# COS80001 SDCC Assignment 2 Report

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Screenshots showing successful completion of the assignment requirements are attached on the following pages.

### **AWS VPC Subnets**



Figure 1 Subnets page for AMcWhaeVPC

### AWS VPC RouteTable

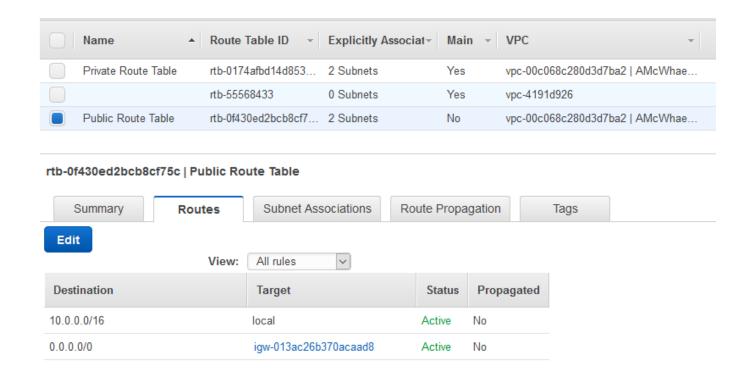


Figure 2 Route Table Page for AMcWhaeVPC

### **Security Groups**

### Web\_tier\_sg

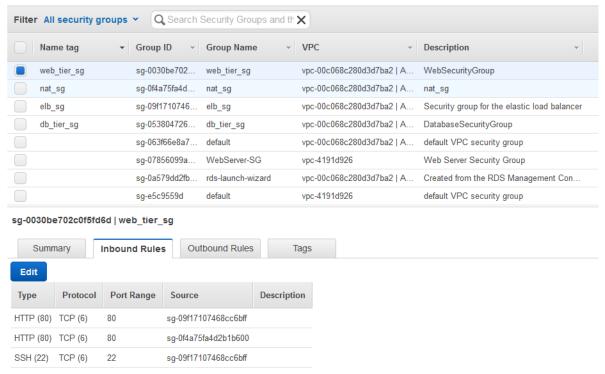


Figure 3 Security groups with Web\_tier\_sg inbound rules

#### Nat sg

### sg-0f4a75fa4d2b1b600 | nat\_sg

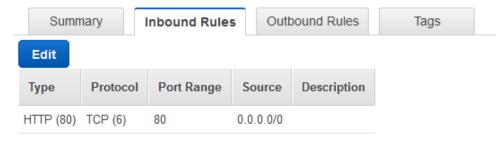


Figure 4 Nat\_sg inbound rules

#### Elb sg

#### sg-09f17107468cc6bff | elb\_sg

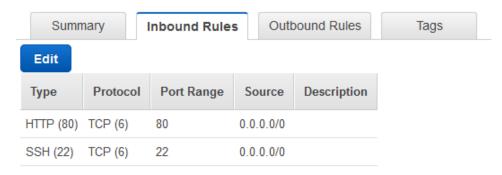


Figure 5 Elb\_sg inbound rules

### Db\_tier\_sg

# sg-053804726776cb479 | db\_tier\_sg

Summary	Inbound R	Out	oound Rules	Tags		
Edit						
Туре	Protocol	Port Range	Source	Description		
SSH (22)	TCP (6)	22	sg-0030be702c0f5fd6d			
MySQL/Aurora (3306)	TCP (6)	3306	sg-0030be702c0f5fd6d			

