbe5dc	172.31.16.0/20
<input type="checkbox"/> HPhamVPC-subnet...	subnet-0f1068a2439dcc0aa	Available	vpc-0c09159de26828d02   HP...	10.0.1.0/24
<input type="checkbox"/> -	subnet-0a0632103682ad39	Available	vpc-05a31cd8d0edbe5dc	172.31.80.0/20

**Details**

Subnet ID subnet-0ad232901b8147dda	Subnet ARN arn:aws:ec2:us-east-1:600484741025:subnet/subnet-0ad232901b8147dda	State Available	IPv4 CIDR 10.0.2.0/24
Available IPv4 addresses 250	IPv6 CIDR	Availability Zone us-east-1b	Availability Zone ID use1-az6

Check again the subnet IPv4 carefully

## CORRECT PUBLIC AND PRIVATE ROUTING TABLES WITH CORRECT SUBNET ASSOCIATIONS

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### Route tables (1/5) Info

Filter route tables

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-039c8bf244a1460ff	-	-	Yes	vpc-0c09159de26828d02   HP...
<input checked="" type="checkbox"/>	HPhamVPC-rtb-pu...	rtb-0aa6f8234bae70a4e	2 subnets	-	No	vpc-0c09159de26828d02   HP...
<input type="checkbox"/>	-	rtb-0ad4cc9753c500c84	-	-	Yes	vpc-05a31cd8d0edbe5dc
<input type="checkbox"/>	HPhamVPC-rtb-pri...	rtb-0204b014a98c818ca	subnet-06b987ff922e1...	-	No	vpc-0c09159de26828d02   HP...
<input type="checkbox"/>	HPhamVPC-rtb-pri...	rtb-0ad849022180f7d71	subnet-05e5ba767092b...	-	No	vpc-0c09159de26828d02   HP...

### Routes (2)

Filter routes Both

Destination	Target	Status	Propagated
0.0.0.0/0	igw-018affc6ce2253db8	Active	No
10.0.0.0/16	local	Active	No

Check the correct subnet associations

SECURITY GROUPS PROPERLY CONFIGURED AND ATTACHED.

## TESTINSTANCESG

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### Security Groups (1/8) Info

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	-	sg-0d6418111a90c9e61	TestInstanceSG	vpc-0c09159de26828d02	test instance	60048474
<input type="checkbox"/>	-	sg-003eb238cf0c8b445	WebServer-SG	vpc-05a31cd8d0edbe5dc	WebServer-SG created	60048474
<input type="checkbox"/>	-	sg-0c3917d7fb6c4032e	launch-wizard-1	vpc-05a31cd8d0edbe5dc	launch-wizard-1 create...	60048474
<input type="checkbox"/>	-	sg-020f934f9bd84c38d	default	vpc-05a31cd8d0edbe5dc	default VPC security gr...	60048474
<input type="checkbox"/>	-	sg-09294aa63754da831	DBServerSG	vpc-0c09159de26828d02	database server	60048474
<input type="checkbox"/>	-	sg-036496ccf062db1bf	WebServerSG	vpc-0c09159de26828d02	Web server	60048474
<input type="checkbox"/>	-	sg-0f9659e6a341dc32e	default	vpc-0c09159de26828d02	default VPC security gr...	60048474

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

### Inbound rules (1/1)

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range
<input checked="" type="checkbox"/>	-	sgr-0e1e676f7ba87a808	IPv4	All traffic	All	All

Creating test instance security group

## WEBSERVERSG

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**Security Groups (1/8)** Info Actions Export security groups to CSV Create security group

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-0d6418111a90c9e61	TestInstanceSG	vpc-0c09159de26828d02	test instance	60048474
<input type="checkbox"/>	-	sg-003eb238cf0c8b445	WebServer-SG	vpc-05a31cd8d0edbe5dc	WebServer-SG created	60048474
<input type="checkbox"/>	-	sg-0c3917d7fb6c4032e	launch-wizard-1	vpc-05a31cd8d0edbe5dc	launch-wizard-1 create...	60048474
<input type="checkbox"/>	-	sg-020f934f9bd84c38d	default	vpc-05a31cd8d0edbe5dc	default VPC security gr...	60048474
<input type="checkbox"/>	-	sg-09294aa63754da831	DBServerSG	vpc-0c09159de26828d02	database server	60048474
<input checked="" type="checkbox"/>	-	sg-036496ccf062db1bf	WebServerSG	vpc-0c09159de26828d02	Web server	60048474
<input type="checkbox"/>	-	sg-0f9659e6a341dc32e	default	vpc-0c09159de26828d02	default VPC security gr...	60048474

