#### Swinburne University of Technology

#### COS20019 Cloud Computing Architecture

### Assignment 1b

Saturday 14th October, 2023

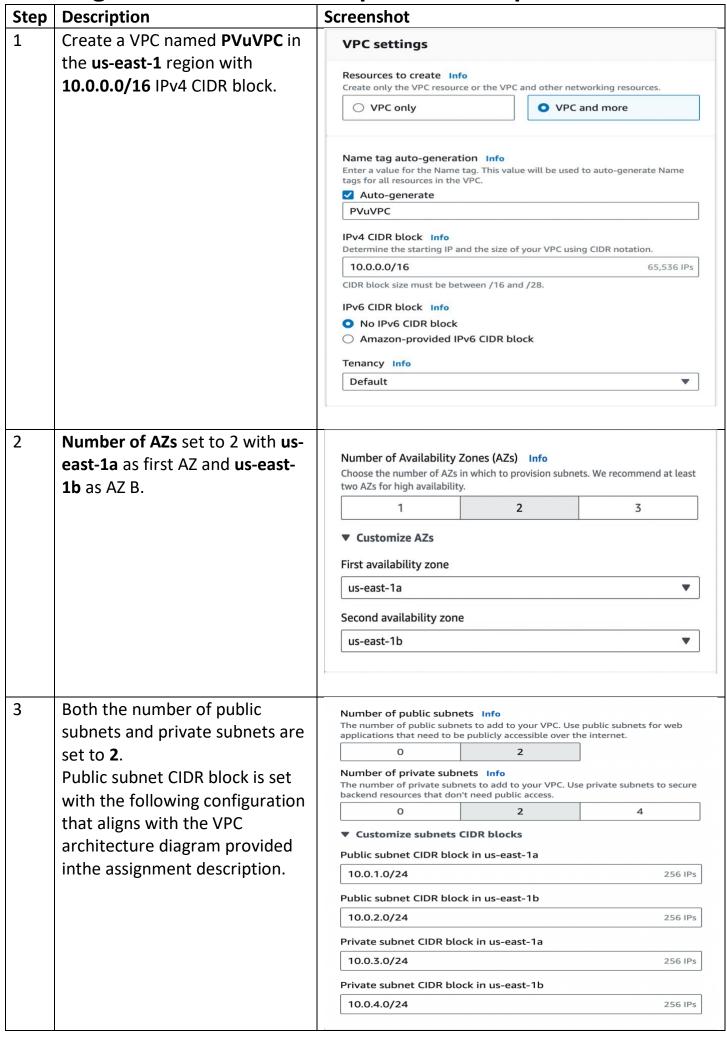
Phan Vu Student ID: 104222099



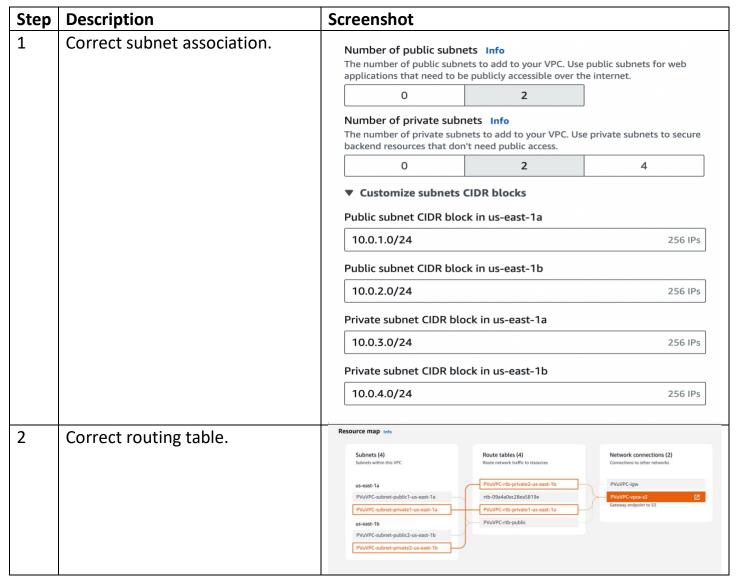
#### **Infrastructure Requirements**

**URL:** <a href="http://ec2-52-4-156-92.compute-1.amazonaws.com/COS20019/photoalbum/album.php">http://ec2-52-4-156-92.compute-1.amazonaws.com/COS20019/photoalbum/album.php</a>

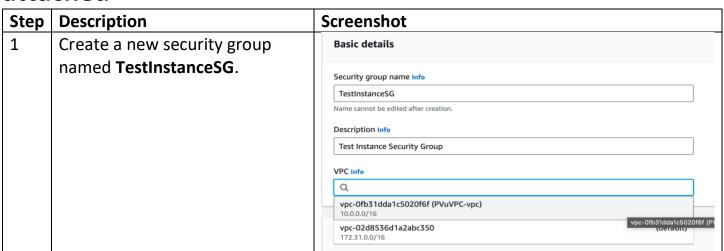
### Marking scheme: VPC with 2 public and 2 private subnets

