Sub : Adv. Devops ( Assignment - 2) Name & Achan talchan dani Class: DIS A Roll no. 25 DATE:
PAGE: Create a REST API with serverless framework Creating REST API with serverless granework is an efficient way to deploy serverless applications that can scale automatically without managing services. and serverless opplications (i) Serverless framework A powerful tool that deployment of services and serverless applications across various cloud providers such as AWS, Azvoe and Google Cloud:

(ii) Serverless architecture:

This design model allows developers to brild applications without to the serverless architecture. without worrying about underlying infrastruture enabling focus on vode & brisness logic ("iii) REST AFI & Representational state transfer is arts architecture style for designing network applications Steps Front Charles spite 1) Install Serverless framework 2) creating a Nosci's servertess project 3) to Create a REST API resource 5) Desting the API. 6) Storing data in Dynamo DB 7) Adding more functionatities like to list all, get conditates by IP AWS I AM permissions: you need to ensure serveless francusk is given right permissions to interact: willy AWS resources.

Therefore the maintainans:

Therefore deployment serverless of ramework provides service information were deployed enopoints, AFI key, log streams.

son & Adv. Dayofs ( for 1) sesignment NAME:\_\_\_ Q. 2. Case study for Sonar Qube. Sonarque is an open source platform for testing project quality. Use sonarque to analyze of code.

1) It detects bugs, code smells and security va in project across various programming languages Perofile Oreation in Sonar Orube

Origination in Sonar Orube

Origination that

define rules applied during rode analysis.

Sonar project has a quality perofile for every s

language with default being 'Sonar way' profile 2) Using Sonar Cloud to analyze github code Sonarcloud is counterpart Cloud-based part of Sonar Qube that directly integrates with Github. Si the agures, etc. To get started with source Sonar Cloud via Gtt Github Signup via Sonarcloud personal account. Once connected, sonarcloud mor mis your with both setty with each project with Enoughered to ofthet repository. Automatic analys Inspirens of automatically so in sonarcloud: 3) Sonarlint in Java IDE: Sonarlint to is an IPE that performs for the fly detect lass as you write rode. It helps develop WERLD STAR directly in For Educational Use sevelopment emirronnent soul

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|  |        |
| Intellig, Idea or Eclipse.   |        |
|  |        |
| a) Analysing Putla has t set In make i   |        |
| a) Analyzing bython project with sonarque :  | but    |
| Sonarquire supports python test coverage reporting it regimes 3rd party tool like coverage & | 1 to   |
| in requires a party noon tike noverous of  | )      |
| generate the coverage part.  | 200    |
| To enable coverage adjust your blind process   | 1      |
| that process tool runs before somercamer and   | hatle. |
| ensure ex report file is saved in different y  | 7.77   |
| 5) Analyzing Mode is project with with Sonar an  | ule.   |
| For Mode is project sonargule can analyze two  | rhht   |
| and Is Typescript code Similar to python se  | tuh    |
| you can configure sonarque to enalyze rode;  |        |
| In projects by installing appropriate plugins.   |        |
|  | 6      |
| Implementing 's self service' infrastruture model using                                      |        |
| terraform can transform how large organizations  | manage |
| their infrastratule independently, organizations can   | a      |
| enhance efficiency reduce bottlenecks and en   | sure   |
| enhance efficiency, reduce bottlenecks and en compliance with & established reeds.           |        |
|  |        |
| Benefits of using terraform:   |        |
| ) Modularity & reusalility   |        |
| 2) Standardination   |        |
| ( 3) Increased efficiency  |        |
| ve 4) Integration with tiketing systems  |        |
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