**Lambda Function with Nodes js app using AWS SAM**

1. **Cleanup nodes js app and aws sam cli(try to clean from control panel)**
2. **Install below softwares.**
3. <https://nodejs.org/en/download/>
4. <https://aws.amazon.com/cli/>
5. Open Gitbash terminal and create project folder and then run below command from that folder.
6. Install aws sam cli using this command -- pip install aws-sam-cli
7. **Run aws sam cli command – sam –version**
8. **Run aws cli command – aws –version**
9. **Run nodejs command – npm –version**
10. **You will see versions of softwares from above commands.**
11. **Initialise your project using this command – npm init**
12. **Install AWS sdk v3 and lambda handler using below command**
13. npm install @aws-sdk/client-s3 aws-lambda
14. **Run this command to open visual studio code from gitbash**
15. **Code .**
16. **You will see visual studio code in your task bar then open and trust your directory by clicking check box**
17. **Create Your lambda function using below file**
18. **Index.js file with below content**

const AWS = require('aws-lambda');

exports.handler = async (event) => {

*// Your Lambda function logic goes here*

};

1. **Create template.yml file with below content**

AWSTemplateFormatVersion: "2010-09-09"

Transform: AWS::Serverless-2016-10-31

Description: A simple AWS Lambda function with Node.js, AWS SDK v3, and AWS SAM

Resources:

MyLambdaFunction:

Type: AWS::Serverless::Function

Properties:

Runtime: nodejs18.x

Handler: index.handler

CodeUri: .

Description: My serverless Lambda function

Timeout: 10

MemorySize: 128

1. **Create S3 bucket in your aws console and copy bucket name**
2. sam package --template-file template.yaml --output-template-file packaged.yaml --s3-bucket YOUR\_S3\_BUCKET
3. **Login to aws console and check lambda function created there are not, if created then copy function name and then use in below command**
4. aws lambda invoke --function-name pasteyourlambdafunctioname output.txt
5. **once run above command then you can see 200 ok message which means app is running as expected in lambda function using AWS SAM cli.**

**Further queries please refer this doc**

[**https://www.mtechzilla.com/blogs/aws-lambda-with-node-js-and-aws-sam-a-step-by-step-guide-to-building-serverless-applications**](https://www.mtechzilla.com/blogs/aws-lambda-with-node-js-and-aws-sam-a-step-by-step-guide-to-building-serverless-applications)