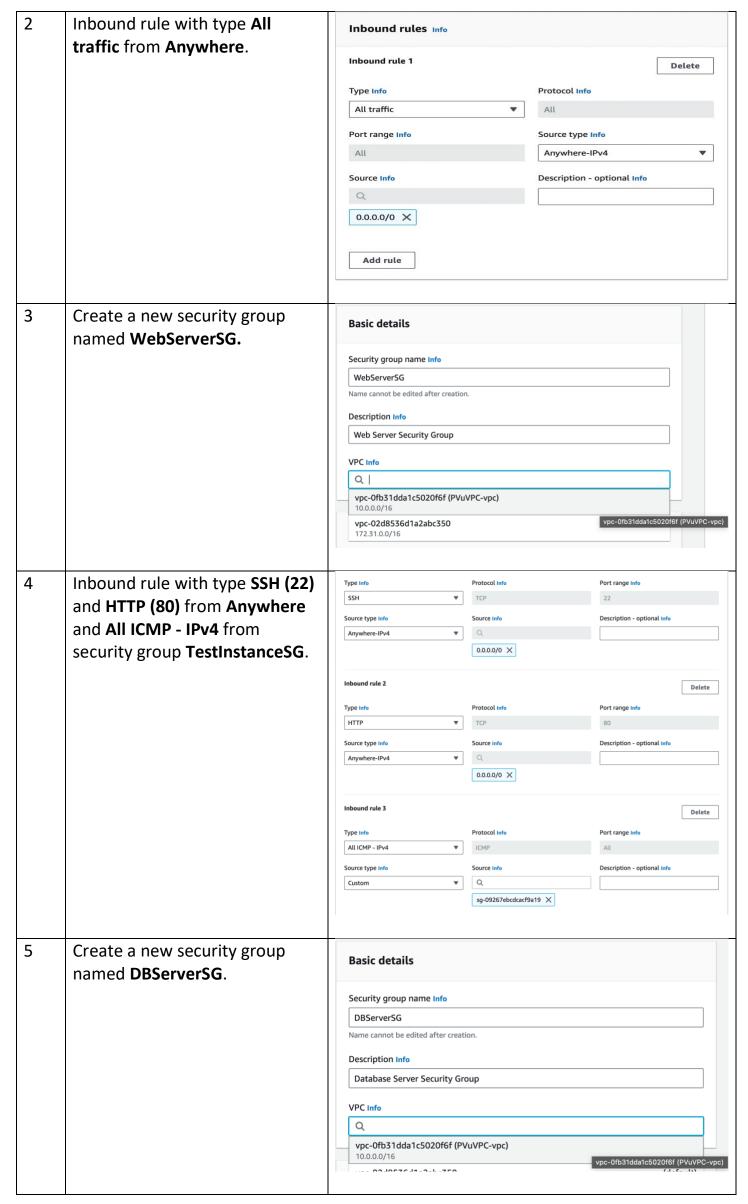


## Marking scheme: Correct Public and Private Routing tables with correct subnet associations



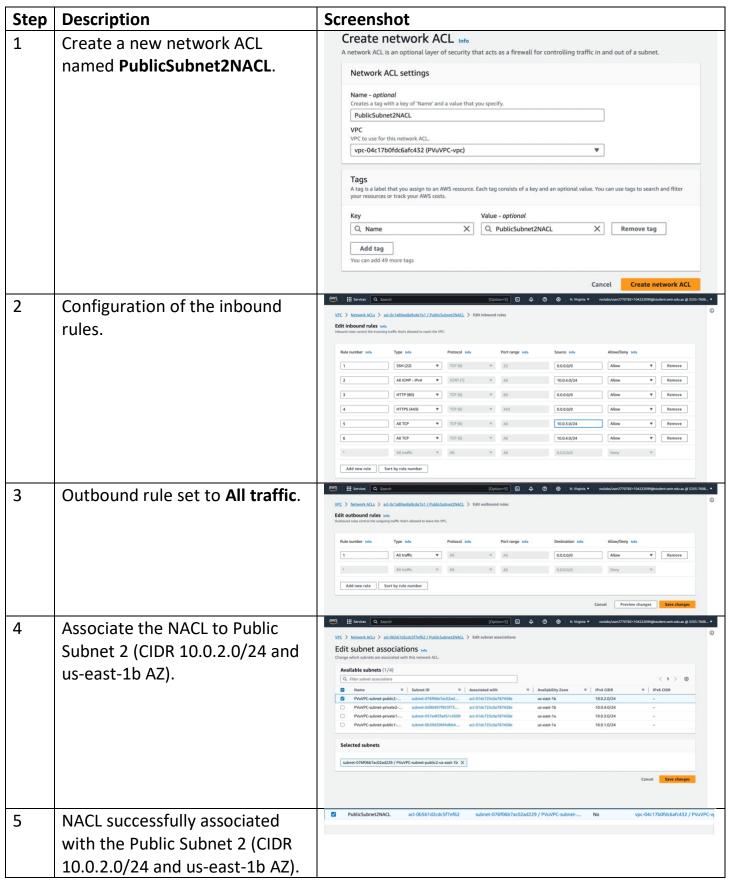
## Marking scheme: Security groups properly configured and attached



