

User Manual

Photoalbum

DEVAESH KAGGDAS

Below are the screenshots depicting the AWS infrastructure setup for the photo album project:-

1. VPC :-

Your VPCs (1/3) Info						
	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	Actions Create VPC
<input type="checkbox"/>	-	vpc-01ac5a77a3dfb55b7	Available	172.31.0.0/16	-	
<input checked="" type="checkbox"/>	KDevaeshVPC	vpc-0a127c0375f0ebaf	Available	10.0.0.0/16	-	
VPC ID vpc-0a127c0375f0ebaf		State Available		DNS hostnames Enabled		DNS resolution Enabled
Tenancy Default		DHCP options set dopt-09d7fe9b9a8c4f6eb		Main route table rtb-07f48b9075614a567 / Private Route Table		Main network ACL acl-04e5b8e54fe12ad5e
Default VPC No		IPv4 CIDR 10.0.0.0/16		IPv6 pool -		IPv6 CIDR (Network border group) -
Route 53 Resolver DNS Firewall rule groups		Owner ID 806833221271				

2. NAT Instance :-

Instances (1/4) Info								
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
<input checked="" type="checkbox"/>	NAT server	i-092aebdfa566bfad5	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	ec2-.
<input type="checkbox"/>	Web servers	i-07508416db5440203	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Dev server	i-09778342cb9855393	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1b	ec2-:
<input type="checkbox"/>	Web servers	i-06970e0f298145a39	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1b	-

Instance: i-092aebdfa566bfad5 (NAT server)

Select an instance above

Details	Security	Networking	Storage	Status checks	Monitoring	Tags									
Instance summary Info <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Instance ID i-092aebdfa566bfad5 (NAT server)</td> <td style="width: 33%;">Public IPv4 address 184.73.97.183 open address</td> <td style="width: 33%;">Private IPv4 addresses 10.0.1.222</td> </tr> <tr> <td>IPv6 address -</td> <td>Instance state Running</td> <td>Public IPv4 DNS ec2-184-73-97-183.compute-1.amazonaws.com open address</td> </tr> <tr> <td>Hostname type</td> <td>Private IP DNS name (IPv4 only)</td> <td>Answer private resource DNS name</td> </tr> </table>							Instance ID i-092aebdfa566bfad5 (NAT server)	Public IPv4 address 184.73.97.183 open address	Private IPv4 addresses 10.0.1.222	IPv6 address -	Instance state Running	Public IPv4 DNS ec2-184-73-97-183.compute-1.amazonaws.com open address	Hostname type	Private IP DNS name (IPv4 only)	Answer private resource DNS name
Instance ID i-092aebdfa566bfad5 (NAT server)	Public IPv4 address 184.73.97.183 open address	Private IPv4 addresses 10.0.1.222													
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-184-73-97-183.compute-1.amazonaws.com open address													
Hostname type	Private IP DNS name (IPv4 only)	Answer private resource DNS name													

Instances (1/4) Info								
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
<input checked="" type="checkbox"/>	NAT server	i-092aebdfa566bfad5	Running  	t2.micro	Initializing  	No alarms 	us-east-1a	ec2-1
<input type="checkbox"/>	Web servers	i-07508416db5440203	Running  	t2.micro	2/2 checks passed  	No alarms 	us-east-1a	-
<input type="checkbox"/>	Dev server	i-09778342cb9855393	Running  	t2.micro	Initializing  	No alarms 	us-east-1b	ec2-1
<input type="checkbox"/>	Web servers	i-06970e0f298145a39	Running  	t2.micro	2/2 checks passed  	No alarms 	us-east-1b	-

Instance: i-092aebdfa566bfad5 (NAT server)

Instance ID i-092aebdfa566bfad5 (NAT server)	Public IPv4 address 184.73.97.183 open address	Private IPv4 addresses 10.0.1.222
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-184-73-97-183.compute-1.amazonaws.com open address
Hostname type IP name: ip-10-0-1-222.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-1-222.ec2.internal	Answer private resource DNS name IPv4 (A)
Instance type t2.micro	Elastic IP addresses -	Auto-assigned IP address 184.73.97.183 [Public IP]

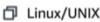
Instances (1/4) Info								
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
<input checked="" type="checkbox"/>	NAT server	i-092aebdfa566bfad5	Running  	t2.micro	Initializing  	No alarms 	us-east-1a	ec2-1
<input type="checkbox"/>	Web servers	i-07508416db5440203	Running  	t2.micro	2/2 checks passed  	No alarms 	us-east-1a	-
<input type="checkbox"/>	Dev server	i-09778342cb9855393	Running  	t2.micro	Initializing  	No alarms 	us-east-1b	ec2-1
<input type="checkbox"/>	Web servers	i-06970e0f298145a39	Running  	t2.micro	2/2 checks passed  	No alarms 	us-east-1b	-

Instance: i-092aebdfa566bfad5 (NAT server)

VPC ID vpc-0a127c0375f0ebaf (KDevaeshVPC)	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	IAM Role -
Subnet ID subnet-09b7cc00ada9faa5d (Public subnet 1)	Auto Scaling Group name -	
Instance details Info		
Platform Amazon Linux (inferred)	AMI ID ami-00a36856283d67c39	Monitoring disabled
Platform details	AMI name	Termination protection

Instances (1/4) Info								
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
<input checked="" type="checkbox"/>	NAT server	i-092aebdfa566bfad5	Running  	t2.micro	Initializing 	No alarms 	us-east-1a	ec2-*
<input type="checkbox"/>	Web servers	i-07508416db5440203	Running  	t2.micro	2/2 checks passed 	No alarms 	us-east-1a	-
<input type="checkbox"/>	Dev server	i-09778342cb9855393	Running  	t2.micro	Initializing 	No alarms 	us-east-1b	ec2-*
<input type="checkbox"/>	Web servers	i-06970e0f298145a39	Running  	t2.micro	2/2 checks passed 	No alarms 	us-east-1b	-

Instance: i-092aebdfa566bfad5 (NAT server)

 Linux/UNIX	 amzn-ami-vpc-nat-2018.03.0.20210721.0-x86_64-ebs	Disabled
Launch time	AMI location	Instance auto-recovery
 Sun Apr 17 2022 17:07:05 GMT+0530 (India Standard Time) (1 minute)	 amazon/amzn-ami-vpc-nat-2018.03.0.20210721.0-x86_64-ebs	Default
Lifecycle normal	Stop-hibernate behavior disabled	AMI Launch index 0
Key pair name	State transition reason -	Credit specification standard
 DevAssignment2		

Instances (1/4) Info								
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
<input checked="" type="checkbox"/>	NAT server	i-092aebdfa566bfad5	Running  	t2.micro	Initializing 	No alarms 	us-east-1a	ec2-*
<input type="checkbox"/>	Web servers	i-07508416db5440203	Running  	t2.micro	2/2 checks passed 	No alarms 	us-east-1a	-
<input type="checkbox"/>	Dev server	i-09778342cb9855393	Running  	t2.micro	Initializing 	No alarms 	us-east-1b	ec2-*
<input type="checkbox"/>	Web servers	i-06970e0f298145a39	Running  	t2.micro	2/2 checks passed 	No alarms 	us-east-1b	-