**Inbound rules (3)** Manage tags Edit inbound rules

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range
<input type="checkbox"/>	-	sgr-06d628e1581d34...	IPv4	SSH	TCP	22
<input type="checkbox"/>	-	sgr-0fa9573c359a896e6	-	All ICMP - IPv4	ICMP	All
<input type="checkbox"/>	-	sgr-061325f84b3c75ae1	IPv4	HTTP	TCP	80

Creating web server security group

## DBSERVERSG

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**Security Groups (1/8)** Info Actions Export security groups to CSV Create security group

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-0d6418111a90c9e61	TestInstanceSG	vpc-0c09159de26828d02	test instance	60048474
<input type="checkbox"/>	-	sg-003eb238cf0c8b445	WebServer-SG	vpc-05a31cd8d0edbe5dc	WebServer-SG created	60048474
<input type="checkbox"/>	-	sg-0c3917d7fb6c4032e	launch-wizard-1	vpc-05a31cd8d0edbe5dc	launch-wizard-1 create...	60048474
<input type="checkbox"/>	-	sg-020f934f9bd84c38d	default	vpc-05a31cd8d0edbe5dc	default VPC security gr...	60048474
<input checked="" type="checkbox"/>	-	sg-09294aa63754da831	DBServerSG	vpc-0c09159de26828d02	database server	60048474
<input type="checkbox"/>	-	sg-036496ccf062db1bf	WebServerSG	vpc-0c09159de26828d02	Web server	60048474
<input type="checkbox"/>	-	sg-0f9659e6a341dc32e	default	vpc-0c09159de26828d02	default VPC security gr...	60048474

**Inbound rules (1/1)** Manage tags Edit inbound rules

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range
<input checked="" type="checkbox"/>	-	sgr-0a9b67fb497b7c9d9	-	MYSQL/Aurora	TCP	3306

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Creating the database server security group

## CREATE TWO EC2 INSTANCES, A TEST INSTANCE AND A BASTION/WEB SERVER INSTANCE

### WEB SERVER INSTANCE

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information. Below the navigation bar, the 'Instances' page is displayed, showing a list of two instances: 'Test instance' and 'Web server ins...'. The 'Web server ins...' instance is selected. Below the list, the details for the 'Web server instance' (ID: i-09139654729d4bbe3) are shown. The details include the instance summary, public IPv4 address (18.235.17.10), private IPv4 addresses (10.0.2.228), instance state (Running), public IPv4 DNS (ec2-18-235-17-10.compute-1.amazonaws.com), private IP DNS name (ip-10-0-2-228.ec2.internal), instance type (t2.micro), and elastic IP addresses (18.235.17.10 [Public IP]).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Test instance	i-06285f77644c91a77	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
Web server ins...	i-09139654729d4bbe3	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b

**Instance: i-09139654729d4bbe3 (Web server instance)**

**Instance summary**

Instance ID: i-09139654729d4bbe3 (Web server instance)

Public IPv4 address: 18.235.17.10 | [open address](#)

Private IPv4 addresses: 10.0.2.228

Instance state: Running

Public IPv4 DNS: ec2-18-235-17-10.compute-1.amazonaws.com | [open address](#)

Private IP DNS name (IPv4 only): ip-10-0-2-228.ec2.internal

Instance type: t2.micro

Elastic IP addresses: 18.235.17.10 [Public IP]

Note that web server instance must be in the correct subnet us-east 1b

### TEST INSTANCE

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information. Below the navigation bar, the 'Instances' page is displayed, showing a list of two instances: 'Test instance' and 'Web server ins...'. The 'Test instance' is selected. Below the list, the details for the 'Test instance' (ID: i-06285f77644c91a77) are shown. The details include the instance summary, public IPv4 address (18.235.17.10), private IPv4 addresses (10.0.2.228), instance state (Running), public IPv4 DNS (ec2-18-235-17-10.compute-1.amazonaws.com), private IP DNS name (ip-10-0-2-228.ec2.internal), instance type (t2.micro), and elastic IP addresses (18.235.17.10 [Public IP]).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Test instance	i-06285f77644c91a77	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
Web server ins...	i-09139654729d4bbe3	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b

**Instance: i-06285f77644c91a77 (Test instance)**

**Instance summary**

Instance ID: i-06285f77644c91a77 (Test instance)