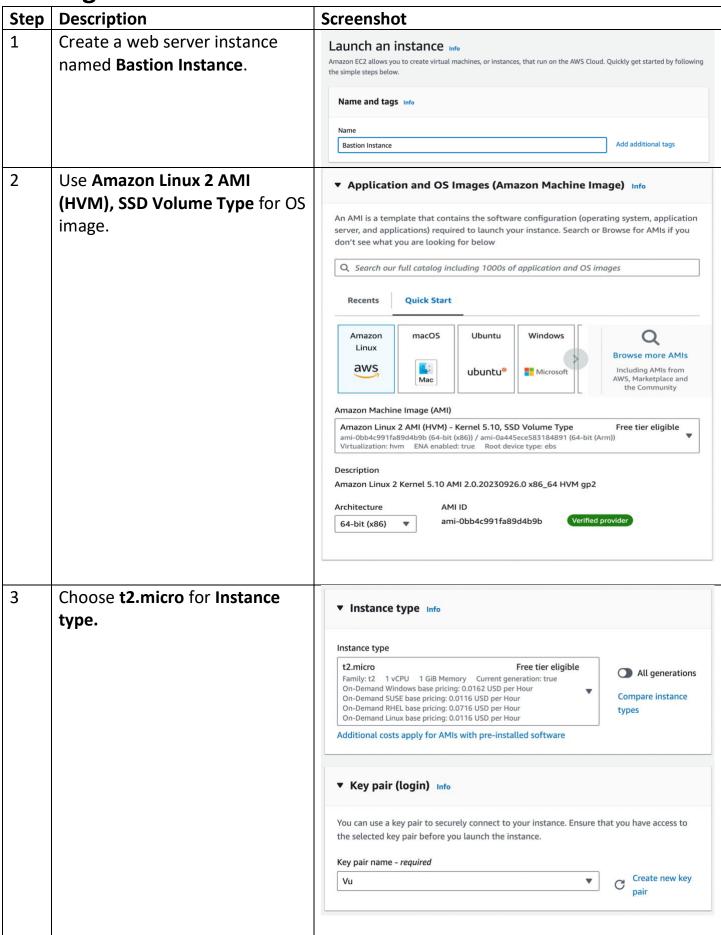


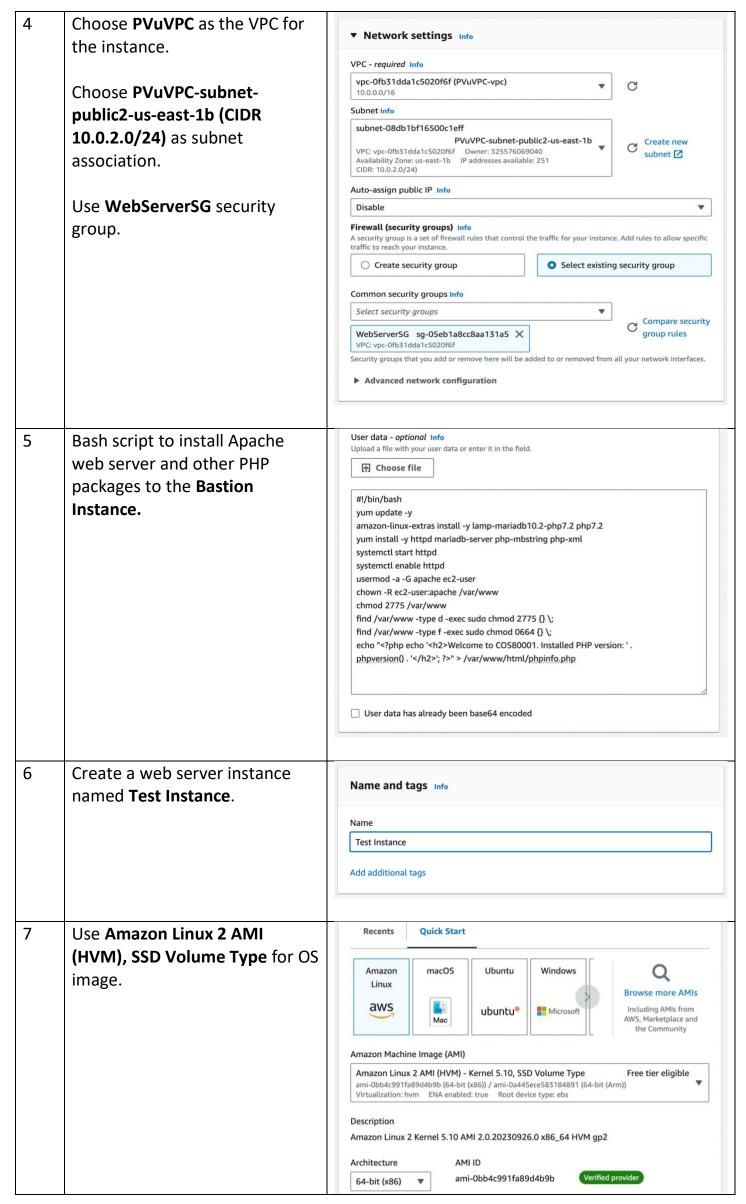


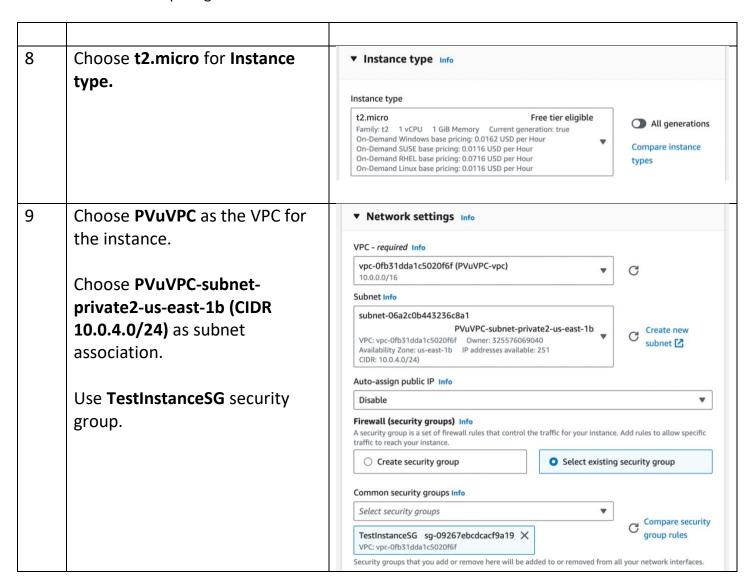
## Marking scheme: Network ACL properly configured and attached



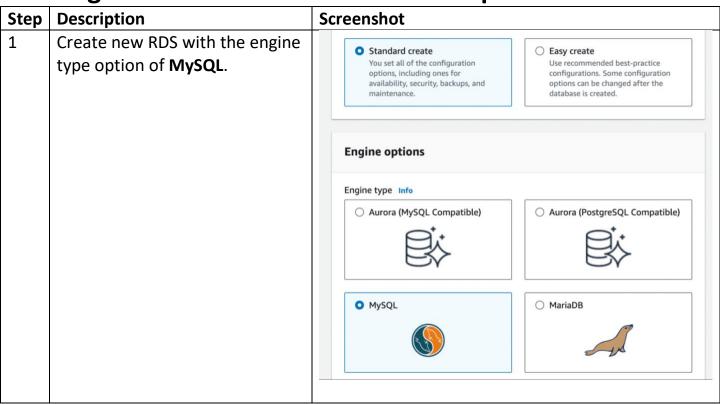
# Marking scheme: Correct Web server and Test instances running in correct subnets

