



case study For sonarqube de la commentation de la c As organizations scale their software development peocesses, maintaining high-quality code becomes exitical, that's when sonaeqube comes in play. It is an open-source plat form that continuously code smells & security issues. Dugs, vulnerabilités code smells & securify issues. 1) Im provement of overall code quality. 2) Automate the detection of bugs, code smells, yulnezabilities in the early stage.

3) Stundardize code quality.

4) Reduce technical debt of establish a sustainable development process. Sonarcloud Pax arraby zing gittal code: Create your own profile: 1) Download & install sonarqube from its official websiete, unzip & configure. 2) login with default credentials: us es name/ possessed: admin/ admin. 3) clack on créale new project, asign a name & generale a project token thru: sonar cloud to analyze github code:) Signup Login in sonar doud. 2) on sonatdoud, under project - analyze new projects choose your github account & select a repo-click on set-up & peaced with the default settings

3) In the repo, add a work flow yam! file (sonarque) 4) Generale a security token that settings - secrets & variables actions. Add a new secrets called sonat clouds 5) Push changes to your reposition by having aling the project dashboard. * Sonatlint for in eclipse ID& Taya Intellit. 1) Install sonor link by going to plugins marketp 2) configure it by linking it to sonar quitel son 18) To Frigger a full project analysis.

3) Open the java project in eclipse. Sover!

will automatically start code analysis. as y

edit your file. 5 Sonatlint then displays issues like bugs, consults etc. * Analyse python peoject with sonat qube: 1) Download sonatscanner (in Sonatquele) pati to your system path; enough 2) In Sonarquise create a new project a security: token and bajosa o alorsa 3) Add peoperties to root of your python people Create a gonar-project properties 4 jadd project key, urt, login sources lonquage. sto Run Gonat-Scannet is on business Teacher's Sign .:

Page O Analyze node js peojed. Joseph Sonarqube & sonarscanner.

2) In the root of node je project, creak a file gonar-project properties.

3) Results can be viewed from sonarqube project dashboard. Marinal of House Sindus most in a Terratorn 'self-service! interstructure mode. Terraform modules sor self-service inteq · create Terraform moderules that codify the standards for deploying common resources like VPCs, ECz instances of 53 buckets. Eco-module for an Eco instance.

Eco-module/main. ##

variable "instance-type" }

default = "t2. micro" 19:0:109 10109 MAS 12 resource "aus-instance" "example" {
ami="ami-12345678" instance type - var instance type tags=5 Name=reexample-instance" Dutput "instructive-id" {

yalue- aux instructe. enample-id Teams can now use this to deploy Ecz infuncy

Teacher's Sign.:

Pare O Tetraform Cloud integration with service Now: to automate the infrastructure request process. · Using Terraforn's API-driven approach, service N approvals automating resource deployment. Example workflow

O A kam submits a request in Service Now

For new infrastructure: The request triggers a Testalism cloud updates Service von ficket with the stutues resource detail 3) Creating Textation module for Fears. Define reusable moduly for commonly requested relouses like 1) Networking (VPC, subnets) 2) Compute (EC2) 3) Storage (53) min de landsh 4) JAM ROLLY POLICIES. - By doing this, teams can manage their own infrastructure while maintaining compliance with organizational standards. Adaptio Buban . ord pissianteris suglio Mahre our influence