Prerequisites:

AWS basics,nodejs,serverless using aws lambda

In serverless all data are isolated in separate services like some have db, some have data tobe updated, and some to be other functionalities which are serverless.

Why to use serverless framework?

1. As it has different services as they will be differents files it can be shared to teams members and can be done easily rather depending on others to be completed.
2. As it has different files data changes can be done easily.
3. It allows different languages like c#,js,python,…
4. It has good functionality,infrastructure and it supports other plugins.

No we will start

1.In AWS account create a user with programmatic access as it gives access to API calls and it has access key and secret access , create a group with admin access policy.

2.On your system install nodejs from nodejs.org

Then install serverless globally by command:npm install –g serverless

Then check the versions : serverless –v or sls –v

Now install aws command line cli from <https://docs.aws.amazon.com/cli/latest/userguide/install-windows.html>

Go and install msi for windows or any based on your os.

Check the version in powershell or cmd : aws --version

Next do the configuration by using command : aws configure

By uing access key and secret acces key which was created after creating the user.

Components of serverless framework:

It has 4

1. Functions:which executes the events and get response eg:Lambda
2. Events: it has api calls i.e, http calls eg:getting clowatch logs,getting or updating data from or to dynamodb, api gateway
3. Resources:it has db related things, i.e, it has data about the storing things like bucket eg:dynamodb,s3,cloudfront
4. Services:it encapsulatesfunctions,events and resources

It is like a project.it’s where you define the lambda functions,the events that triggers them and any aws infrastructure resources they require all ina file called serverless.yml

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All services has same logic,configuration,specifi c rest API’s, resources

Development steps:

1.Setup and dependencies.

2.Configuration

3.Function code

4.Deploy and test

Creating a serverless template name is serverless-reminders:

Cmd:serverless create --template aws-nodejs --path serverless-reminders

By the above one it creates the files: serverless.yml,handler.js

Serverless.yml file has applicationname: serverless-reminders,runtime env:nodejs and functions i.e, crud operations will be called from handler file

Handler.js file has all crud operations are defined.

Here I have used Mongodb atlas for connection string

I have a took a free trail and created cluster their it created a string for mongoose connection

Next I have installed:

Cmd : npm init –y (for package.json),

Cmd : npm i --save-dev serverless-offline,(to check whether it works in offline )

Cmd : npm i --save mongoose dotenv (to connect to mongodb)

Model need to be created,db file for database connection i.e,Mongoose

Cmd : serverless offline start –skipCacheInvalidation(run the app aafter complete setup in offline)