Instance: i-092aebdfa566bfad5 (NAT server)

 Reservation	 Partition number	Number of vCPUs
 r-02c44999e0c0c44e4	-	1
 Capacity reservation Info		
Capacity Reservation ID	Capacity Reservation setting	
-	open	
 Accelerators Info		
Elastic Graphics ID	Elastic inference accelerator ID	
-	-	

3. Route Tables :-

- Private Route tables

Route tables (1/4) [Info](#)

[Actions](#) [Create route table](#)

Filter route tables

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input checked="" type="checkbox"/> Private Route Table	rtb-07f48b9075614a567	2 subnets	-	Yes	vpc-0a127c0375f0ebafdf KDevaeshVPC
	rtb-00dc27f0500694146	-	-	No	vpc-01ac5a77a3dfb55b7

[Run Reachability Analyzer](#)

Details

Route table ID rtb-07f48b9075614a567	Main <input checked="" type="checkbox"/> Yes	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-0a127c0375f0ebafdf KDevaeshVPC	Owner ID 806833221271		

Route tables (1/4) [Info](#)

[Actions](#) [Create route table](#)

Filter route tables

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input checked="" type="checkbox"/> Private Route Table	rtb-07f48b9075614a567	2 subnets	-	Yes	vpc-0a127c0375f0ebafdf KDevaeshVPC
	rtb-00dc27f0500694146	-	-	No	vpc-01ac5a77a3dfb55b7

[Edit routes](#)

Routes (2)

[Filter routes](#)

[Both](#)

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	eni-08055796324ec8b22	Active	No

Route tables (1/4) Info

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
Private Route Table	rtb-07f48b9075614a567	2 subnets	-	Yes	vpc-0a127c0375f0ebafdf KDe
	rtb-00dc27f0599694146	-	-	No	vpc-01ac5a77a3dfb55b7

rtb-07f48b9075614a567 / Private Route Table

Details | Routes | **Subnet associations** | Edge associations | Route propagation | Tags

Explicit subnet associations (2)

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-04f14737fcf2037ac / Private subnet 1	10.0.3.0/24	-
subnet-0c17087180c6bdcdc / Private subnet 2	10.0.4.0/24	-

- Public Route tables :-

Route tables (1/4) Info

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
Private Route Table	rtb-07f48b9075614a567	2 subnets	-	Yes	vpc-0a127c0375f0ebafdf KDe
-	rtb-00dc27f0599694146	-	-	Yes	vpc-01ac5a77a3dfb55b7
Public Route Table	rtb-0c130fc88a09b7250	2 subnets	-	No	vpc-0a127c0375f0ebafdf KDe

(i) You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Details

Route table ID <input type="checkbox"/> rtb-0c130fc88a09b7250	Main <input type="checkbox"/> No	Explicit subnet associations 2 subnets	Edge associations -
VPC vpc-0a127c0375f0ebafdf KDevaeshVPC	Owner ID <input type="checkbox"/> 806833221271		

Route tables (1/4) [Info](#)

	Private Route Table	rtb-07f48b9075614a567	2 subnets	-	Yes	vpc-0a127c0375f0ebaf KDe
<input type="checkbox"/>	-	rtb-00dc27f0599694146	-	-	Yes	vpc-01ac5a7a3dfb55b7
<input checked="" type="checkbox"/>	Public Route Table	rtb-0c130fc88a09b7250	2 subnets	-	No	vpc-0a127c0375f0ebaf KDe

rtb-0c130fc88a09b7250 / Public Route Table

Details **Routes** Subnet associations Edge associations Route propagation Tags

Routes (2)

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	igw-03a8c8a6c92aca371	Active	No

Route tables (1/4) [Info](#)

	rtb-00dc27f0599694146	-	-	Yes	vpc-01ac5a77a3dfb55b7	
<input checked="" type="checkbox"/>	Public Route Table	rtb-0c130fc88a09b7250	2 subnets	-	No	vpc-0a127c0375f0ebaf KDe
<input type="checkbox"/>	-	rtb-06f99affecff6cef9	-	-	Yes	vpc-0bdd8af130946bbaf

rtb-0c130fc88a09b7250 / Public Route Table

Details **Routes** **Subnet associations** Edge associations Route propagation Tags

Explicit subnet associations (2)

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-09b7cc00ada9faa5d / Public subnet 1	10.0.1.0/24	-
subnet-0e8de87cd1f33cb9c / Public subnet 2	10.0.2.0/24	-

4. S3 Bucket Configuration : -

Amazon S3 > Buckets > dev-2assignment-bucket

dev-2assignment-bucket [Info](#)

Objects | **Properties** | Permissions | Metrics | Management | Access Points

Bucket overview

AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN) arn:aws:s3:::dev-2assignment-bucket	Creation date April 17, 2022, 02:57:27 (UTC+05:30)
---	---	---

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

[Edit](#)

Bucket Versioning
Disabled
Multi-factor authentication (MFA) delete

dev-2assignment-bucket [Info](#)

Objects | Properties | **Permissions** | Metrics | Management | Access Points

Permissions overview

Access
[Bucket and objects not public](#)

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
 On
► [Individual Block Public Access settings for this bucket](#)

5. Load Balancer :-

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
DevELB	DevELB-1398204334.us-eas...	Active	vpc-0a127c0375f0ebaf	us-east-1a, us-east-1b	application

Load balancer: DevELB

Description Listeners Monitoring Integrated services Tags

Basic Configuration

Name	DevELB
ARN	arn:aws:elasticloadbalancing:us-east-1:806833221271:loadbalancer/app/DevELB/33ac59e565023b48
DNS name	DevELB-1398204334.us-east-1.elb.amazonaws.com (A Record)
State	Active
Type	application
Scheme	internet-facing
IP address type	ipv4

Edit IP address type

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

Name	DNS name	State	VPC ID	Availability Zones	Type
DevELB	DevELB-1398204334.us-eas...	Active	vpc-0a127c0375f0ebaf	us-east-1a, us-east-1b	application

VPC vpc-0a127c0375f0ebaf

Availability Zones subnet-09b7cc00ada9faa5d - us-east-1a
IPv4 address: Assigned by AWS

subnet-0e8de87cd1f33cb9c - us-east-1b
IPv4 address: Assigned by AWS

Edit subnets

Hosted zone Z35SXDOTRQ7X7K

Creation time April 16, 2022 at 6:34:39 PM UTC+5:30

Security

Security groups sg-0a8c95c3b4bebc3da, ELBSG
• Security group for the load balancer

Edit security groups

[Create Load Balancer](#) [Actions ▾](#)

[Filter by tags and attributes or search by keyword](#)

Name	DNS name	State	VPC ID	Availability Zones	Type
DevELB	DevELB-1398204334.us-eas...	Active	vpc-0a127c0375f0ebaf	us-east-1a, us-east-1b	application

Attributes

Deletion protection	Disabled
Idle timeout	60 seconds
HTTP/2	Enabled
Desync mitigation mode	Defensive
Drop invalid header fields	Disabled
Access logs	Disabled
WAF fail open	Disabled
TLS version and cipher headers	Disabled
Client port preservation	Disabled

[Edit attributes](#)

6. Launch Configuration :-

[←](#) [→](#) [C](#) [us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchConfigurations:launchConfigurationName=](#)

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[EC2](#) > [Launch configurations](#)

Launch configurations (1/1) [Info](#) [Actions](#) [Copy to launch template](#) [Create launch configuration](#)

Name	AMI ID	Instance type	Spot price	Creation time
DevServerConfig	ami-07102a7992...	t2.micro	-	Sun Apr 17 2022 04:44:22 GM...