Figure 6 db\_tier\_sg inbound rules

### EC2 Instances

#### Description

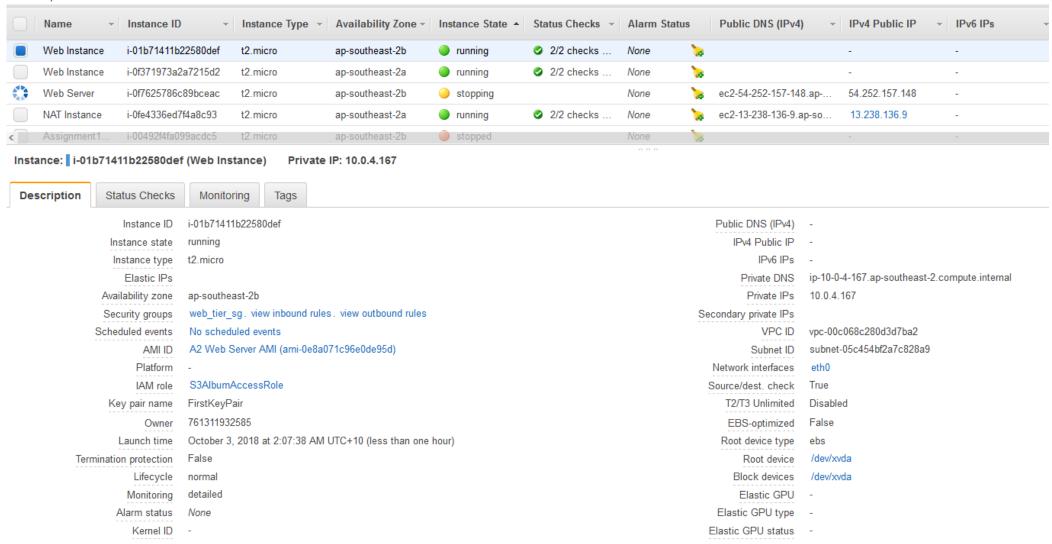


Figure 7 EC2 Instance Page showing description tag for web instance

Tags



Figure 8 Tags tab of Web Instance

# RDS Instance Page



Figure 9 RDS Instance Page

### **ELB Configuration**

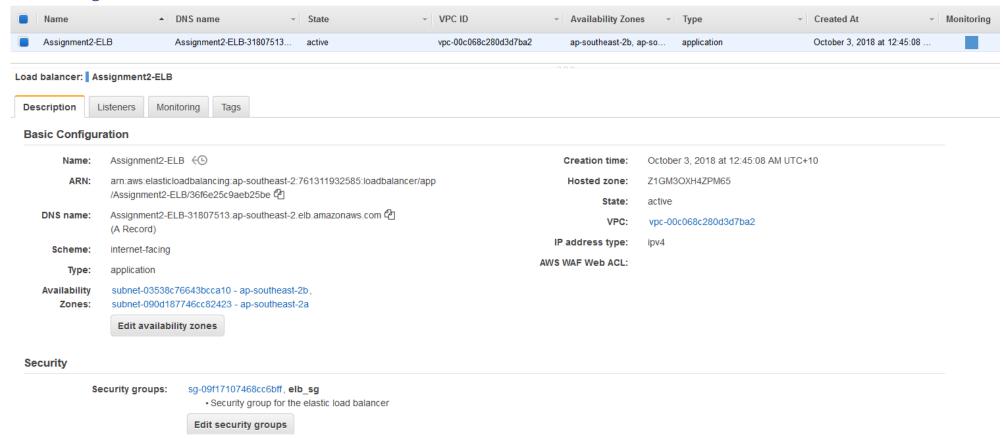


Figure 10 ELB Configuration

# AutoScaling Configuration

Name - Launch Co	onfiguratio	on / Instances	• Desired •	Min 🔻	Max -	Availabili	ity Zones 🔻	Default (	Cooldown -	Health Check Grace
Assignment2 Assignment	t2-Config	2	2	2	6	ap-southe	ast-2b, ap-southea	300		300
uto Scaling Group: Assignment2	2 Scaling	Group					• •	9		
<b>Details</b> Activity History Sc	aling Poli	cies Instances	Monitoring	Notifi	cations	Tags	Scheduled Actions	Lifed	cycle Hooks	
Launch Template	<u>(i)</u>	-				1	Termination Policies	<u>(i)</u>	Default	
Launch Template Version	i	-					Creation Time	i	Wed Oct 03	3 00:53:17 GMT+1000 2018
Launch Configuration	i	Assignment2-Con	fig				Availability Zone(s)	(i)	ap-southea	st-2b, ap-southeast-2a
Service-Linked Role		arn:aws:iam::761311932585:role/aws- service-role/autoscaling.amazonaws.com				Subnet(s)	<b>(i)</b>	subnet-05c4 06a035b2f8	454bf2a7c828a9,subnet- 8df07af9	
Classic Land Polynous		/AWSServiceRole	ForAutoScaling				Default Cooldown	(i)	300	
Classic Load Balancers	(i)						Placement Groups	i		
Target Groups		Assignment2-Gro	nb			Sus	spended Processes	(i)		
Desired Capacity	(i)	2					<b>Enabled Metrics</b>	(i)		ize, GroupDesiredCapacity,
Min	i	2								dbylnstances, vicelnstances, GroupMaxSize,
Max	(i)	6							GroupTermi	inatingInstances,
Health Check Type	(i)	ELB							GroupPend GroupTotall	ingInstances, instances
Health Check Grace Period	(i)	300					Instance Protection	(i)		

Figure 11 Autoscaling Configuration