Public IPv4 address: 18.235.17.10 | [open address](#)

Private IPv4 addresses: 10.0.2.228

Instance state: Running

Public IPv4 DNS: ec2-18-235-17-10.compute-1.amazonaws.com | [open address](#)

Private IP DNS name (IPv4 only): ip-10-0-2-228.ec2.internal

Instance type: t2.micro

Elastic IP addresses: 18.235.17.10 [Public IP]

Note that test instance must be in the correct subnet us-east 1b



## ELASTIC IP ADDRESS ADDED TO WEB SERVER INSTANCE

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### Elastic IP addresses (1/4)

Filter Elastic IP addresses

	Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DNS record
<input checked="" type="checkbox"/>	-	18.235.17.10	Public IP	eipalloc-0e38d9f8b5cea3daa	-
<input type="checkbox"/>	-	34.232.182.155	Public IP	eipalloc-0abe9412abad02d57	-
<input type="checkbox"/>	-	44.206.127.56	Public IP	eipalloc-030e854a1edab16fd	-
<input type="checkbox"/>	HPhamVPC-eip-us-east-1a	54.152.159.121	Public IP	eipalloc-0289739d9b0a7bbd4	-

18.235.17.10

Summary Tags

#### Summary

Allocated IPv4 address 18.235.17.10	Type Public IP	Allocation ID eipalloc-0e38d9f8b5cea3daa	Reverse DNS record -
Association ID eipassoc-0f9cd0eb261179b84	Scope VPC	Associated instance ID i-09139654729d4bbe3	Private IP address 10.0.2.228
Network interface ID	Network interface owner account ID	Public DNS	NAT Gateway ID

Add a new elastic ip to web instance

## RDS DATABASE INSTANCE CONFIGURATION:

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### Instance

<b>Configuration</b> DB instance ID database-1 Engine version 8.0.25 DB name assignment2 License model General Public License Option groups default:mysql-8-0 In sync Amazon Resource Name (ARN) arn:aws:rds:us-east-1:600484741025:db:database-1 Resource ID db-ElWA3VMZUKYMZBDL765VUSGWUY	<b>Instance class</b> Instance class db.t3.micro vCPU 2 RAM 1 GB <b>Availability</b> Master username admin IAM DB authentication Not enabled Multi-AZ No Secondary Zone -	<b>Storage</b> Encryption Not enabled Storage type General Purpose SSD (gp2) <b>Storage</b> 20 GiB Provisioned IOPS - Storage autoscaling Enabled Maximum storage threshold 1000 GiB	<b>Performance Insights</b> Performance Insights enabled Turned off <b>Database activity stream</b> Status Stopped temporarily Audit policy status -
---	--	--	---

Configuring the RDS instance

## NETWORK ACL PROPERLY CONFIGURED AND ATTACHED

### INBOUND RULES

Search for services, features, blogs, docs, and more [Option+S] N. Virginia voclabs/user2068076=102643407@student.swin.edu.au @ 6004-8474...

#### Network ACLs (1/3) Info

Filter network ACLs

Name	Network ACL ID	Associated with	Default	VPC ID
<input checked="" type="checkbox"/> PublicSubnet2NACL	acl-03da20ea2429092...	-	No	vpc-0c09159de26828d02 / HPhamV
<input type="checkbox"/> -	acl-0c0dad5ad09d61215	6 Subnets	Yes	vpc-05a31cd8d0edbe5dc
<input type="checkbox"/> -	acl-00fe39ccc126e5655	4 Subnets	Yes	vpc-0c09159de26828d02 / HPhamV

#### Inbound rules (6)

Filter inbound rules

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
4	HTTPS (443)	TCP (6)	443	0.0.0.0/0	✓ Allow
5	Custom TCP	TCP (6)	1024 - 65535	0.0.0.0/0	✓ Allow
*	All traffic	All	All	0.0.0.0/0	✗ Deny

Note: Port range using Nat gateway range

### OUTBOUND RULES

Search for services, features, blogs, docs, and more [Option+S] N. Virginia voclabs/user2068076=102643407@student.swin.edu.au @ 6004-8474...