Launch configuration: DevServerConfig

Details

AMI ID ami-07102a79921923252	Instance type t2.micro	IAM instance profile arn:aws:iam::806833221271:instance-profile/EMR_EC2_DefaultRole
Kernel ID -	Key name DevAssignment2	Monitoring true
EBS optimized false	Security groups sg-0ea9703a1aa5e1165	Spot price -

Launch configurations (1/1) Info						
		Actions ▾		Copy to launch template ▾		Create launch configuration
<input type="text"/> Search launch configurations ◀ 1 ▶ ⚙						
<input checked="" type="checkbox"/>	Name	AMI ID	Instance type	Spot price	Creation time	⋮
<input checked="" type="checkbox"/>	DevServerConfig	ami-07102a7992...	t2.micro	-	Sun Apr 17 2022 04:44:22 GM...	  
EBS optimized false						
Create time		Security groups		Spot price		⋮
Sun Apr 17 2022 04:44:22 GMT+0530 (India Standard Time)		sg-0ea9703a1aa5e1163 [x]		-		⋮
Metadata accessible		RAM disk ID		IP address type		⋮
-		-		Default		⋮
User data		Token hop limit		Metadata version		⋮
-		-		-		⋮

Launch configurations (1/1) Info						
		Actions ▾		Copy to launch template ▾		Create launch configuration
<input type="text"/> Search launch configurations ◀ 1 ▶ ⚙						
<input checked="" type="checkbox"/>	Name	AMI ID	Instance type	Spot price	Creation time	⋮
<input checked="" type="checkbox"/>	DevServerConfig	ami-07102a7992...	t2.micro	-	Sun Apr 17 2022 04:44:22 GM...	  
Storage (volumes)						
<input type="text"/> Search block devices ◀ 1 ▶ ⚙						
Block device	Size (GiB)	Type	IOPS	Throughput	Delete on termination	Encrypted
/dev/xvda	8	gp2	-	-	true	false

7. Auto Scaling Group :-

us-east-1.console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/details/Dev%2520Auto%2520Scaling%2520Group?view=details

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EC2 Auto Scaling groups Dev Auto Scaling Group

Details Activity Automatic scaling Instance management Monitoring Instance refresh

Group details

Desired capacity	Auto Scaling group name
2	Dev Auto Scaling Group
Minimum capacity	Date created
2	Sun Apr 17 2022 04:47:52 GMT+0530 (India Standard Time)
Maximum capacity	Amazon Resource Name (ARN)
3	arn:aws:autoscaling:us-east-1:806833221271:autoScalingGroup:9967e194-6be0-4b2d-99ab-8be264368b94:autoScalingGroupName/Dev Auto Scaling Group

Launch configuration

Launch configuration	AMI ID	Security groups
DevServerConfig	ami-07102a79921923252	sg-0ea9703a1aa5e1163
Instance type	Key pair name	Create time
t2.micro	DevAssignment2	Sun Apr 17 2022 04:44:22 GMT+0530 (India Standard Time)
Storage (volumes)	View details in the launch configuration console	
/dev/xvda		

us-east-1.console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/details/Dev%2520Auto%2520Scaling%2520Group?view=details

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EC2 Auto Scaling groups Dev Auto Scaling Group

Launch configuration

Launch configuration	AMI ID	Security groups
DevServerConfig	ami-07102a79921923252	sg-0ea9703a1aa5e1163
Instance type	Key pair name	Create time
t2.micro	DevAssignment2	Sun Apr 17 2022 04:44:22 GMT+0530 (India Standard Time)
Storage (volumes)	View details in the launch configuration console	
/dev/xvda		

Network

Availability Zones	Subnet ID
us-east-1a, us-east-1b	subnet-04f14737fcf2057ac, subnet-0c17087180c6bdcdc

Load balancing

us-east-1.console.aws.amazon.com/ec2autoscaling/home?region=us-east-1#/details/Dev%2520Auto%2520Scaling%2520Group?view=details

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Load balancing

Load balancer target groups Classic Load Balancers DevGroup Edit

Health checks

Health check type EC2 Health check grace period 300 Edit

Advanced configurations

Instance scale-in protection Not protected from scale in Termination policies Default Maximum instance lifetime -

Placement group - Suspended processes Default cooldown 300

Service-linked role arn:aws:iam::806833221271:role/aws-service-role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling

EC2 300

EC2 Advanced configurations

Instance scale-in protection Not protected from scale in Termination policies Default Maximum instance lifetime -

Placement group - Suspended processes Default cooldown 300

Service-linked role arn:aws:iam::806833221271:role/aws-service-role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling

Tags (1)

Key Value Tag new instances

Name Web servers Yes

8. Dev server ec2 instance :-

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#instances:

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Instances (1/9) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
NAT server	i-092aebedfa566bfad5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-!
Web servers	i-0b750a32d22abca3b	Terminated	t2.micro	-	No alarms	us-east-1a	-
Web servers	i-0612f5ee56d7f3d29	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-
Web servers	i-0e04cb2c5cec47a18	Terminated	t2.micro	-	No alarms	us-east-1a	-
Web servers	i-009abd2259c0216a7	Terminated	t2.micro	-	No alarms	us-east-1a	-
Dev server	i-09778342cb9855393	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-!

Instance: i-09778342cb9855393 (Dev server)

Instance summary Info

Instance ID i-09778342cb9855393 (Dev server)	Public IPv4 address 44.202.224.235 open address	Private IPv4 addresses 10.0.2.58
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-44-202-224-235.compute-1.amazonaws.com open address
Hostname type IP name: ip-10-0-2-58.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-2-58.ec2.internal	Answer private resource DNS name IPv4 (A)

Dev server i-09778342cb9855393 Running t2.micro 2/2 checks passed No alarms + us-east-1b ec2-!

Instance: i-09778342cb9855393 (Dev server)

Hostname type IP name: ip-10-0-2-58.ec2.internal	Running	ec2-44-202-224-235.compute-1.amazonaws.com open address
Instance type t2.micro	Private IP DNS name (IPv4 only) ip-10-0-2-58.ec2.internal	Answer private resource DNS name IPv4 (A)
VPC ID	Elastic IP addresses -	Auto-assigned IP address 44.202.224.235 [Public IP]
	AWS Compute Optimizer finding	IAM Role

Dev server i-09778342cb9855393 Running t2.micro 2/2 checks passed No alarms + us-east-1b ec2-!

