nuntime: nadejs. 14. x stage: der regioni us reast-1 functions " handler handler app oven 13: - http: path:/ method: any This configuration specifies the semice name, An provider settings and defines the Law bda fune with HITP event trigger. () Edit settings of handlings to add Express app. const express = require (renpress). anst senerless = require (somerless the); const app = enpress()s app. get ('Thellothondd, (reg res) => res. json (Em (Hello Marperops '})), module enportsappi (serverless (app)) This creates a simple Express app with a single Melloworld and enports it in a Lambda comp 1) Deploy the service: serveless deploy Deploys the API to AWS setting up resources literally and API Gateway. A URL is generated 8) Test the deployed API. curl https: //: Zapi-id>. execute -api zregion>. ama Sundaram FOR EDUCATIONAL USE

Using above command, it returns a JSON message of Redeploy after updates. serverless deploy After the modification the code, redeploy it to update the API with our changes Demore the service: seneless, remove. The above command temores all AWS tesources associated with the APF rensuring that There are no changes for unused services

Create your own profile in sonorquibe for feeting project quality · Use Sonor Cloud to analyze your Github code.
· Install Sonorlint in your Java Intellig IDE

or Eclipse IDE and unalyse your Java Cole.
· And I are Delle and the internal of the control · Analyse Python project with sonorqube.

· Analyse Node js project with sonorqube. > Create your own profile in sonar Qube Download and install sonorqube from the official website. Unzips the file and start to server by running: 1/bin/ nindons-286-64/startsonor.bot This launches Songraube locally and can be accessed at http:// local host: 9000 credentials (user-name admin pass word: admin After logging on, change the password. 3) Novigate to Projects tab, click on treate Now Project' assign a project key and name and generate a project token' Vse Soner (lond to Analyze Github Code) Sign up for Sonar (loud from the official websi Using your (pithub aurout)

2) In Sonar(Lord under Projects > create project choose your withub repository and grant Sonar Cloud areas to it

3) Adda Sonar project properties file in the not of your repository with the following code FOR EDUCATIONAL USE

sonar project key: 2-your project fey?

sonar organization 2-your organization?

sonar host url https://sonarcloud.io use sonarsconner to analyze the code by running the following command: sonar-scanner. Instell Sonarhut in your Java Intellij or Eclipse IDE and analyze Java Code Install Sonorlint by going into IntelliJ or Felipse, go to the Plugins & Morket place and search for Sonas Lint : Install and restart your DE In the IDE configure sonar Lint by linking it to your Sonar Qube or Sonar Cloud project to sync the rules and profiles open a Jora project and use Sonorbut to unalyze it It will display issues directly in The Ist while coding of Some of the enors are formed as lode smells Sonor Lint provides real-time feedback or code quality based on sonor Oupe rules. rode feliability scalability etc Analyze python project with Sonor Pube: I set up a Python code in a project and ensure that somerQube is running locally Download and configure sonar scanner from its noncritical official nebsite and in the sonor-projectemperies file, edit to include the following soner key : python project FOR EDUCATIONAL USE

sonor-language: 97. 3) Run The analysis of the project by executive the following from The project directory. The results will be pushed to your local Some server and The analysis is visible on dashboard Analyse Node; s project with Sonor Oube:

Set up a Mode; s project In SmarQube ensure that all JovaScript,
Type Script plugins have been installed. Plugin
can be installed from the Marketplace tab in
Sonar-Qube Sonai-Qube 3) Create a sonor-project properties file in your project post and include the following in it sonor: projectkey: node project sonar language: 15 Sonor sources:

4) Run The analysis, of the project by execute
the sonor-scanner command Bonar Qube will analyze the Alode is proje and show results on the cashboard, highli code quality, bugs and rulnerabilities Sundaram

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At a lorge organization, your centralized operations

Tem may get many repetitive infrastructure requests

Tou can use Terratorm to build a 'self-sene'

Infrastructure model that lets product teams manay

infrastructure own infrastructure independently. You are Their own Infrastructure independently. You can greate and use Terratorm modules that codify the standards for deploying and managing conices on your organization's practices. Terratorma Cloud can also integrate with the taketing systems like Semice Now to automatically infrastructure to sure matically generat new infrastructure requests Self- Seme Infrastructure with Terraform: Tenra form is midely - used in fras meture as code (Iac) Tool, offers a solution to This problem by enabling a self- serve infrastructure model fullis model, the product fears are empowered to provision and manage their om infrastructure without newding to go through The central operations learn for every request. Instead the tearn can provide Tenaform modules That codify the organizations infrastructure standards These modules act as reusable templates that that is consistent, seure and compliant with organizational policier Terratorn modules for standordization.

Terratorn modules are reusable templates that Simplify the process of deploying infrast necture by coarfying the standards for managing, FOR EDUCATIONAL USE

resources (eg: servers databases, notworking).

Praduct leams can leverage these module to deploy resources that comply with the organizational policies ensuring considering and compliance across different en vironmen · In such large organization the speration.

Team can create standardized modules for co infrastructure patterns such as deploying web o This helps the team to maintain security, rot manually configuring infrasbruture 3) Integration with Tickethy systems like Senzer · Terraform cloud or Enterprise can integrals will Servicenow tools, automoting the process of generating new infrastructure requests. · For this, the integration between SemieNow & Torraform cloud allows senice Now to act as the central hub for managong in transtructure provisions · Pequesti are sent via noutes that tells through The approval workflows bused on the policies. · Senice Now is updated in real-time with the provisioning status while ensuring compliance with standarde Senice Now & updated en real-time with the provisionry track progress. This model ophinizes the efficiency by delegating infrashmeline management, to, product, teems; FOR EDUCATIONAL USE Sundaram