#### Network ACLs (1/3) Info

Filter network ACLs

Name	Network ACL ID	Associated with	Default	VPC ID
<input checked="" type="checkbox"/> PublicSubnet2NACL	acl-03da20ea2429092...	-	No	vpc-0c09159de26828d02 / HPhan
<input type="checkbox"/> -	acl-0c0dad5ad09d61215	6 Subnets	Yes	vpc-05a31cd8d0edbe5dc
<input type="checkbox"/> -	acl-00fe39ccc126e5655	4 Subnets	Yes	vpc-0c09159de26828d02 / HPhan

You can now check network connectivity with Reachability Analyzer [Run Reachability Analyzer](#)

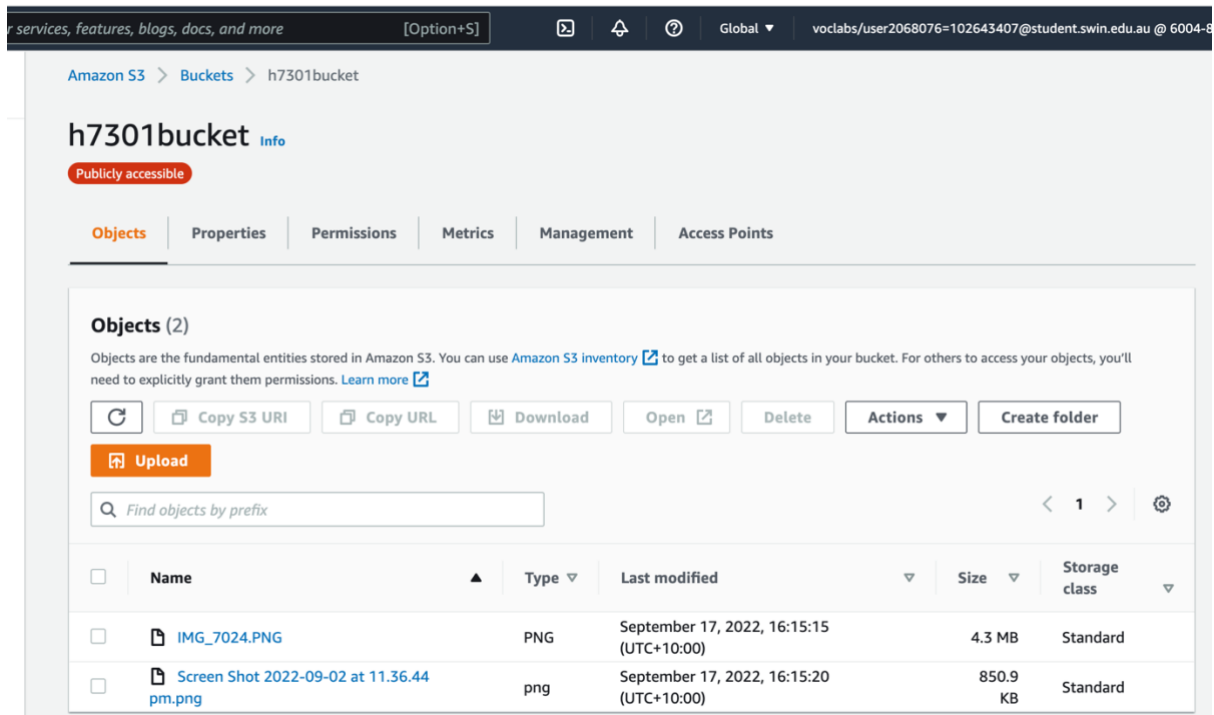
#### Outbound rules (2)

Filter outbound rules

Rule number	Type	Protocol	Port range	Destination	Allow/Deny
1	All traffic	All	All	0.0.0.0/0	✓ Allow
*	All traffic	All	All	0.0.0.0/0	✗ Deny

Note: Outbound rules not really specified in the assignment request. Allow all traffic

## PHOTO STORAGE IN S3 BUCKET IS PUBLICLY ACCESSIBLE



services, features, blogs, docs, and more [Option+S]

