

TWEET APP – AWS SCREENSHOTS

DYNAMO DB:

The screenshot shows the AWS DynamoDB console interface. On the left is a navigation menu with options like Dashboard, Tables, Update settings, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Reserved capacity, Settings, DAX, Clusters, Subnet groups, Parameter groups, and Events. The main area displays the 'UserCollection' table. It includes a 'Scan/Query Items' section with a search bar and buttons for 'Scan' and 'Query'. Below this, a table of items is shown with columns: userid, contactNumber, email, firstName, lastName, and password. The table contains 7 items, including users like 'smelly_cat', 'joey_loves_food', 'rachel.green', and 'tweetapp_admin'.

userid	contactNumber	email	firstName	lastName	password
smelly_cat	1234098765	phoebe@im...	Phoebe	Buffay	\$2a\$10\$3hjQan4KldoIOGYMxbHieMWLa3.JPqgv...
joey_loves_food	1234554321	joey.food@...	Joey	Tribbiani	\$2a\$10\$T1DhjenGRfnc39erF92ajpR4R4NBP4H5er...
rachel.green	9876512345	rachel@mai...	Rachel	Green	\$2a\$10\$ndyArj4OQ08ie3EGFSQ55wvWpIPXF2wPY...
tweetapp_admin	9876598765	fsaproject2...	TweetApp	Admin	\$2a\$10\$vsqfHOTJ2Jsvv/xei8ThsOKJedKa9KgZm8B...

LAMBDA:

The screenshot shows the AWS Lambda console for the 'TweetAppDbLambda' function. The 'Function overview' tab is active, displaying a diagram of the function's architecture. It shows the function is triggered by an 'API Gateway' (4 triggers) and has no layers. The 'Code source' tab is also visible. The right sidebar provides details about the function, including its description, last modified time (3 days ago), function ARN, and function URL.

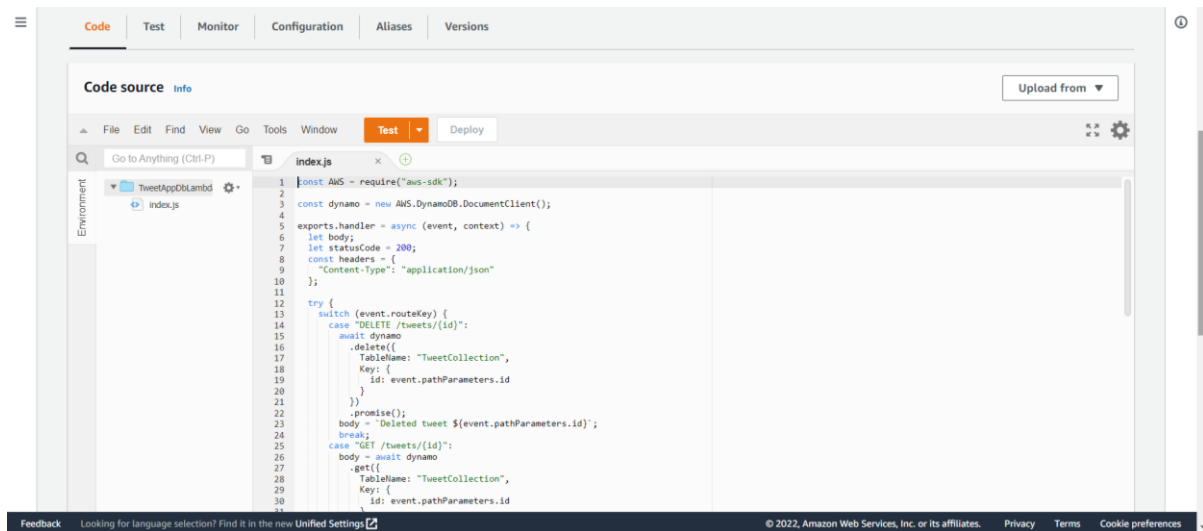
Function overview

- Function: TweetAppDbLambda
- Layers: (0)
- API Gateway: (4)
- + Add trigger
- + Add destination