### IAM

### Policy

Policies > S3AlbumAccessPolicy

### Summary

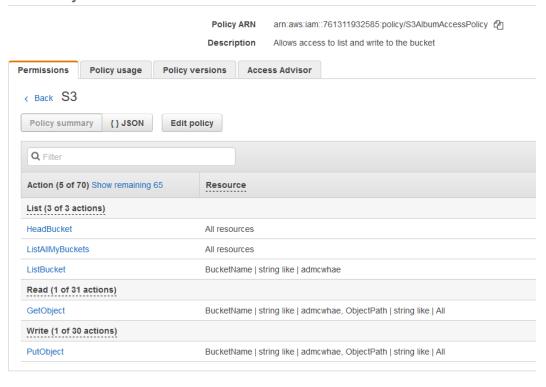


Figure 12 IAM Role for S3AlbumAccessPolicy

#### Roles

S3AlbumAccessRole

Allows EC2 instances to call AWS services on your behalf.

AWS service: ec2

Figure 13 S3AlbumAccessRole

### S3 Bucket Policy

# Bucket policy editor ARN: arn:aws:s3:::admcwhae

Type to add a new policy or edit an existing policy in the text area below.

Figure 14 S3 Bucket Policy for admcwhae

# Upload.php

Form Details

# Photo uploader

Student ID: 101801822 Name: Alex McWhae

Photo title: OscarJacket
Select a photo: Browse IMG_3542.JPG
<b>Description:</b> Oscar wearing his jacket
Date: 06 / 08 / 2018 😵
Keywords (seperated by a semicolon, e.h. keyword1; keyword2; etc.):  oscar; jacket
Upload

Photo Upload Photo Search

Figure 15 Upload form with fields filled in

Form Submission

# Photo uploader

Student ID: 101801822 Name: Alex McWhae

Photo title:					
Select a photo: Browse No file selected.					
Description:					
Date: dd/mm/yyyy					
Keywords (seperated by a semicolon, e.h. keyword1; keyword2; etc.):					
Upload					
File uploaded!					

Photo Upload Photo Search

Figure 16 Result of form submission

# Getphotos.php

Form details

# **Photo Search**

Keyword:	oscar	Title:	Date Range:	01/01/2018	02 / 10 / 2018 🕲	Search
Photo Uplo						

Figure 17 Form details for getphotos.php

### Results

# **Photo Search**

Keyword: Title:	Date Range: dd / mm / yyyy	- dd / mm / yyyy	Search

Searched parameters, date1: 2018-01-01, keyword: oscar, date2: 2018-10-02



Title: DogsBed
Description: Arlo, Oscar, Buckley lying on the bed
Date: 2018-07-14
Keywords: arlo, oscar, buckley, bed



Title: OscarJacket
Description: Oscar wearing his jacket

Date: 2018-08-06 Keywords: oscar, jacket

Photo Upload Photo Search

Figure 18 Results of search