Ad Devops Assignment-2 1 Greate Rest API with the sensoners fromework Stops to Coope or RESTAPI with sever loss Frome work 1) Install Semoness Francison globally creting the following command on the terminalsnpm install - a Semerless This command installs the serveness framework on your machine globally using npm. Trallow you to Crate, marage and deploy semesters appliantons across various cloud provider using Aws 2 Create a new service with Aws Noder is -- path rest-9pi This command initialises a new serveness source Called rest-api. It (seates a folder Containing basic files and a template specifically configured for building servous appliation using node is on AWS Lambda : 3, Navigate to Project directory! cd rest-apt This constand changes directory into the newly crate specific to our service 4, Initialise Moderja project and install dependence, Dem init -4 ARM install express serverless home The express dependency builds the RESTAPI and Senates - http integrates Gapras with Aus Cambda

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Edit he savaless you file to include: Sourice rest-api Provider : name : aws rentime: node is 14.x Stage! dex region: Os- easthockers: handler : handler copp - http: This Configuration specifice the service came. Aux provider cettings and define the lambol furtion with MITTO event trigges. 6. Edit handleg is to add the Express app: Const express = require (express); Const semences: require ("Sementes: http"); Const dop: expadi(); mexage: 'Hellowork' (2); module export , 122: Servettess (900); This Creates a simple expres app with a single rove I reliouseld andexport it in a hombale Conpathble format FOR EDUCATIONAL USE Sundaram

Deploy the service: semerker deploy Peploys the API to API to Awa setting vi rescures like lambolg and API Gakeway A URI is generated for testing. are study for sonarabe Sonor Oute is an open source platform used for continue insection. It detects bugs, cone smells & security unmabilities in Project across various prog languages profile exertion in sonox oube Clustity Droble are exertal consguration that aleke rule applied during Code analyce. Gath motor has a quality profile for every supported language custom profile can be created by Copying Creates an independent profile, while extending in hen't to be from parent Drobite permissions to manage quality profile are smitted to up with administrable privetope It allows for comparsion of two profile to theck difference using sonar Cloud to analyze github code I t is a cloud sound counterport of construct integrate directly with Github, Bit Bucket, Azur & Gitlab xpostories To get Started with sonarcioud via Guns Signul Organizator to personal account once connect, serve will be done witheren Project corresponding to repository, while CI Based onalysis integrate with your build process once the orders is compre

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3) Songraube in Java IDE Congration is an IDE that reforms on the fly cade gralysis as you write code. It help developer developer developer developer Intell, Idea or Eclipse. To set it up, install the solarling Plysin; configure the correction with songraphe go songroup & Select the project Brokle to analyze Java Coole This appears goves immediate feedback on Gode quality & maintain code from beginning 5 max Oube supports python test average, reporting but it Contract port adjust your blind process so that tolking before it ensure, Rie is saved in different room path for setui you can use fox, py Text to Configure & run text - In you tax. in challe config for report in XMI formant. The build son process can also be automateduring Github actions 5, Analysing Moderis projects with snarouse By Node is project sonar Quie can any ze I charriet and is code. Similar to sythem setup you can configure sonor Qu to analyze node is project be installing the plyin lung Some scamer to Scan the Project. It will check the Code FOR EDUCATIONAL USE

Tessaform "self-serve" Infrustricture Model a greate Tessaform modules that codity the startands si for deploying common sexusces like UPGS, EC2, 53 bucker Ex for an ECZ instance: ecz - module / main. +t. vaniable " in Stance - type !! & defaut = " +2. micro" derousce "aws, instance! "example"s ami = "ami-12345676" instance - type = varingtance type tags = & name = " example - instance" CC2-module 1 outputs, ff: Output "1 ; retance - id" & value = aws_ingrance · example · id O Texasorm Cloud Integration with service now you can integrate Tengtom Good with service now to automate the in Fragmotuse sequest promes using approach it was burn on bicket approval, automating resource deployment Grample workflows IIA product team white a request in service now 1 The request friggs & woodards it with stand desarre defails

3) Cocating Tessaform mades for tame de fine revable modules for commonly sequested resource like we sworking (VPC, subnets) 3 Compute (ECZ, Autosauling Groves) 3) Storage (S3, RDS) 4, JAM ROES/Policies By doing this, teams can manage meior own infrument awhite gravin terining compliance with organization Standords.