Shuar ari Patil \$15A-88 Sduane Duops Assignment no: 02 1. Quate a REST API with severeles framquord > creating a REST API with sensules framework applications that can stall automatically without managing services. Services framework: A paverfull tool that simplifie deployement of serveries opplications across various douch fromders suit as AWS, Agure ? Giorge cloud. 11. Jeduciles declitablie : This design model allows duelopers to build approactions without moraging slevet undulying enfrastruture, englishing focus on code Ex laurens logic +14 Rest APL Representational gealt beauser accelitational steple for disgning notwork applications. for rending RESTAPI for Serverless fearmework : sistall somewhere framework enstalling serverless framework , globally wing Node package manage nym? This allowed you to manage survele dications denutly for love your terminal. FOR EDUCATIONAL USE

Q. auate a Node is sevulers project. of ducitous is auated for your project, where you indictise a sendender service chergiet Dis seure will host all your lander functions, configurations & doud resources. dising the command sowells anall you set up a lemplate four Aws Node is microservies that well eventually deploy to AWS lambda. 3. Prioxit shoulture: handlengs owhich contains cool for lambder function. ruate a RESTAPI RESOURCE To En the securiles o June fill you define junition that handles Hotel pos Defloy the service: with the 3/3 deploy connands, severeless freamwork packages your applications appeals newary resources to Aws are set up tre entrastimente. 6. Resting the API: looks will and on fortunary by moken Pos 1 requests to generated API: undaram)

To stout submitted so andidate date, you integrate A ws Dyanamo po as a dalabase 8 Adding more funcionalilies let hist all candidates, get condidates by IP. 9. AWS JAM premissions: is given eight permissions to interact ruted thus resources like dyanamo ps 10: noulouing & maintainerie After agragement sowerless framework provides AP 1 key, log sterams: Q.2. Case Study on sonaugule. lesting project quality use sommelouel to analyse your githele well. Install sonaulent in your Java sutellije 10 to see eligist idl. ou eligist idland avalyse your gava coole. python peopet with sonarquelle. melige mid je project with sonouquele: FOR EDUCATIONAL USE

> Solution · create the sonarque profile for lesting perget quality open guledin setting find looks > somarline entery & select to open connection reiganel. · Exten Enter a name for this connection select sonar cloud on sonarquele. choose the authentication nothed. a generate token on towar gull on sonarchoud b. weenand + parouved: evis can be used sonaeque connection conly. Love sommedoud only I select organisation that you want to adment · sonaugule & sonausland can pushi to developers: · ralidate the connection creating by selecting simpling at the end of the fuigated. I clicking ox · Select forancent > Bird project al project to sonow from songule. Trolyse the fergiet Crython fergiet shalyse code > sonar unt FOR EDUCATIONAL USE

Analyse Node is project configured with sonar peroject frequences file or equivalent for the analysis to un. 93 At large organisation your contralised operations roam may get many repetitive infrasterelevel requests aprile can rise terrajours modules to! build a " self- seeme" infrasburchene madel that lets product teams manage their own infrastoruetture independently you can weath and use leveragound modules that codefy the standards for deploying & managing to efficiently sorroy services in compranie cloud an also Sintegreate with lubiling generate new suprastructure requests. moderate infrastrueline 19 odel with lover of seun modules: At a large organisation, emplementation a self seeme infrastruelouse model rising Telephoren care significantly streamline The buscels of managing liquaslocutive across diquent learns This appeach allows periodents learns to manage their over infrastructual independently waill adneuing to laram) FOR EQUCATIONAL USE

organisational standards & lest practises. key aspects of this self-seeme model includes: a. slandandisation through loveafour modules les ouating and retalising loverform modelles but - anali ouganisations dan cody their standards There modules serve as recuracre 9 packages of tourgouin configurations. that b. Spicent deployment, produit learns con liverage thise standardised modules to groken deploy services nutbout needing to reineste tre wheel privait fore the. contralised spendien ham bot handle every request. C Conspiance By roung pudifined modules, teams, ensuel established practises by security guidelines. & . Automation: sue use of termajourn modulas promotes automation reducing manual intervention & folintial human voices in infrastemetime management. FOR EDUCATIONAL USE

e. recesion control: with modelles stouch in version contetol system like git, leans can Eg manufació a history of infrastructure Configurations Integration with ticketing system: Itwaspreyn doud offer integration conducters that further enhance the sext some model. a putomalie Enfraderentime Requests: Automatically generates now infraslecutule requests. This automation stranlines the process of submitting Ey braiking infrastructure changes. to Centralisio Management By contralised infrastructure management through towa four cloud organisation of maintain lettere contitud over noted can suggest & grane infrastructive Ovanges. governme- In integration some texting systems allows for butter governme of inquastructure requests ensuing that all changes go liveough people appearal processes before deployment FOR EDUCATIONAL USE

Collaborative Infrastrutive Management: Trans Based performance premissons. a sensitive information quotiction By implementing trest features & peratices Tough organisations can effetuitly leverage mot supportes noth contralised control Eg description of prom autonomy.