Instance: i-09778342cb9855393 (Dev server)

VPC ID vpc-0a127c0375f0ebaf (KDevaeshVPC)	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	IAM Role EMR_EC2_DefaultRole
Subnet ID subnet-0e8de87cd1f33cb9c (Public subnet 2)	Auto Scaling Group name -	
Instance details Info		
Platform Amazon Linux (Inferred)	AMI ID ami-0c02fb55956c7d316	Monitoring disabled

Amazon Linux (Inferred)	ami-0c02fb55956c7d316	disabled
Platform details	AMI name	Termination protection
Linux/UNIX	amzn2-ami-kernel-5.10-hvm-2.0.20220316.0-x86_64-gp2	Disabled
Launch time	AMI location	Instance auto-recovery
Sun Apr 17 2022 05:03:28 GMT+0530 (India Standard Time) (20 minutes)	amazon/amzn2-ami-kernel-5.10-hvm-2.0.20220316.0-x86_64-gp2	Default
Lifecycle	Stop-hibernate behavior	AMI Launch index
normal	disabled	0

Key pair name	State transition reason	Credit specification
DevAssignment2	-	standard
Kernel ID	State transition message	Usage operation
-	-	RunInstances
RAM disk ID	Owner	ClassicLink
-	806833221271	-
Enclaves Support	Boot mode	Allow tags in instance metadata
-	-	Disabled

Reservation	Partition number	Number of vCPUs
r-030db4c3edf856dbc	-	1
▼ Capacity reservation Info		
Capacity Reservation ID	Capacity Reservation setting	
-	open	
▼ Accelerators Info		
Elastic Graphics ID	Elastic inference accelerator ID	
-	-	

9. RDS instance :-

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=devaesh-db;is-cluster=false

1597735884.pdf What is Marketing... Philip Kotler - Fac... Object-Oriented P... Fields - C# Progra... Object-Oriented P... Understanding Pol... RolesAndClasses.... N. Virginia vocabs/user1333545=102014430@student.swin.edu.au @ 8068-3322...

Amazon RDS Services Search for services, features, blogs, docs, and more [Option+S] RDS > Databases > devaesh-db Modify Actions

devaesh-db

Summary

DB identifier devaesh-db	CPU 2.47%	Status Available	Class db.t3.micro
Role Instance	Current activity 0 Connections	Engine MySQL Community	Region & AZ us-east-1b

Connectivity & security Monitoring Logs & events Configuration Maintenance & backups Tags

Connectivity & security

Endpoint & port	Networking	Security
Endpoint devaesh-db.cwykngyau3lv.us-east-1.rds.amazonaws.com	Availability Zone us-east-1b	VPC security groups DBServerSG (sg-09f3de85f7886ef1d)

us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=devaesh-db;is-cluster=false

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Amazon RDS Services Search for services, features, blogs, docs, and more [Option+S] Connectivity & security Monitoring Logs & events Configuration Maintenance & backups Tags

Connectivity & security

Endpoint & port	Networking	Security
Endpoint devaesh-db.cwykngyau3lv.us-east-1.rds.amazonaws.com	Availability Zone us-east-1b	VPC security groups DBServerSG (sg-09f3de85f7886ef1d)
Port 3306	VPC KDevaeshVPC (vpc-0a127c0375f0ebafdf)	Publicly accessible No
	Subnet group db-subnet-group	Certificate authority rds-ca-2019
	Subnets subnet-0c17087180c6bdcdc subnet-04f14737fcf2037ac	Certificate authority date August 22, 2024, 10:38 (UTC±10:38)

The screenshot shows the AWS CloudWatch Metrics interface with three main sections:

- Security group rules (3)**: A table with columns: Security group, Type, and Rule. Data:

DBServerSG (sg-09f3de85f7886ef1d)	EC2 Security Group - Inbound	sg-0ea9703a1aa5e1163
DBServerSG (sg-09f3de85f7886ef1d)	EC2 Security Group - Inbound	sg-0138f6652b6b15517
DBServerSG (sg-09f3de85f7886ef1d)	CIDR/IP - Outbound	0.0.0.0/0
- Replication (1)**: A table with columns: DB instance, Role, Region & AZ, Replication source, Replication state, and Lag. Data:

devaesh-db	Instance	us-east-1b	-	-	-
------------	----------	------------	---	---	---
- Proxies (0)**: A section with a "Create proxy" button.

10. Create thumbnail Lambda function :-

The screenshot shows the AWS Lambda CreateThumbnail function configuration page. Key details include:

- Function Overview**: Shows the function name **CreateThumbnail**, ARN **arn:aws:lambda:us-east-1:806833221271:function:CreateThumbnail**, and a description field.
- Triggers**: An S3 trigger named **S3** is listed.
- Configuration**: The **Configuration** tab is selected, showing the ARN and URL of the function.

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/CreateThumbnail?tab=configurable

1597735884.pdf | What is Marketing... | Philip Kotler - Fac... | Object-Oriented P... | Fields - C# Progra... | Object-Oriented P... | Understanding Pol... | RolesAndClasses....

N. Virginia | vocabs/user1333545=102014430@student.swin.edu.au @ 8068-3322... | ⓘ

CreateThumbnail

S3

Layers (0)

+ Add destination

+ Add trigger

Description

-

Last modified
2 hours ago

Function ARN
arn:aws:lambda:us-east-1:806833221271:function:CreateThumbnail

Function URL [Info](#)

-

Code | Test | Monitor | **Configuration** | Aliases | Versions

General configuration

Triggers

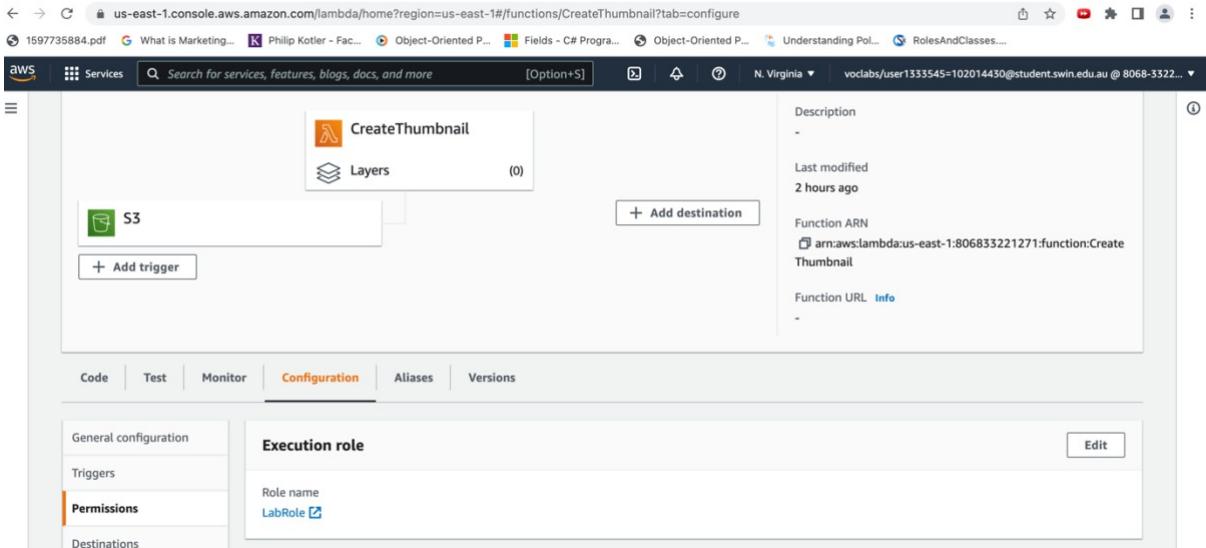
Permissions

Destinations

Execution role

Role name
[LabRole](#)

Edit



us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/CreateThumbnail?tab=configurable

1597735884.pdf | What is Marketing... | Philip Kotler - Fac... | Object-Oriented P... | Fields - C# Progra... | Object-Oriented P... | Understanding Pol... | RolesAndClasses....

