

DAY 10 ASSIGNMENT

1) Creating Serverless API to read & write data from AWS managed database Dynamodb

DynamoDB creation

The screenshot shows the AWS Management Console for DynamoDB. On the left is a navigation menu with options like Dashboard, Tables, Items, PartiQL editor, Backups, Exports to S3, Reserved capacity, DAX, Clusters, Subnet groups, Parameter groups, Events, and a feedback link. The main area shows a list of tables with 'akempdb' selected. Below the table list, the 'Query' tab is active, displaying a 'Completed' status with 'Read capacity units consumed: 0.5'. It shows 'Items returned (2)' in a table:

empid	empname	location
2	hari	bangalore
1	arun	chennai

Policy and Role

The screenshot shows the AWS Management Console for IAM. On the left is a navigation menu with options like Dashboard, Access management, Policies, Access reports, and Access analyzer. The main area shows the 'Summary' page for the 'akd10policy'. The 'Permissions' tab is active, showing the policy's JSON statement:

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "dynamodb:BatchGetItem",
8         "dynamodb:GetItem",
9         "dynamodb:Query",
10        "dynamodb:Scan",
11        "dynamodb:BatchWriteItem",
12        "dynamodb:PutItem",
13        "dynamodb:UpdateItem"
14      ]
15    }
16  ]
17 }
```

Below this, there is a notification about a new feature to generate a policy based on CloudTrail events. The 'akday10role' is also shown, with its 'Summary' page displaying the following details:

Role ARN	Role description	Instance Profile ARNs	Path	Creation time	Last activity	Maximum session duration
arn:aws:iam::590852515231:role/akday10role	Allows Lambda functions to call AWS services on your behalf. Edit	/	/	2021-12-05 00:06 UTC+0530	Not accessed in the tracking period	1 hour Edit

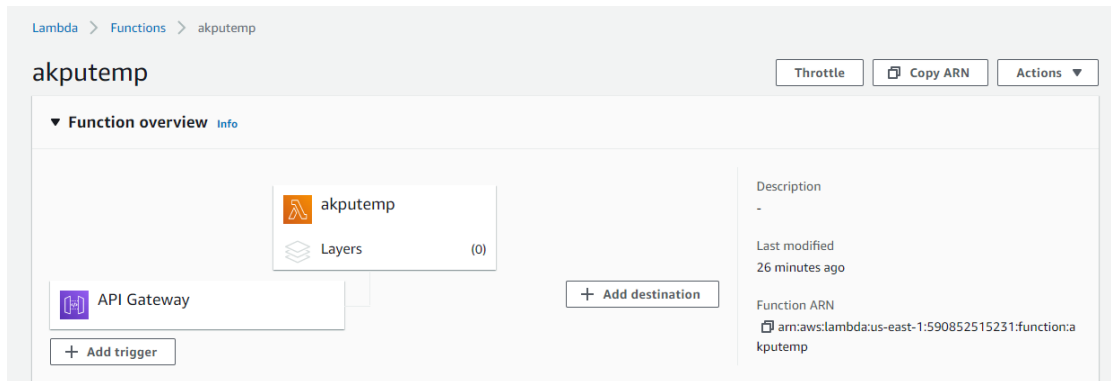
Lambda function for get employee details