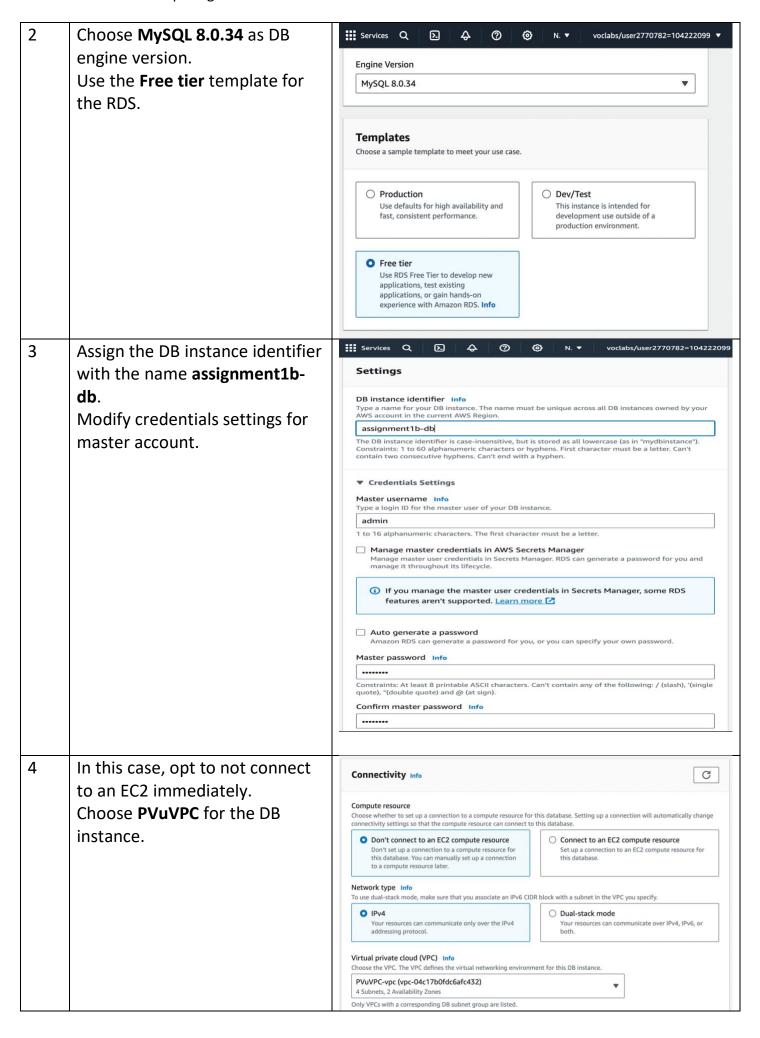


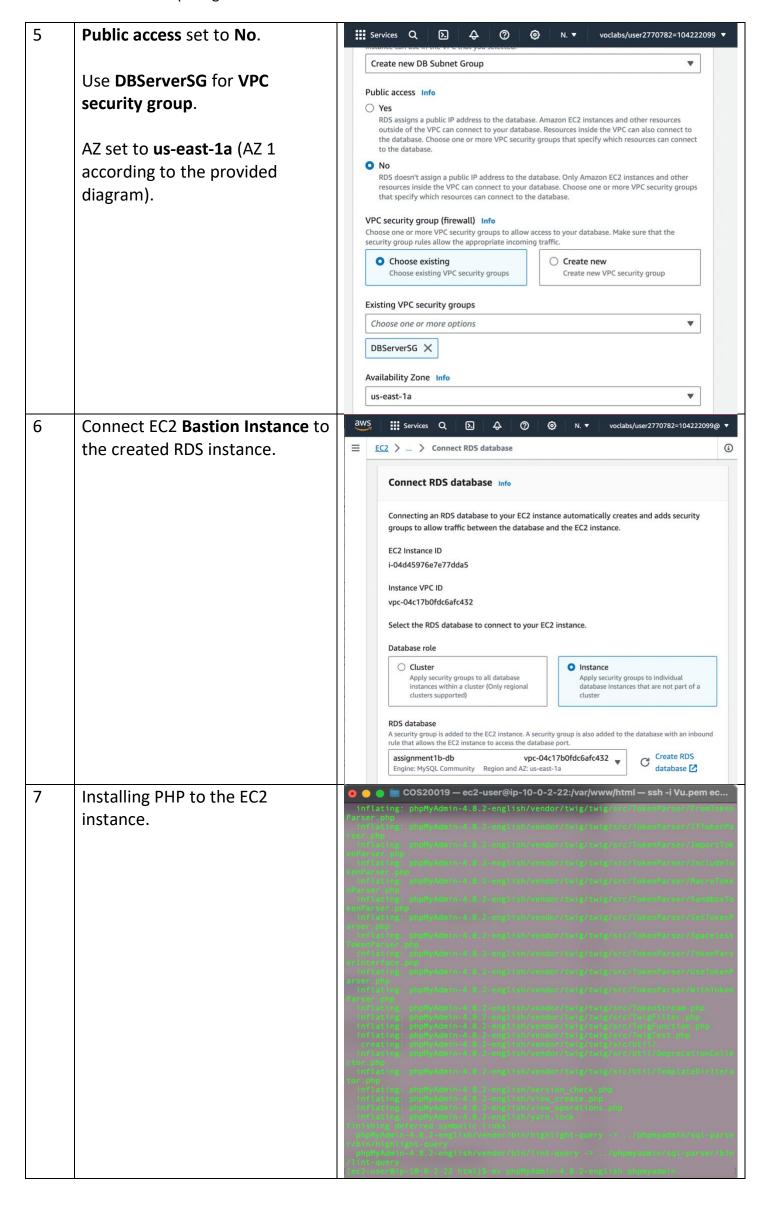


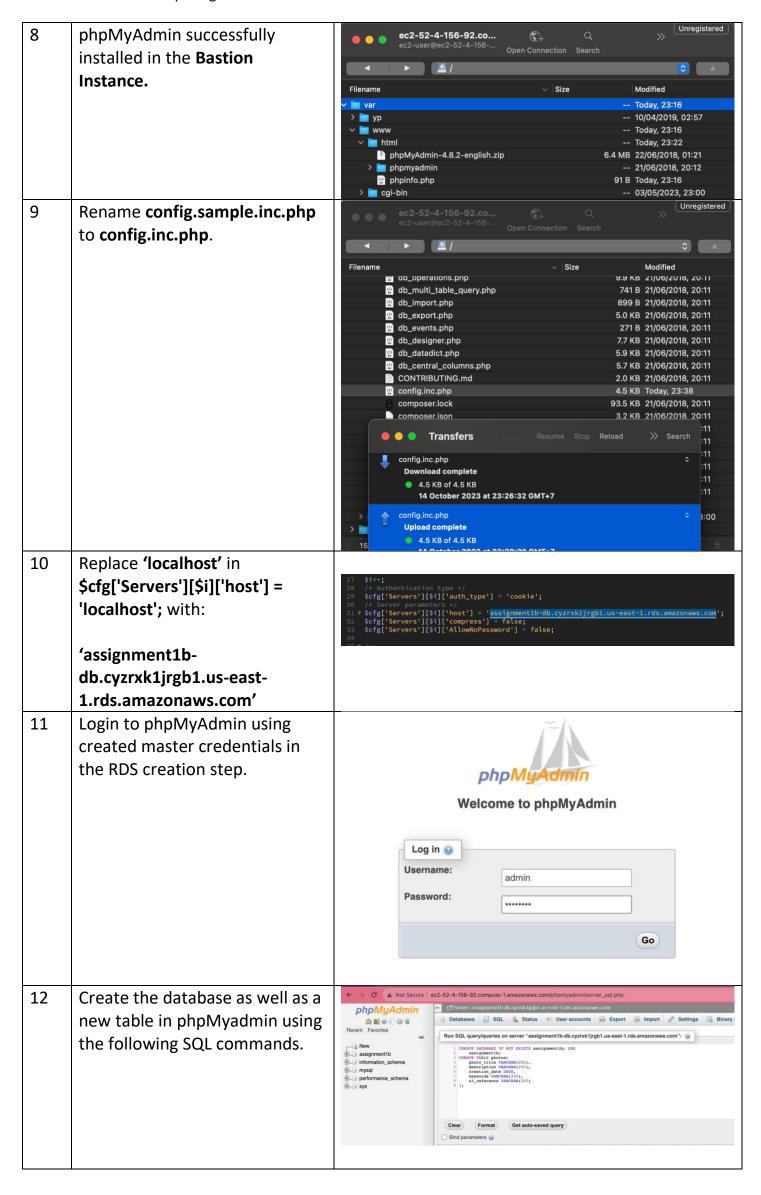