N. Virginia | vocabs/user1333545=102014430@student.swin.edu.au @ 8068-3322... | ⓘ

Tags

VPC

Monitoring and operations tools

Concurrency

Asynchronous invocation

Code signing

Database proxies

File systems

State machines

You are not authorized to perform: iam:GetPolicy.

Resource-based policy [Info](#)

View policy document

A resource-based policy lets you grant permissions to other AWS accounts or services on a per-resource basis.

Policy statements (1)

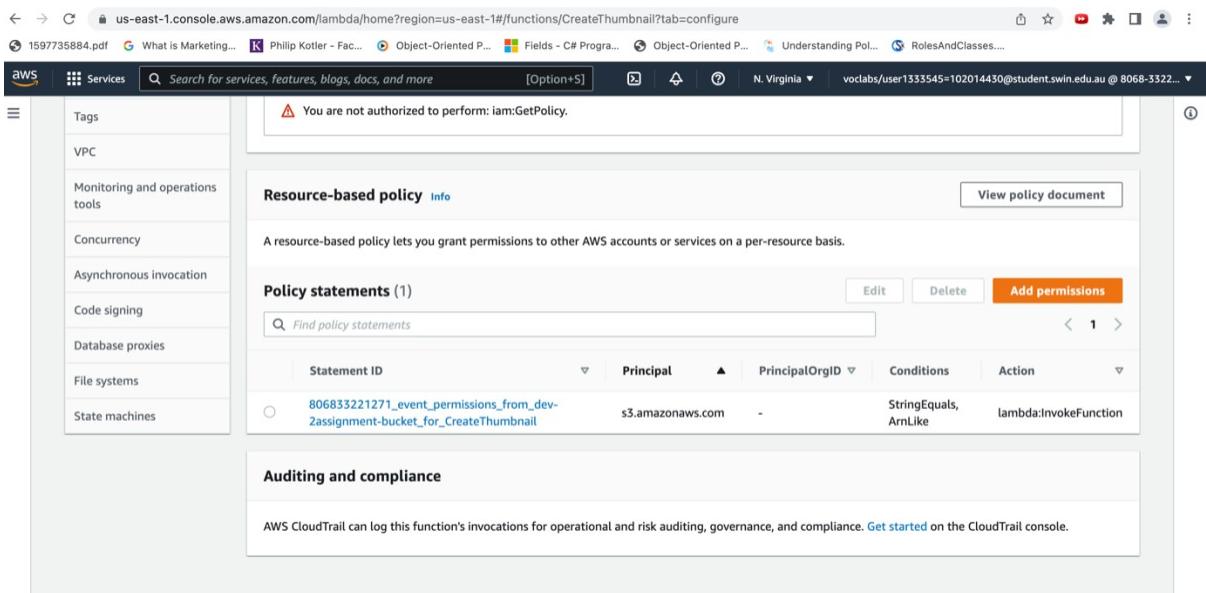
Statement ID Principal Conditions Action

806833221271_event_permissions_from_dev-Zassignment-bucket_for_CreateThumbnail s3.amazonaws.com - StringEquals, ArnLike lambda:InvokeFunction

Edit **Delete** **Add permissions**

Auditing and compliance

AWS CloudTrail can log this function's invocations for operational and risk auditing, governance, and compliance. [Get started](#) on the CloudTrail console.



The screenshot shows the AWS Lambda console interface. At the top, there's a navigation bar with links like '1597735884.pdf', 'What is Marketing...', 'Philip Kotler - Fac...', 'Object-Oriented P...', 'Fields - C# Program...', 'Object-Oriented P...', 'Understanding Pol...', 'RolesAndClasses....', and user information 'N. Virginia' and 'voclabs/user133545=102014430@student.swin.edu.au @ 8068-3322...'. Below the navigation is a search bar and a services menu.

In the main content area, a green box indicates a 'Execution result: succeeded (logs)'. Below it, a 'Test event' section is shown with a 'Test event action' dropdown set to 'Edit saved event' (which is highlighted in blue). An 'Event name' field contains 'Test'. Under 'Event JSON', the following JSON code is displayed:

```

1- {
2-   "bucketName": "dev-2assignment-bucket", "fileName": "swinburne.png"
3- }

```

Buttons for 'Delete', 'Save', and 'Test' are at the top right of the test event section.

11. Security Groups : -

The screenshot shows the AWS VPC Security Groups page. At the top, there are buttons for 'Info', 'Actions', 'Export security groups to CSV', and a 'Create security group' button. A search bar labeled 'Filter security groups' and a page number '1' are also present.

The main table lists 8 security groups:

<input type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-0f10975529a73da66	default	vpc-01ac5a77a3dfb55b7	default VPC security gr...	8068332212
<input type="checkbox"/>	-	sg-02bbb24e37cb17e36	NATServerSG	vpc-0a127c0375f0ebaf	Security group for NAT...	8068332212
<input type="checkbox"/>	-	sg-0138f6652b6b15517	DevServerSG	vpc-0a127c0375f0ebaf	Security group for the ...	8068332212
<input type="checkbox"/>	-	sg-09f3de85f7886ef1d	DBServerSG	vpc-0a127c0375f0ebaf	Security group for Dat...	8068332212
<input type="checkbox"/>	-	sg-0ea9703a1aa5e1163	WebServerSG	vpc-0a127c0375f0ebaf	Security group for web...	8068332212
<input type="checkbox"/>	-	sg-0a8c95c3b4bebc3da	ELBSG	vpc-0a127c0375f0ebaf	Security group for the ...	8068332212
<input type="checkbox"/>	-	sg-0fd76013362d23e36	default	vpc-0bdd8af130946bbaf	default VPC security gr...	8068332212
<input type="checkbox"/>	-	sg-0395640615f0b55bf	default	vpc-0a127c0375f0ebaf	default VPC security gr...	8068332212

- NATServerSG :-

Security Groups (1/8) [Info](#)

Inbound rules (4)

The screenshot shows the AWS Security Groups console. At the top, there's a header with 'Actions' and 'Create security group'. Below it is a search bar labeled 'Filter security groups'. The main table lists two security groups: 'sg-0f10975529a73da66' (default) and 'sg-02bbb24e37cb17e36' (NATServerSG). The NATServerSG row has a checked checkbox. A note below the table says 'You can now check network connectivity with Reachability Analyzer' with a 'Run Reachability Analyzer' button.