The screenshot shows the AWS Lambda console for the function 'akgetemp'. The 'Function overview' tab is selected, displaying the function's icon, name, and a list of layers (currently empty). A description field is present but empty. The 'Last modified' timestamp is '37 minutes ago'. The 'Function ARN' is 'arn:aws:lambda:us-east-1:590852515231:function:akgetemp'. An 'API Gateway' trigger is shown with an 'Add trigger' button. A '+ Add destination' button is also visible.

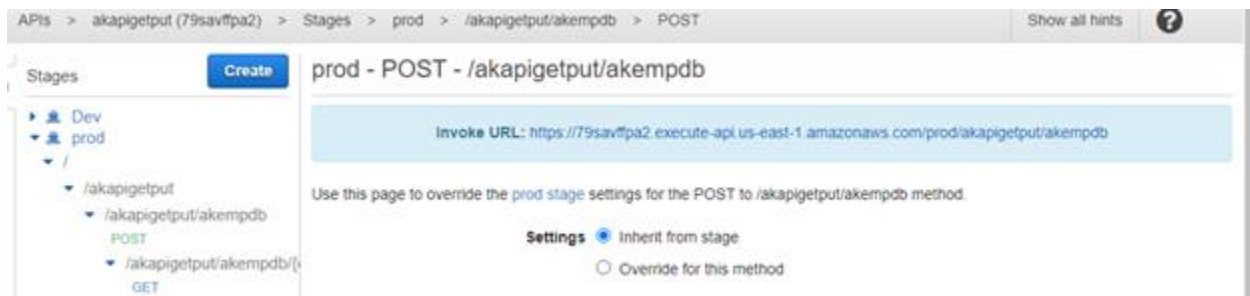
Get method execution for reading value from db

The screenshot shows the Amazon API Gateway console for the API 'akapigetput'. The 'Dev' stage is selected, and the method 'GET - /akapigetput/akempdb/{empid}' is chosen. The 'Invoke URL' is 'https://79savffpa2.execute-api.us-east-1.amazonaws.com/Dev/akapigetput/akempdb/{empid}'. The 'Settings' are set to 'Inherit from stage'. Below, the 'Method Execution' tab is active, showing a test call to the method. The 'Path' is '/akapigetput/akempdb/1', the 'Query Strings' are 'param1=value1¶m2=value2', and the 'Response Body' is a JSON object: { "location": "chennai", "empid": "1", "empname": "arun" }.

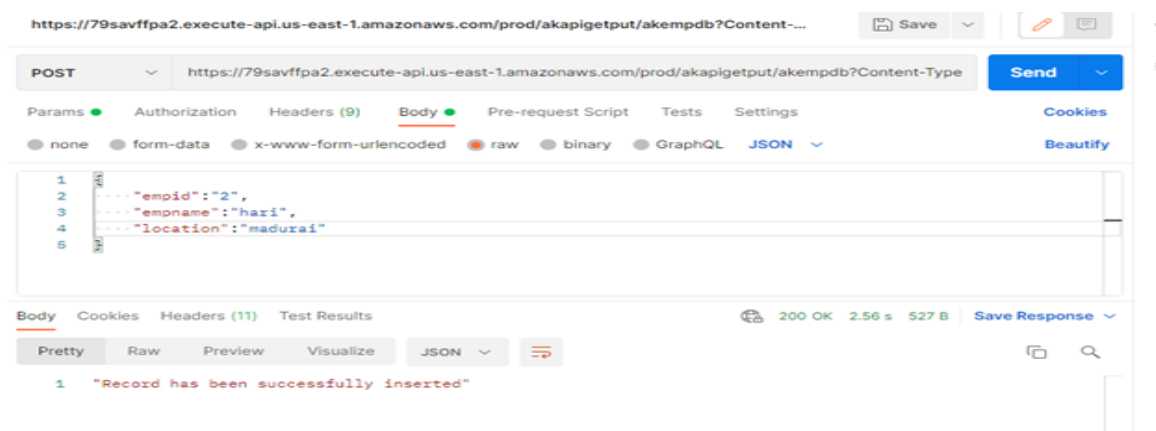
Lambda function for putting employee details



POST method execution for writing value from db



Inserting values into DynamoDb via postman



Verification of entries on DynamoDB

The screenshot displays the AWS Management Console interface for DynamoDB. On the left, the navigation pane shows the 'DynamoDB' section with options like Dashboard, Tables, Items, PartiQL editor, Backups, Exports to S3, and Reserved capacity. The 'Items' option is selected. The main panel shows a list of tables, with 'akempdb' selected. The 'Table or index' dropdown is set to 'akempdb'. The 'Run' button is clicked, and the status is 'Completed' with 'Read capacity units consumed: 0.5'. The 'Items returned (3)' section shows a table with columns 'empid', 'empname', and 'location'. The data rows are:

empid	empname	location
2	hari	madurai
1	arun	chennai
3	GOKUL	madurai