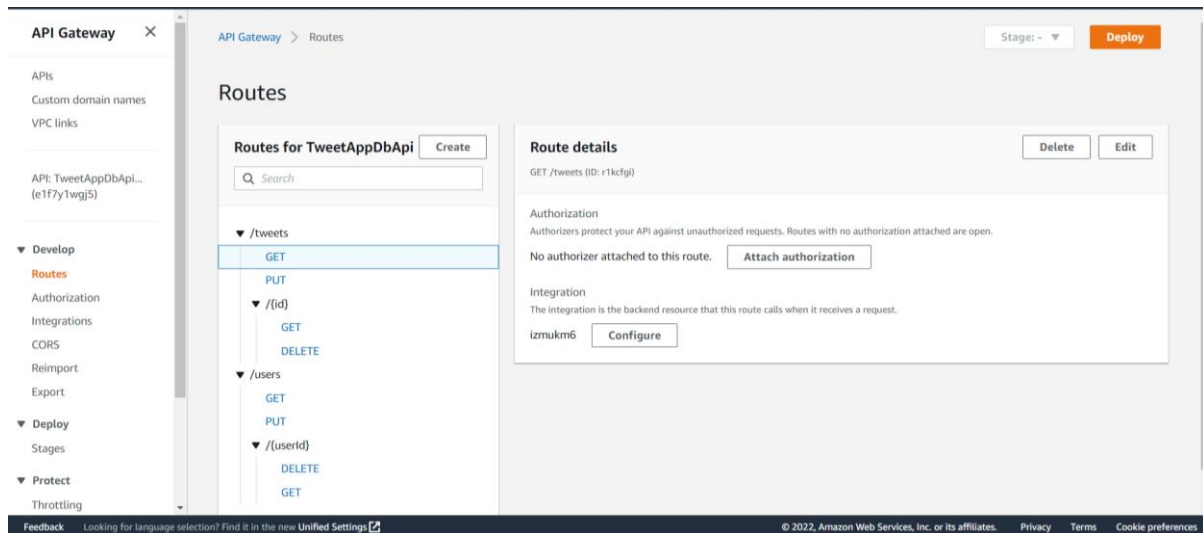
Code source

Function details:

- Description: -
- Last modified: 3 days ago
- Function ARN: arn:aws:lambda:ap-south-1:142374649549:function:TweetAppDbLambda
- Function URL: Info



API GATEWAY:



ECS - FARGATE:

Clusters

Task Definitions

Account Settings

Amazon ECR

Repositories

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Subscriptions

For more information, see the [ECS documentation](#).

Create ClusterGet Started

Viewlistcardview all1 - 1 of 1

tweet-service-cluster-1 > CloudWatch monitoring
Default Monitoring

FARGATE

1 Services0 Running tasks1 Pending tasks

EC2

0 Services0 Running tasks0 Pending tasksNo data CPUUtilizationNo data MemoryUtilization0 EC2 container instances

EXTERNAL

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Clusters > tweet-service-cluster-1

Cluster : tweet-service-cluster-1

Update ClusterDelete Cluster

Get a detailed view of the resources on your cluster.

Cluster ARN am:aws:ecs:ap-south-1:142374649549:cluster/tweet-service-cluster-1

Status ACTIVE

Registered container instances 0

Pending tasks count 1 Fargate, 0 EC2, 0 External

Running tasks count 0 Fargate, 0 EC2, 0 External

Active service count 1 Fargate, 0 EC2, 0 External

Draining service count 0 Fargate, 0 EC2, 0 External

ServicesTasksECS InstancesMetricsScheduled TasksTagsCapacity Providers

CreateUpdateDeleteActions

Last updated on September 28, 2022 6:14:11 AM (0m ago)

Filter in this pageLaunch type ALLService type ALL1 - 1

Service Name	Status	Service type...	Task Definiti...	Desired tas...	Running tas...	Launch typ...	Platform ver...
tweet-service-ecs	ACTIVE	REPLICA	tweet-service...	1	0	FARGATE	LATEST(1.4.0)

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Clusters > tweet-service-cluster-1 > Service: tweet-service-ecs

Service : tweet-service-ecs

UpdateDelete

Cluster tweet-service-cluster-1

Status ACTIVE

Task definition tweet-service-1.2

Service type REPLICA

Launch type FARGATE

Service role AWSServiceRoleForECS

Created By am:aws:iam::142374649549:root

Desired count 1

Pending count 0

Running count 1

DetailsTasksEventsAuto ScalingDeploymentsMetricsTagsLogs

Last updated on September 28, 2022 6:14:47 AM (0m ago)

Task status: RunningStopped

Filter in this page1 - 1Page size 50

Task	Task Definition	Last status	Desired status	Group	Launch type	Platform version
8d78a2bb19e04c7f99c...	tweet-service-1.2	RUNNING	RUNNING	service:tweet-service-ecs	FARGATE	1.4.0

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APPLICATION LOAD BALANCER:

The screenshot displays the AWS Management Console for an Application Load Balancer named 'tweet-service-lb'. The console shows the 'Basic Configuration' tab with the following details:

Name	DNS name	State	VPC ID	Availability Zones	Type
tweet-service-lb	tweet-service-lb-387958997...	Active	vpc-0e0b29e79ba187dc5	ap-south-1a, ap-south-1b	application

Below the table, the 'Basic Configuration' section shows the Name as 'tweet-service-lb' and the ARN as 'arn:aws:elasticloadbalancing:ap-south-1:142374649549:loadbalancer/app/tweet-service-lb:b669216e0ca6ec9c'.

