

Treate a REST API with the snewerless Fromework To preate a REST API with the spennedons transcuor in theory, here's on overview of the process 1) Sexurexless Tramework Setup The newerless framework is used to build serverless applicationer and easily manage clad resources, such as AWS Lambda First, you set up the framework on your machine. The framework automator the praces of deploying your functions to the doud 2) Configure the API: The come configuration happens in the merureness youl file. This file is used to define the service provider (like AUB), surtime environment (e.g., Nodeja and the API's functions. Each function common pands to a especific endpoint and HATTP method (CHET, POST, etc.) For example, you might define one function that hardless setrieures data with a get request and another that creates data with a post request. 3) Frest driver functions: Sourerless was an event-driver model where each function is triggered by an event. For a REST API, the events are HTTP requests, 4) Deployment: With a simple nerverless deploy command your API is deployed to the dord. The nerverless Framework automatically not up API Craturay and AWS Lambda, excaling renownces based on demand Here deployment the framework provider.

you with the live URL of the API endpoints You test those end-points using tools like POSTMARA the covered Lambda function. In summary, the somewess framework allows to build, deploy, and manage REST API's efficiently abstracting away the complexity of managing seared doud infrastructure. P. 2 Case estudy for Sonaxqube:

Create un own profile in esonaxqube for testing project.

Use Sonaxqube to analyze your Crithub code.

Install esonaxint in ur Tava intellij ide or edipse and analyze Towa code · Analyze python project with sonorqube · Analyze node is project with project In this case situally, the objective is to improve cody quality wing Sonorqube, Sonordoud and Sonordint f different programming languages and environments tirst, Sonarqube is inestabled on a local machine or sexuer to create a custom quality profile. This pro defines especific rules and quality goter for testing project quality. Developers can customize metrice like rode duplication and complexity to match their properts. Once configured the project code is analy-by surring the Sanarable sacarner which generate detailed reports on the quality dashboard. (Sundaram)

Next Generaland is used for Grithub Integration By malysis is triggered on every push to the suppositiony. This intermedian helps track code quality over time, with invients quallable directly in the Somandaud dashboard real-time teedback while coding It helps Java developed detect 123 up, bype, or code smills as they civite code, eronemo innediat fires Lasty Emar luke can be used to arrive python and Node is project by antiquing the sonar-project properties the and worm predetined or automized rules This provides on the depth aralysis of coole curious rot eprosente hos mistrica eles proposes programming and the to large appointion, usua articlized operations tern may get many recentive introductive yequest by an the Territorin to hild a "sett-serve" introntructure made that let products teams marage their and introduce independently. You can exect on our it is not sent select material ser De official and marging transces in your Enotos in ampliance with your apparations matices Creatorine Cloud car also integrate with ticketing the source Now to automoti--call sentate new intrastructure years

) Temptour "Self - source" Introstructure model O Terraform modules for solf - serve introstruc · Create Terratoria modules that codify the standardo for deploying common resources VPC'S EC2 instances, and S3 Example module for an ECO instance: ecz - module/main ++: variable "instance-type" {

default = " + 2 micro" 34620mace " ams \_ mostance" " example" &
oni = "ani - 12345678" instance type = var instance type Name = "example - instance" ecs - module/outputs If: ¿ 11 bi - sonoteni " teqtio bi stanoxe sonoteni - emo - emos (Sundaram) FOR EDUCATIONAL USE

earner can now use this module to deploy EC2 instances with. module "ecz" ? Source = ". /ec-2-module" "muibon et = appt - sonotron" executed integration with service Now.
You can integrate Terraform Cloud with service.
Now, to automate the infrastructure request process. · Using Terratorm's API - driver approach 9 source Now can frigger Terratorm suns based on ticket approach tremplap sourcese pritomotus Example workflow Marines or transpar a stimutare most touborn H (I) surburtearting was The sequent triggers a Terratorm doud updates the Service Now Ficket with the status and suesource details 3 L'reating Terratorm modules for teams. Define reunable modules for commonly repeated resources Wetworking CVPC, Subnets) D Compute (E.C.), outobooling groups