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-0f10975529a73da66	default	vpc-01ac5a77a3dfb55b7	default VPC security gr...	8068332212
-	sg-02bbb24e37cb17e36	NATServerSG	vpc-0a127c0375f0ebaf	Security group for NAT...	8068332212

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-03a2b4292cba864...	IPv4	HTTP	TCP	80
-	sgr-0db977e482f001dc0	IPv4	HTTPS	TCP	443
-	sgr-0ddff774c260415dd	IPv4	HTTP	TCP	80
-	sgr-0eb8a764f54f627d8	IPv4	HTTPS	TCP	443

- DevServerSG :-

Security Groups (1/8) [Info](#)

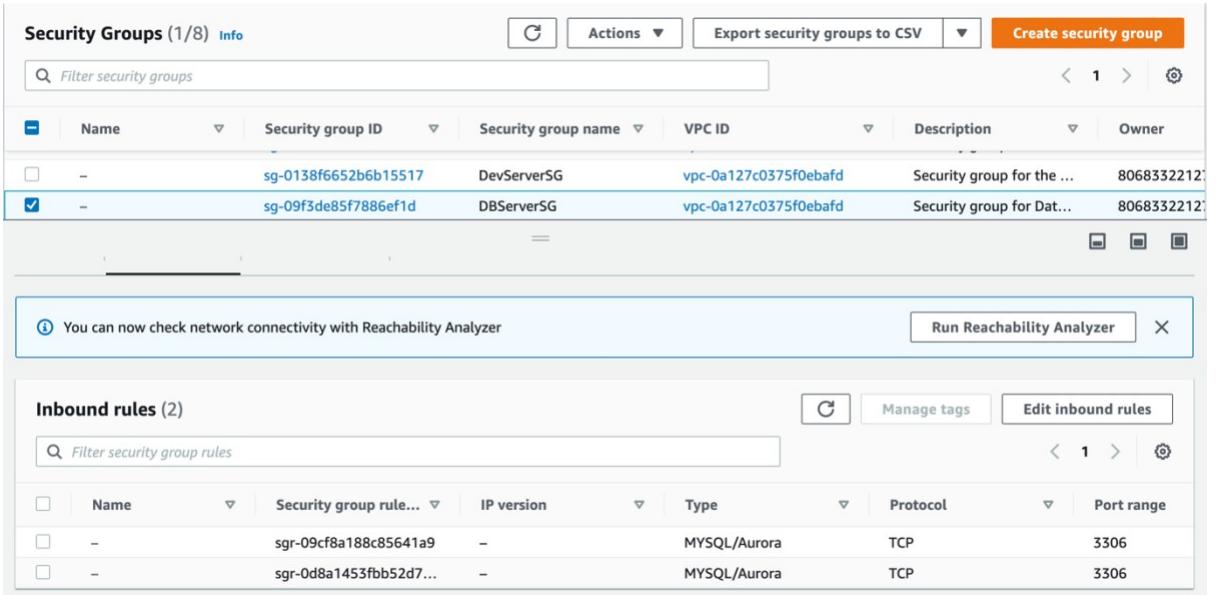
Inbound rules (3)

The screenshot shows the AWS Security Groups console. At the top, there's a header with 'Actions' and 'Create security group'. Below it is a search bar labeled 'Filter security groups'. The main table lists two security groups: 'sg-02bbb24e37cb17e36' (NATServerSG) and 'sg-0138f6652b6b15517' (DevServerSG). The DevServerSG row has a checked checkbox. A note below the table says 'You can now check network connectivity with Reachability Analyzer' with a 'Run Reachability Analyzer' button.

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-02bbb24e37cb17e36	NATServerSG	vpc-0a127c0375f0ebaf	Security group for NAT...	8068332212
-	sg-0138f6652b6b15517	DevServerSG	vpc-0a127c0375f0ebaf	Security group for the ...	8068332212

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-09fd53bf0b67ac5aa	IPv4	HTTP	TCP	80
-	sgr-0c5454bacb501a57a	IPv4	SSH	TCP	22
-	sgr-0abed3ee550e7e671	IPv4	HTTPS	TCP	443

- DBServerSG :-



The screenshot shows the AWS VPC Security Groups console. At the top, there is a header bar with buttons for 'Actions', 'Export security groups to CSV', and 'Create security group'. Below the header is a search bar labeled 'Filter security groups'.

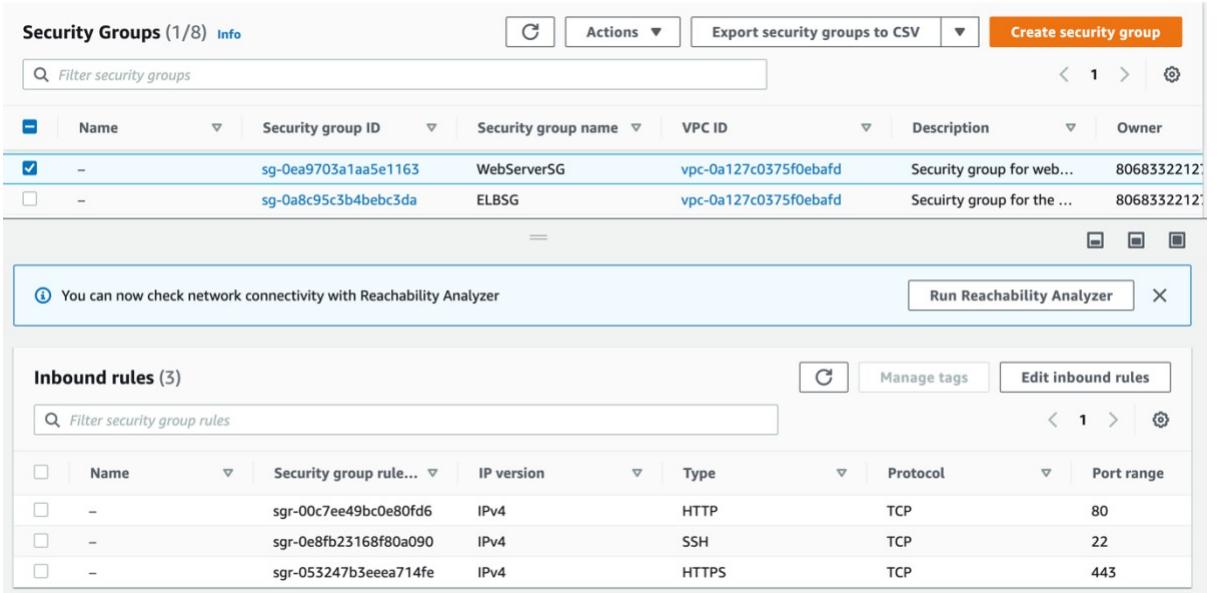
Name	Security group ID	Security group name	VPC ID	Description	Owner
sg-0138f6652b6b15517	DevServerSG	vpc-0a127c0375f0ebaf	Security group for the ...	8068332212	
sg-09f3de85f7886ef1d	DBServerSG	vpc-0a127c0375f0ebaf	Security group for Dat...	8068332212	

A message at the bottom left says: 'You can now check network connectivity with Reachability Analyzer' with a 'Run Reachability Analyzer' button.

Inbound rules (2)

Name	Security group rule...	IP version	Type	Protocol	Port range
sgr-09cf8a188c85641a9	-	MySQL/Aurora	TCP	3306	
sgr-0d8a1453fb52d7...	-	MySQL/Aurora	TCP	3306	

- WebServerSG :-



The screenshot shows the AWS VPC Security Groups console. At the top, there is a header bar with buttons for 'Actions', 'Export security groups to CSV', and 'Create security group'. Below the header is a search bar labeled 'Filter security groups'.

