

REPORT AWS - NODE JS - DYNAMODB

For the project was used [NodeJs Serverless Stack](#). In site serverless view the installation instructions for serverless

Previous Steps

- Install serverless

```
npm i serverless
```

- Install newman

```
npm install -g newman
```

- Clone this repo
- Have a aws account(free) or create
- Install or have an aws cli view site for installation instructions:

<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>

- Install or have an node js environment view site for installation instructions:

<https://www.journaldev.com/7402/node-js-environment-setup-node-js-installation>

View Documentation

View the file manual.pdf located in documentation folder

Import Postman collection

Import the file report.postman_collection.json located in documentation folder in postman

Commands for installation

```
aws configure
```

Configure your aws credentials

```
npm install
```

Execute the command in the root folder of the project for install the node packages located in package.json file

```
sls deploy
```

Deploy serverless stack to AWS cloud.

```
npm test
```

Execute jests tests

```
callback
  ✓ get report (90ms)

pdf_report tests
  ✓ pdf_report is object
  ✓ pdf download mock

14 passing (357ms)
```

Configure postman endpoint

```
Service Information
service: serverless-aws-nodejs
stage: dev
region: us-east-1
stack: serverless-aws-nodejs-dev
resources: 48
api keys:
  None
endpoints:
  POST - https://ppoziu3l24.execute-api.us-east-1.amazonaws.com/dev/report
  PUT - https://ppoziu3l24.execute-api.us-east-1.amazonaws.com/dev/report/{id}
  GET - https://ppoziu3l24.execute-api.us-east-1.amazonaws.com/dev/report/{id}
  GET - https://ppoziu3l24.execute-api.us-east-1.amazonaws.com/dev/reports
  GET - https://ppoziu3l24.execute-api.us-east-1.amazonaws.com/dev/csv
  DELETE - https://ppoziu3l24.execute-api.us-east-1.amazonaws.com/dev/report/{id}
  GET - https://sts3dnagf9.execute-api.us-east-1.amazonaws.com/api/pdf_report
functions:
  create: serverless-aws-nodejs-dev-create
  edit: serverless-aws-nodejs-dev-edit
  get: serverless-aws-nodejs-dev-get
  all: serverless-aws-nodejs-dev-all
  csv: serverless-aws-nodejs-dev-csv
  pdf_report: serverless-aws-nodejs-dev-pdf_report
  delete: serverless-aws-nodejs-dev-delete
layers:
  None

Monitor APIs by route with the Serverless Dashboard: run "serverless"
mac@MacBook-Pro-de-MAC:~/serverless-dynamodb-nodejs-starter%
```

- take the url part of the endpoint similar to the following: <https://xxxxx.execute-api.us-east-1.amazonaws.com>
- copy the endpoint string before /dev/report then set the variable awsReportEndPoint in postman
- copy the endpoint string before /pdf_report then set the variable awsPdfReportEndPoint in postman