### Marking scheme: Database schema as specified



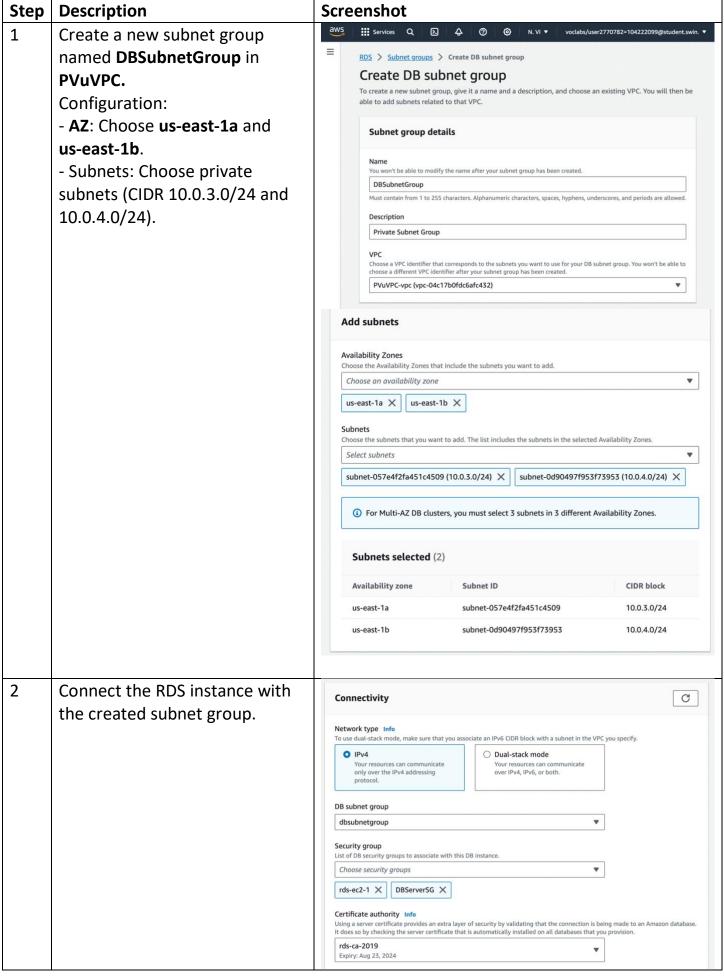




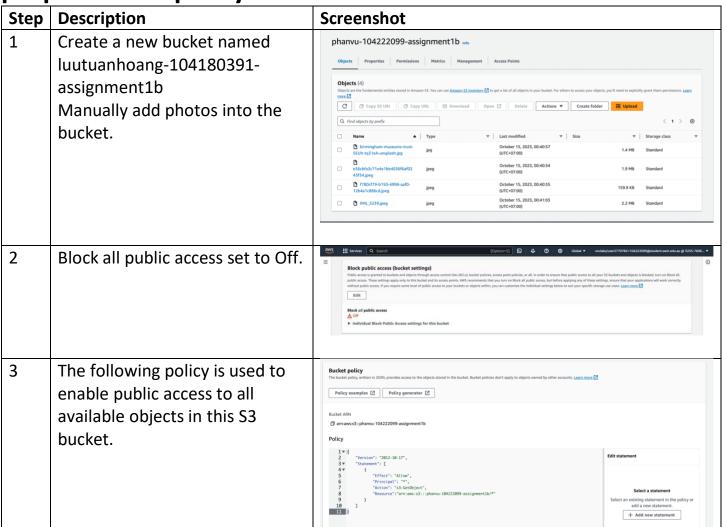




### Marking scheme: Database running in correct subnets



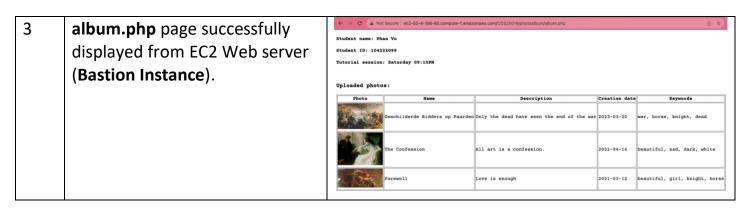
Marking scheme: S3 objects publicly accessible, using proper access policy