Name	Security group ID	Security group name	VPC ID	Description	Owner
sg-0ea9703a1aa5e1163	WebServerSG	vpc-0a127c0375f0ebaf	Security group for web...	8068332212	
sg-0a8c95c3b4bebcb3da	ELBSG	vpc-0a127c0375f0ebaf	Security group for the ...	8068332212	

A message at the bottom left says: 'You can now check network connectivity with Reachability Analyzer' with a 'Run Reachability Analyzer' button.

Inbound rules (3)

Name	Security group rule...	IP version	Type	Protocol	Port range
sgr-00c7ee49bc0e80fd6	IPv4	HTTP	TCP	80	
sgr-0e8fb23168f80a090	IPv4	SSH	TCP	22	
sgr-053247b3eeeea714fe	IPv4	HTTPS	TCP	443	

- ELBSG :-

The screenshot shows the AWS Security Groups console. At the top, there is a header with 'Security Groups (1/8)' and a 'Create security group' button. Below the header is a search bar labeled 'Filter security groups'. A table lists two security groups: 'ELBSG' (selected) and 'default'. The 'ELBSG' row contains the following details: Name: sg-0a8c95c3b4bebc3da, Security group ID: sg-0a8c95c3b4bebc3da, Security group name: ELBSG, VPC ID: vpc-0a127c0375f0ebaf, Description: Security group for the ..., Owner: 8068332212. The 'default' row has similar columns. Below the table, a message says 'You can now check network connectivity with Reachability Analyzer' with a 'Run Reachability Analyzer' button. At the bottom, there is a section titled 'Inbound rules (3)' with a table showing four rules: sgr-0b3ce69f83d26cd2 (HTTPS, TCP, port 443), sgr-08a47572669c8f56f (HTTP, TCP, port 80), sgr-0fdb2d5f3e93f1e23 (SSH, TCP, port 22).

12. IAM Roles and Policies :-

- EMR_EC2_DefaultRole – This IAM role is attached to the instances

The screenshot shows the AWS IAM Roles details page for 'EMR_EC2_DefaultRole'. The left sidebar shows navigation options like Identity and Access Management (IAM), Access management, Access reports, and others. The main content area shows the 'Summary' tab for the role. It includes fields for Creation date (March 28, 2022, 11:38 UTC+05:30), Last activity (51 minutes ago), ARN (arn:aws:iam:806833221271:role/EMR_EC2_DefaultRole), and Maximum session duration (1 hour). Below the summary, there are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Access Advisor', and 'Revoke sessions'. The 'Permissions' tab is selected, showing a table of managed policies attached to the role. The table includes columns for Policy name, Type, and Description. Policies listed include 'InvokeThumbnailLambdaPolicy', 'S3GetPolicyEc2', 'S3PutPolicyEC2', 'AmazonEC2FullAccess' (which provides full access to Amazon EC2 via the AWS Management Console), and 'AmazonElasticMapReduceforEC2...' (which is a default policy for the Amazon Elastic MapReduce for EC2 service role).

- LabRole – This IAM role is attached to the Create thumbnail lambda function

The screenshot shows the AWS IAM 'LabRole' details page. The 'Permissions' tab is selected, displaying a list of managed policies attached to the role. One policy, 'AmazonSSMManagedInstanceCore', is highlighted.

Policy name	Type	Description
c48803a718521f16544421w806833221271-VocLabPolicy1-1L2CGQ7AXGUE	Customer managed	
c48803a718521f16544421w806833221271-VocLabPolicy2-194ZHKRT5NEY6	Customer managed	
c48803a718521f16544421w806833221271-VocLabPolicy3-VSHR7S607UFD	Customer managed	
S3GetPutPolicyLambda	Customer managed	
AmazonSSMManagedInstanceCore	AWS managed	The policy for Amazon EC2 Role to enable AWS Systems Manager service core functionality.

- S3GetPutPolicyLambda :-

The screenshot shows the AWS Policies > S3GetPutPolicyLambda summary page. The 'Permissions' tab is selected, displaying the policy's ARN and a table of its permissions.

Service	Access level	Resource	Request condition
S3	Limited: Read, Write	BucketName string like dev-2assignment-bucket, ObjectPath string like All	None

- **InvokeThumbnailLambdaPolicy :-**

Policies > InvokeThumbnailLambdaPolicy

Summary

Policy ARN arn:aws:iam::806833221271:policy/InvokeThumbnailLambdaPolicy ⓘ

Description

Permissions Policy usage Tags Policy versions Access Advisor

Policy summary {} JSON Edit policy ⓘ

Filter

Service	Access level	Resource	Request condition
Allow (1 of 323 services) Show remaining 322	Lambda Limited: Write	FunctionName string like CreateThumbnail	None

Delete policy ⓘ

- **S3GetPolicyEc2 :-**

Policies > S3GetPolicyEc2

Summary

Policy ARN arn:aws:iam::806833221271:policy/S3GetPolicyEc2 ⓘ

Description

Permissions Policy usage Tags Policy versions Access Advisor

Policy summary {} JSON Edit policy ⓘ

Filter

Service	Access level	Resource	Request condition
Allow (1 of 323 services) Show remaining 322	S3 Limited: Read	BucketName string like dev-2assignment-bucket, ObjectPath string like All	None

Delete policy ⓘ

- S3PutPolicyEc2

Policies > S3PutPolicyEC2

Summary

[Delete policy](#)

Policy ARN	arn:aws:iam::806833221271:policy/S3PutPolicyEC2											
Description												
Permissions	Policy usage	Tags	Policy versions	Access Advisor								
Policy summary	{ } JSON	Edit policy										
<input type="text" value="Filter"/> <table border="1"> <thead> <tr> <th>Service</th> <th>Access level</th> <th>Resource</th> <th>Request condition</th> </tr> </thead> <tbody> <tr> <td>Allow (1 of 323 services) Show remaining 322</td> <td>S3 Limited: Write</td> <td>BucketName string like dev-2assignment-bucket, ObjectPath string like All</td> <td>None</td> </tr> </tbody> </table>					Service	Access level	Resource	Request condition	Allow (1 of 323 services) Show remaining 322	S3 Limited: Write	BucketName string like dev-2assignment-bucket, ObjectPath string like All	None
Service	Access level	Resource	Request condition									
Allow (1 of 323 services) Show remaining 322	S3 Limited: Write	BucketName string like dev-2assignment-bucket, ObjectPath string like All	None									

13. Testing the functionality of the photo album website : -

- The PhotoAlbum website is accessible through the load balancer.

← → ⌂ Not Secure | develb-1398204334.us-east-1.elb.amazonaws.com/photoalbum/photouploader.php

1597735884.pdf G What is Marketing... K Philip Kotler - Fac... O Object-Oriented P... F Fields - C# Progra... O Object-Oriented P... U Understanding Pol... R RolesAndClasses....