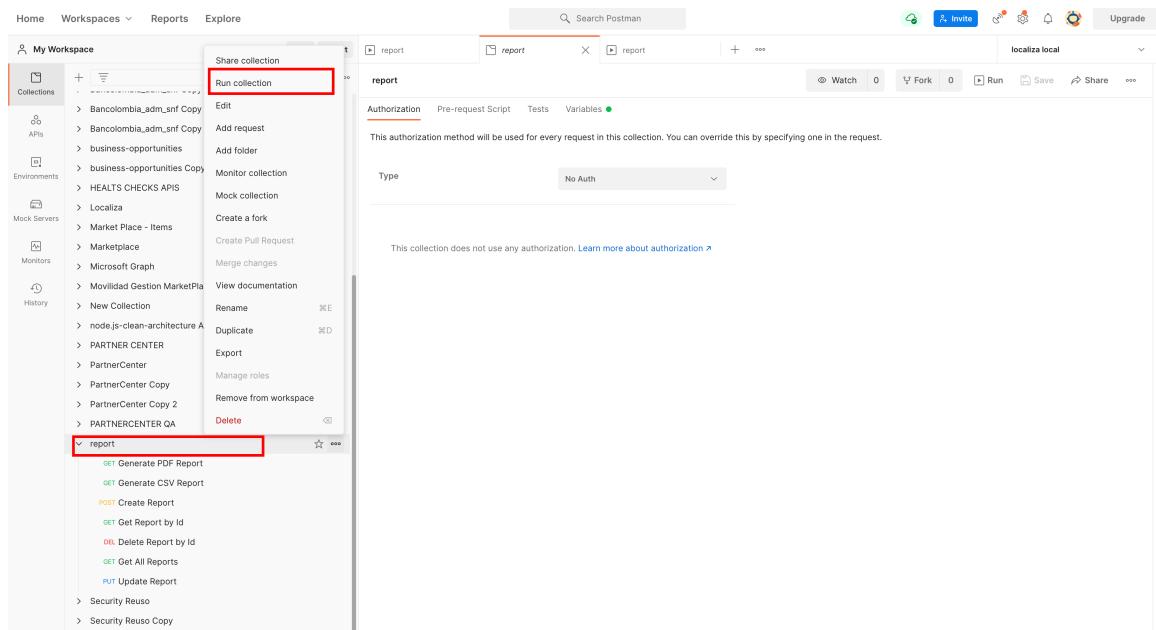
Services endpoints

Consume in postman any of the following services:

- Create Report
- Update Report
- Delete Report by Id
- Get Report by Id
- Get All Reports
- Generate CSV Report
- Generate PDF Report

Run integration tests

Press right click on the collection in postman, in the menu that is displayed select run collection:



The screenshot shows the Postman Runner interface. On the left, the 'My Workspace' sidebar lists various collections, environments, mock servers, and monitors. The 'Collections' section is expanded, showing a list of collections including 'Bancolombia_adm_snf Copy 3', 'Bancolombia_adm_snf Copy 4', 'business-opportunities', 'business-opportunities Copy', 'HEALTHS CHECKS APIS', 'Localiza', 'Market Place - Items', 'Marketplace', 'Microsoft Graph', 'Movilidad Gestion MarketPlace', 'New Collection', 'node.js-clean-architecture API', 'PARTNER CENTER', 'PartnerCenter', 'PartnerCenter Copy', 'PartnerCenter Copy 2', 'PARTNERCENTER QA', and a 'report' collection which contains 'Generate PDF Report', 'Generate CSV Report', 'Create Report', 'Get Report by Id', 'Delete Report by Id', 'Get All Reports', and 'Update Report'. A red box highlights the 'report' collection in the sidebar.

The main area is titled 'RUN ORDER' and displays a list of selected API tests:

- ✓ GET Generate PDF Report
- ✓ GET Generate CSV Report
- ✓ POST Create Report
- ✓ GET Get Report by Id
- ✓ DEL Delete Report by Id
- ✓ GET Get All Reports
- ✓ PUT Update Report

Below the list are configuration options:

- Iterations: 1
- Delay: 0 ms
- Data: Select File
- Save responses
- Keep variable values
- Run collection without using stored cookies
- Save cookies after collection run

A large blue button labeled 'Run report' is at the bottom right, with a red box highlighting it.

Run integration test in console with newman

Run the next command replace the vars `awsPdfReportEndPoint` and `awsReportEndPoint` with the endpoint url

```
newman run documentation/report.postman_collection.json --global-var
"awsPdfReportEndPoint=https://xxxx.execute-api.us-east-1.amazonaws.com" -
-global-var "awsReportEndPoint=https://xxxx.execute-api.us-east-
1.amazonaws.com"
```

The screenshot shows a Visual Studio Code interface with the following details:

- Left Sidebar:** Shows icons for Source Control, Search, and other development tools.
- Top Bar:** Displays the title "package.json — serverless-dynamodb-nodejs-starter".
- File Explorer:** Shows a tree view with "Changes" selected, indicating there are no changes (0).
- Code Editor:** Displays the contents of the package.json file. The "generate-safe-id" dependency is highlighted with a yellow selection bar.
- Terminal:** Shows the command "npm test" being run, followed by a detailed report of test results. The report includes sections like "Get Report by Id", "Delete Report by Id", "Get All Reports", "Update Report", and "Update Report With Errors". It also provides a summary of assertions run and their outcomes.

```

{
  "name": "serverless-dynamodb-nodejs-starter",
  "version": "1.0.0",
  "private": true,
  "dependencies": {
    "body-parser": "^1.19.0",
    "dynamodb-doc-client-wrapper": "^2.6.1",
    "express": "^4.17.1",
    "generate-safe-id": "^1.0.3",
    "jest": "^27.3.1",
    "jsoncsv": "^5.0.0",
    "mocha": "^9.1.3",
    "pdfkit-table": "^0.1.59",
    "save": "^4.4.0",
    "save-dev": "^6.0.1-security"
  }
}

Status code is 200
✓ the name field has more than 25 characters
- Get Report by Id
  GET https://ppozzi124.execute-api.us-east-1.amazonaws.com/dev/report/Fvh3s-07PB9V7smasdboZKHGV2WesF1M1LnZUcW [200 OK, 712B, 222ms]
  ✓ Status code is 200
  ✓ Get report by id
- Delete Report by Id
  DELETE https://ppozzi124.execute-api.us-east-1.amazonaws.com/dev/report/Fvh3s-07PB9V7smasdboZKHGV2WesF1M1LnZUcW [200 OK, 486B, 205ms]
  ✓ Status code is 200
- Get All Reports
  GET https://ppozzi124.execute-api.us-east-1.amazonaws.com/dev/reports [200 OK, 4.59kB, 228ms]
  ✓ Status code is 200
- Update Report
  PUT https://ppozzi124.execute-api.us-east-1.amazonaws.com/dev/report/Fvh3s-07PB9V7smasdboZKHGV2WesF1M1LnZUcW [200 OK, 671B, 276ms]
  ✓ Status code is 200
  ✓ Validate json response data created
- Update Report With Errors
  PUT https://ppozzi124.execute-api.us-east-1.amazonaws.com/dev/report/Fvh3s-07PB9V7smasdboZKHGV2WesF1M1LnZUcW [200 OK, 715B, 198ms]
  ✓ Status code is 200
  ✓ the name field has more than 25 characters

  iterations: 1 | failed: 0
  requests: 9 | failed: 0
  test-scripts: 9 | failed: 0
  prerequest-scripts: 0 | failed: 0
  assertions: 16 | failed: 0

total run duration: 3.4s
total data received: 9.53kB (approx)
average response time: 349ms (min: 141ms, max: 882ms, s.d.: 247ms)
  
```

Some Examples of api responses:

My Workspace

New Import

aws report

report / Get All Reports

GET {{awsReportEndPoint}}/dev/reports

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (11) Test Results

Pretty Raw Preview Visualize JSON

Status: 200 OK Time: 214 s Size: 3.58 KB Save Response

```
1 [
2   {
3     "alias": "Alias",
4     "species": "Species",
5     "company": [
6       {
7         "name": "Company name",
8         "team": "Company team"
9       },
10      {
11        "alias": "Alias",
12        "species": "Species",
13        "company": [
14          {
15            "name": "Company name",
16            "team": "Company team"
17          },
18        ],
19        "dateCreation": 1636485870531
20      }
21    ]
22 }
```

My Workspace

New Import

report

report / Generate PDF Report

GET {{awsPdfReportEndPoint}}/api/pdf_report

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 267 ms Size: 2.21 KB Save Response

Report				
Name	Alias	Species	Company Name	Company Team
Cesar Vegas	cesarvega	special	The factory of users	Dandemis
Name example	Alias example	species example	company name example	company team example