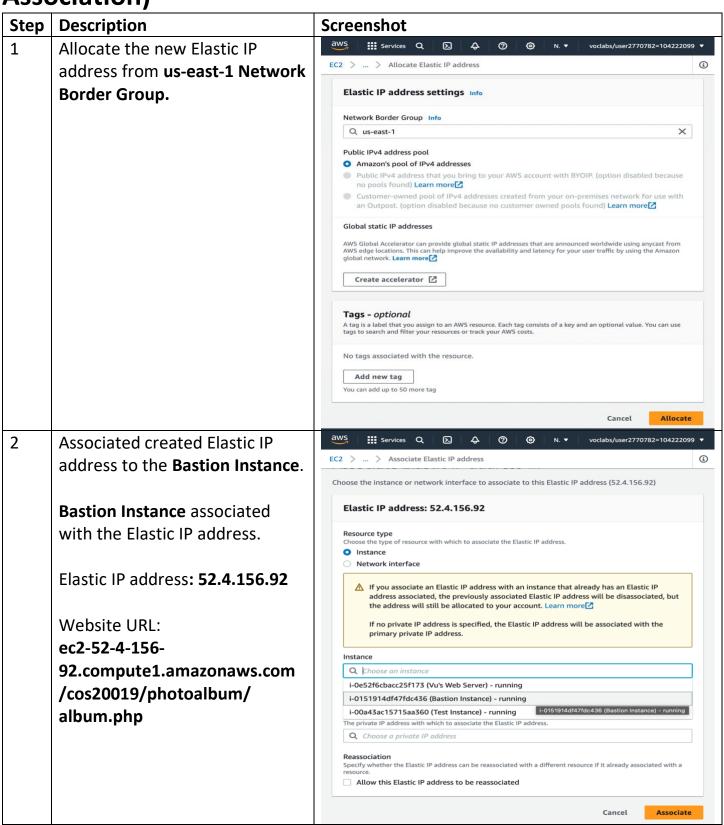
#### **Functional Requirements**

## Marking scheme: album.php page displayed from EC2 Web server

Step	Description	Screenshot		
1	Modify constants in constants.php.	35 // [ACTION REQUIRED] your full name 36 define('STUDENT_MAME', 'Phan Vu'); 37 // [ACTION REQUIRED] your Student 1D 38 define('STUDENT_ID', '194222699'); 39 // [ACTION REQUIRED] your Untorial session 40 define('TUTORIAL_SESSION', 'Saturday 09:15PM'); 41		
		42 //(ACTION REQUIRED) name of the S3 bucket that stores 43 define("BUCKET NAME", "phanav-plaz2089"-assignmentlb"); 44 //(ACTION REQUIRED) region of the above bucket 45 define("REGION", "us-asst-"); 46 // no need to update this const 47 define("S3_ONS_CHU," https://bUCKET_NAME.".s3.amazor		
		49 // (ACTION REQUIRED) name of the database that stores p 50 define 100 MANE* "assignmenthe": 51 // (ACTION REQUIRED) empoint of RDS instance 52 define(100 EUDOCONTH, "assignmenthe-da.cyzraklyrghl.us- 53 // (ACTION REQUIRED) username of your RDS instance 54 define(100 EUSOCONTHE," admin): 55 // (ACTION REQUIRED) password of your RDS instance 56 define(100 EUSOCONTHE) assword of your RDS instance 56 define(100 EUSOCONTHE)		
		// /// // // // // // // // // // // //	able that stores phote's titles able that stores phote's descriptions able that stores phote's creation dates at that stores phote's keywords able that stores phote's Links in S3	
2	Transfer website source code to	ec2-52-4-156-92.co	<b>©</b> + Q	Unregistered >>>
	Bastion Instance.		cos Connection Search	
		Filename	∨ Size	Modified
	Directory: var/www/html/	photo.php	1.2 k	(B Today, 01:08
		mydb.php	1.2 K	(B Today, 01:08
	I Var/w/w//ntml/			
	COS20019/photoalbum/	defaultstyle.css		B Today, 01:08 (B Today, 01:08



# Marking scheme: Provided URL is persistent (Elastic IP Association)

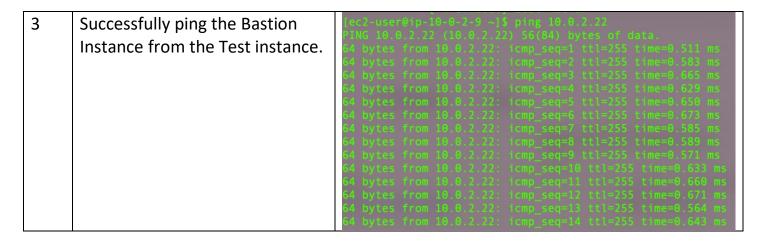


# Marking scheme: Photos loaded from S3 with matching metadata from RDS

Step	Description	Screenshot		
1	Insert metadata into the database using SQL commands.	A hot Secure ect-52-4-156-92 compute-1 amazonaes complymyndminherwr_sol php  Php MyAdmin  A III   III		