Photo uploader

Photo title:

Select a photo (Select PNG file for best result):

Description:

Date:

Keywords (comma-delimited, e.g. keyword1, keyword2, ...):

[Photo Album](#)

Student name: Devaesh Kaggdas

Student ID: 102014430

Tutorial session: Thursday 3:00 PM

Uploaded photos:

[Upload more photos](#)

Click to go back, hold to see history

Photo	Name	Description	Creation date	Keywords
	Swinburne Logo	Logo of Swinburne uni	2022-04-17	logo, university
	messi	logo of messi	2022-04-17	logo, messi
	uefa	logo of uefa	2022-04-10	logo, uefa
	susnet	Logo of sunset	2022-04-16	logo, susnet

- Photo added to the bucket, metadata to the database and lambda creates thumbnail and uploads it to the bucket : -

Photo uploader

Photo title:

Select a photo (Select PNG file for best result): messi.jpg

Description:

Date:

Keywords (comma-delimited, e.g. keyword1, keyword2, ...):

[Photo Album](#)

Not Secure | ec2-44-192-128-183.compute-1.amazonaws.com/phpmyadmin/sql.php?server=1&db=devaesh&table=photos&pos=0

1597735884.pdf What is Marketing... Philip Kotler - Fac... Object-Oriented P... Fields - C# Progra... Object-Oriented P... Understanding Pol... RolesAndClasses....

phpMyAdmin

Recent Favorites

New devaesh New photos information_schema mysql performance_schema sys

Server: devaesh-db.cwykngyau3v.us-east-1.rds.amazonaws.com ~ Database: devaesh ~ Table: photos

Browse 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 - 2 (3 total, Query took 0.0004 seconds.)

SELECT * FROM `photos`

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

+ Options Phototitle Description Creationdate Keywords S3REFERENCE

Phototitle	Description	Creationdate	Keywords	S3REFERENCE
Swinburne Logo	Logo of Swinburne uni	2022-04-17	logo, university	https://dev-2assignment-bucket.s3.amazonaws.com/sw...
messi	logo of messi	2022-04-17	logo, messi	https://dev-2assignment-bucket.s3.amazonaws.com/me...
uefa	logo of uefa	2022-04-10	logo, uefa	https://dev-2assignment-bucket.s3.amazonaws.com/ue...

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

Query results operations Print Copy to clipboard Export Display chart Create view

Not Secure | s3.console.aws.amazon.com/s3/buckets/dev-2assignment-bucket?region=us-east-1&tab=objects

1597735884.pdf What is Marketing... Philip Kotler - Fac... Object-Oriented P... Fields - C# Progra... Object-Oriented P... Understanding Pol... RolesAndClasses....

AWS Services Search for services, features, blogs, docs, and more [Option+S]

Amazon S3 dev-2assignment-bucket Info

Objects Properties Permissions Metrics Management Access Points

Objects (6)

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](#)

C Copy S3 URI Copy URL Download Open Delete Actions Create folder

Upload

Find objects by prefix

Name	Type	Last modified	Size	Storage class
messi.jpg	jpg	April 17, 2022, 04:56:56 (UTC+05:30)	7.5 KB	Standard
resized-messi.jpg	jpg	April 17, 2022, 04:56:57 (UTC+05:30)	3.3 KB	Standard
resized-swinburne.png	png	April 17, 2022, 04:55:49 (UTC+05:30)	2.0 KB	Standard
resized-uefa.png	png	April 17, 2022, 04:57:22 (UTC+05:30)	2.3 KB	Standard
swinburne.png	png	April 17, 2022, 04:55:49 (UTC+05:30)	5.6 KB	Standard

The screenshot shows the AWS S3 console interface. The left sidebar has sections for Buckets, Storage Lens, and AWS Marketplace for S3. The main area shows the 'Objects' tab for the 'dev-2assignment-bucket'. It lists six objects: 'messi.jpg', 'resized-messi.jpg', 'resized-swinburne.png', 'resized-uefa.png', 'swinburne.png', and 'messi.jpg' again. Each object has columns for Name, Type, Last modified, Size, and Storage class.

Name	Type	Last modified	Size	Storage class
messi.jpg	jpg	April 17, 2022, 04:56:56 (UTC+05:30)	7.5 KB	Standard
resized-messi.jpg	jpg	April 17, 2022, 04:56:57 (UTC+05:30)	3.3 KB	Standard
resized-swinburne.png	png	April 17, 2022, 04:55:49 (UTC+05:30)	2.0 KB	Standard
resized-uefa.png	png	April 17, 2022, 04:57:22 (UTC+05:30)	2.3 KB	Standard
swinburne.png	png	April 17, 2022, 04:55:49 (UTC+05:30)	5.6 KB	Standard
messi.jpg	jpg	April 17, 2022, 04:56:56 (UTC+05:30)	7.5 KB	Standard

- Terminate servers then check to see if replacement EC2 instances are automatically deployed by the ASG

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar lists navigation options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and Instances (with sub-options for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, and Dedicated Hosts). The main content area has a header with tabs for Instances (selected) and Info, and buttons for Refresh, Connect, Instance state, Actions, and Launch instances. A search bar is also present. The main table displays six instances:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Pub
<input type="checkbox"/>	NAT server	i-092aebdfa566bfad5	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	ec2
<input type="checkbox"/>	Web servers	i-0862bfe7fb5b1f5eb	Terminated	t2.micro	-	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Web servers	i-0b750a32d22abca3b	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Dev server	i-09778342cb9855393	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1b	ec2
<input type="checkbox"/>	Web servers	i-0ba0172f8491525a7	Terminated	t2.micro	-	No alarms	+ us-east-1b	-
<input type="checkbox"/>	Web servers	i-deeccc2dec92604cca	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1b	-

Below the table, a section titled "Select an instance" is shown.

- All EC2 targets are healthy.

EC2 > Target groups

Target groups (1/1) [Info](#)

Name	ARN	Port	Protocol	Target type	Load balance
DevGroup	arn:aws:elasticloadbalancing:us-east-1:123456789012:targetgroup/DevGroup/5555555555555555	80	HTTP	Instance	DevELB

Details

Target type Instance	Protocol : Port HTTP: 80	Protocol version HTTP1	VPC vpc-0a127c0375f0ebaf		
IP address type IPv4	Load balancer DevELB				
Total targets 2	Healthy 2	Unhealthy 0	Unused 0	Initial 0	Draining 0

EC2 > Target groups

Target groups (1/1) [Info](#)

Name	ARN	Port	Protocol	Target type	Load balance
DevGroup	arn:aws:elasticloadbalancing:us-east-1:123456789012:targetgroup/DevGroup/5555555555555555	80	HTTP	Instance	DevELB

Registered targets (2)

Instance ID	Name	Port	Zone	Health status	Health status details
i-07e0221d8bd6b96df	Web servers	80	us-east-1b	healthy	
i-0612f5ee56d7f3d29	Web servers	80	us-east-1a	healthy	

- Direct access to S3 photos, which should not be publicly accessible.

The screenshot shows a web browser window with the URL `s3.amazonaws.com/dev-2assignment-bucket/`. The page content is an XML error response:

```
<Error>
<Code>AccessDenied</Code>
<Message>Access Denied</Message>
<RequestId>5FTMF0C529VDHQY4</RequestId>
<HostId>TAxtJnR4etSRICH7fCc7P8z75fOB6xGj06uu/Wa9kp6CHth2yj0bHWkDTyr4XKRP2li1YOfzALY=</HostId>
</Error>
```

14. URL of the website to access via ELB : -

<http://develb-1398204334.us-east-1.elb.amazonaws.com/photoalbum/album.php>

