Serverless Project :- Packaged deployed Nodejs API on a serverless aws Lambda function with api gateway integration.

AWS Lambda (useful whenever we got request for data this function works for it):-

* API (Created by devloper) 🡪 Database (data comes from API)

Devops need to create a serverless infra which have lambda function which helps us to insert and retrieve data and this data go inside the dynamoDB

we will use serverless framework

* It gives us flexibility & scaling with Azure, Azure & most importantly with AWS lambda.
* In this technology we don’t need to run server for 24 hours, it triggers whenever request comes and process the request through server.

Lambda is a function which takes the data from the user storing the data in database and provide output.

API :-

Flow of Project :-

Serverless is a framework which provides the support of different-different apps and after providing some commands its work of us.

Prereq. For serverless framework:-

* Host Machine (for writing code), Serverless & AWS CLI
* Serverless & AWS CLI needed to be connected

Setup a linux ec2 instance

* AMI – Ubuntu 22.04 Lts
* T2.micro
* Security group -> allowing port 22 & 8080
* Log in to ec2 user through cli or on aws connect

Sudo apt update

curl -sL https://deb.nodesource.com/setup\_14.x | sudo bash -

sudo apt -y install nodejs

node -v

npm -v

mkdir serverless-project

cd serverless-project

sudo npm install -g serverless

Serverless

sudo apt install awscli

Creating IAM user and connecting it through access key

aws configure

serverless

* Node.js - HTTP API

It will ask for deploy project – yes

* Its created a lambda function and app inside the AWS Lambda
* There would be a **handlers.js** file its uses for **API** written by devloper
* We need do create a **serverless.yml** file

**New project :-**

mkdir full-project

cd full-project

ls

cd aws-node-http-api-project

ls

git checkout dev

ls

npm install

cat package.json

npm install aws-sdk uuid

ls

cd src/

ls

vi kaamBharo.js

cd ..

vim serverless.yml

Creating a table in **dynamodb** and providing its arn on **Resourse** of **serverless.yml**

serverless deploy