2	Data records in the database.	Options     pleto. Site     Geschilderide Ridders op Paarden. Only the dead have seen the end of the war 2023-03-00     The Confession     All art is a confession.  Farewell     Love is enough     Confession     Confession     All art is a confession.  All art is a confession.  2021-03-12     beautiful, girl, knight, horse https://phannu-104222099-assignment1b.s3.amazonaws  beautiful, girl, knight, horse https://phannu-104222099-assignment1b.s3.amazonaws  confession.  All art is a confession.  2021-03-12     beautiful, girl, knight, horse https://phannu-104222099-assignment1b.s3.amazonaws  confession.  All art is a confession.  2021-03-12     beautiful, girl, knight, horse https://phannu-104222099-assignment1b.s3.amazonaws		
3	The website is able to list all the photos (stored in the S3 bucket) along with their meta-data (stored in the database).	← → C A Not Secure ec2-52-4-156-92.compute-lamazonaws.com/COS20019/photoalbum/album.php  Student name: Phan Yu  Student ID: 104322099  Tutorial session: Saturday 09:15FH  Uploaded photos:  Photo Name Description Creation date Keywords		
		Geschilderde Ridders op Paarden Only the dead have seen the end of the war 2023-03-20 war, horse, knight, dead  The Confession All art is a confession. 2022-04-14 beautiful, sad, dark, white  Farewell Love is enough 2021-03-12 beautiful, girl, knight, horse		

### Marking scheme: Web server instance reachable from Test instance via ICMP

Step	Description	Screenshot
1	SSH to Bastion Instance.	Last login: Sat Oct 14 23:16:19 on ttys000 vufanity@Vus-MacBook-Pro ~ % cd CO520019 vufanity@Vus-MacBook-Pro CO520019 % ssh -i "Vu.pem" ec2-user@ec2-52-4-156-92.com pute-1.amazonaws.com Last login: Sat Oct 14 16:17:04 2023 from 113:161.71.133  Amazon tinux 2  Amazon tinux 2023. GA and supported until 2018-03:15. https://ams.amazon.com/linux/amazon-tinux-2022/  13 package(s) headed for security, our of 24 available  Tun "sudo yum update" to apply all updates.  Tushing setiocate: ICC GYME: cannot change locate (U(F-8): No such fite of singlesse)  The package(s) headed for security all updates.
2	SSH from Bastion Instance to Test Instance.	COS20019 — ec2-user@ip-10-0-2-9:~ — ssh -A ec2-user@ec2-52-4-15  ) vufanity@Vus-MacBook-Pro COS20019 % ssh -A ec2-user@ec2-52-4-156-92.compute-1.ar azonaws.com  Last login: Sat Oct 14 19:26:18 2023 from 113.161.71.133



P/s: Sorry for all of the inconveniences that I made. Thank you.

END.