CLOUDWATCH ALARM:

The screenshot shows the AWS CloudWatch console with a green notification bar stating 'The actions have been successfully enabled.' The 'Alarms' section is active, displaying a list of alarms:

Name	State	Last state update	Conditions	Actions
tweet-service-ecs-scale-down-alarm	In alarm	2022-09-28 06:14:38	CPUUtilization <= 30 for 1 datapoints within 5 minutes	Actions enabled
tweet-service-ecs-scale-up-alarm	OK	2022-09-27 09:26:33	CPUUtilization >= 50 for 1 datapoints within 5 minutes	Actions enabled

SNS NOTIFICATION:

The screenshot shows the Amazon SNS console interface. On the left is a navigation menu with options like Dashboard, Topics, Subscriptions, Mobile, Push notifications, Text messaging (SMS), and Origination numbers. The main panel displays the details for a topic named 'tweet-service-lb-scale'. The details include Name, Display name, ARN, Topic owner, and Type. Below the details are tabs for Subscriptions, Access policy, Data protection policy, Delivery retry policy, Delivery status logging, Encryption, and Tags. The Subscriptions tab is active, showing a table with one subscription. The subscription details are as follows:

ID	Endpoint	Status	Protocol
a31e61db-3f40-41bf-a822-f10afbdc53c0	fseproject2519@gmail.com	Confirmed	EMAIL

EXAMPLE NOTIFICATION:

The first screenshot shows an email notification from 'tweet-service-lb-scale' to 'me'. The subject is 'ALARM: "tweet-service-ecs-scale-up-alarm" in Asia Pacific (Mumbai)'. The email body contains the following information:

You are receiving this email because your Amazon CloudWatch Alarm "tweet-service-ecs-scale-up-alarm" in the Asia Pacific (Mumbai) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [50.06859779357911 (27/09/22 03:50:00)] was greater than or equal to the threshold (50.0) (minimum 1 datapoint for OK -> ALARM transition)" at "Tuesday 27 September, 2022 03:55:33 UTC".

View this alarm in the AWS Management Console
<https://ap-south-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=ap-south-1#alarmsV2:alarm/tweet-service-ecs-scale-up-alarm>

Alarm Details:

- Name: tweet-service-ecs-scale-up-alarm
- Description: INSUFFICIENT_DATA -> ALARM
- State Change: Threshold Crossed
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [50.06859779357911 (27/09/22 03:50:00)] was greater than or equal to the threshold (50.0) (minimum 1 datapoint for OK -> ALARM transition)
- Timestamp: Tuesday 27 September, 2022 03:55:33 UTC
- AWS Account: 142374649549
- Alarm Arn: am.aws.cloudwatch.ap-south-1.142374649549.alarm.tweet-service-ecs-scale-up-alarm

Threshold:

The alarm is in the ALARM state when the metric is GreaterThanOrEqualToThreshold 50.0 for at least 1 of the last 1 period(s) of 300 seconds.

Monitored Metric:

- MetricNamespace: AWS/EC2
- MetricName: CPUUtilization
- Dimensions: {ServiceName = tweet-service-ecs, ClusterName = tweet-service-cluster-1}

The second screenshot shows another email notification from 'tweet-service-lb-scale' to 'me'. The subject is 'ALARM: "tweet-service-ecs-scale-down-alarm" in Asia Pacific (Mumbai)'. The email body contains the following information:

You are receiving this email because your Amazon CloudWatch Alarm "tweet-service-ecs-scale-down-alarm" in the Asia Pacific (Mumbai) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [27.59677354991436 (27/09/22 03:54:00)] was less than or equal to the threshold (30.0) (minimum 1 datapoint for OK -> ALARM transition)" at "Tuesday 27 September, 2022 03:59:38 UTC".

View this alarm in the AWS Management Console
<https://ap-south-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=ap-south-1#alarmsV2:alarm/tweet-service-ecs-scale-down-alarm>

Alarm Details:

- Name: tweet-service-ecs-scale-down-alarm
- Description: OK -> ALARM
- State Change: Threshold Crossed
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [27.59677354991436 (27/09/22 03:54:00)] was less than or equal to the threshold (30.0) (minimum 1 datapoint for OK -> ALARM transition)
- Timestamp: Tuesday 27 September, 2022 03:59:38 UTC
- AWS Account: 142374649549
- Alarm Arn: am.aws.cloudwatch.ap-south-1.142374649549.alarm.tweet-service-ecs-scale-down-alarm

Threshold:

The alarm is in the ALARM state when the metric is LessThanOrEqualToThreshold 30.0 for at least 1 of the last 1 period(s) of 300 seconds.

Monitored Metric:

- MetricNamespace: AWS/EC2
- MetricName: CPUUtilization
- Dimensions: {ServiceName = tweet-service-ecs, ClusterName = tweet-service-cluster-1}