Amazon S3 > Buckets > h7301bucket

### h7301bucket [Info](#)

Publicly accessible

Objects Properties Permissions Metrics Management Access Points

**Objects (2)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

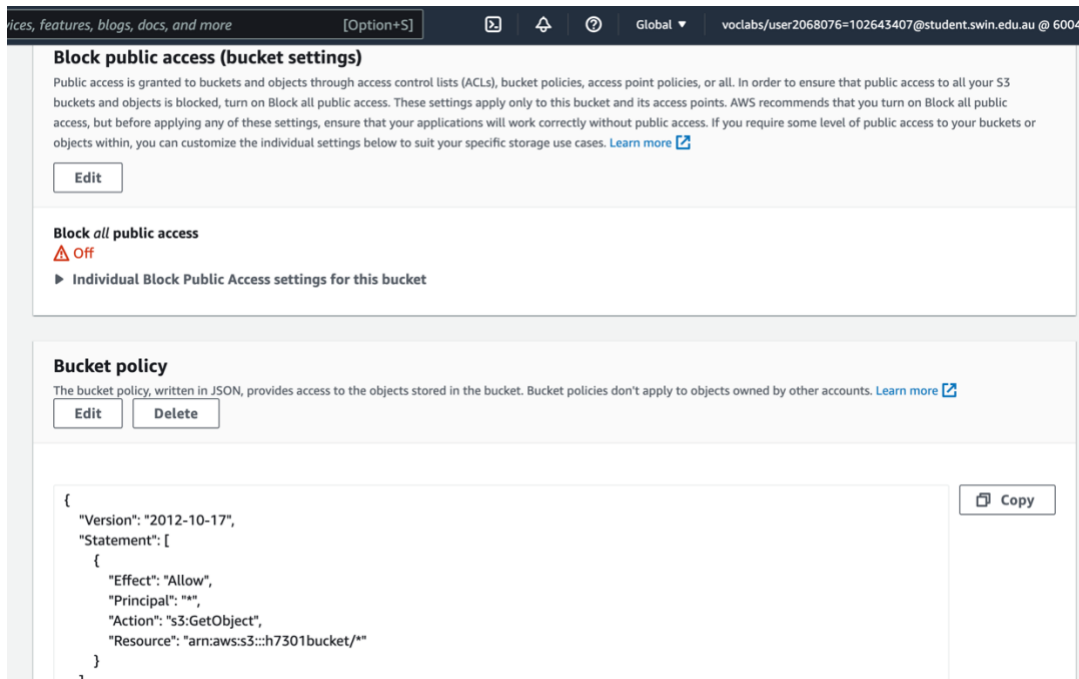
[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#)

[Upload](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">IMG_7024.PNG</a>	PNG	September 17, 2022, 16:15:15 (UTC+10:00)	4.3 MB	Standard
<input type="checkbox"/>	<a href="#">Screen Shot 2022-09-02 at 11.36.44 pm.png</a>	png	September 17, 2022, 16:15:20 (UTC+10:00)	850.9 KB	Standard

Added the photo manually and check if the photo is access publicly

## BUCKET POLICY:



ices, features, blogs, docs, and more [Option+S]

Global voclabs/user2068076=102643407@student.swin.edu.au @ 6004-8

### Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

[Edit](#)

**Block all public access**

[Off](#)

► 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](#)

[Edit](#) [Delete](#)

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::h7301bucket/*"
    }
  ]
}
```

[Copy](#)

Configure the policy of bucket to make it public

## PHOTO URL IN S3 BUCKET STORED IN RDS DATABASE META-DATA

ec2-18-235-17-10.compute-1.amazonaws.com/phpmyadmin/sql.php?db=assignment2&table=photos&pos=0

Server: database-1.c9vyyzajhwjk.us-east-1.rds.amazonaws.com » Database: assignment2 » Table: photos

Browser Structure SQL Search Insert Export Import Privileges Operations Triggers

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 1 (2 total, Query took 0.0012 seconds.)

```
SELECT * FROM `photos`
```

☐ Profiling [Edit inline] [Edit] [Explai

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

PhotoTitle	Description	CreationDate	Keywords	PhotoRef
avatar	My avatar	2022-09-17	avatar, face	https://h7301bucket.s3.amazonaws.com/Screen+Shot+2...
Bear	This is a bear	2022-09-17	bear animal	https://h7301bucket.s3.amazonaws.com/IMG_7024.PNG

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Add the photo link of S3 bucket to meta data

## PHOTO ALBUM WEBSITE WORKS SUCCESSFULLY:


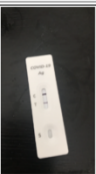
← → ↻ ⚠ Not Secure | ec2-18-235-17-10.compute-1.amazonaws.com/cos80001/photoalbum/album.php

**Student name: Pham Huu Hung**

**Student ID: 102643407**

**tutorial session: Thursday 16:30 PM**

**Uploaded photos:**

Photo	Name	Description	Creation date	Keywords
	avatar	My avatar	2022-09-17	avatar, face
	Bear	This is a bear	2022-09-17	bear animal

The website works well