3)	Project Structure:
	The project scaffold creates essential files like handleris
	(which contains code for Lambda function) and
	senverless ymi
4)	Create a REST API RESource:
2 1 3	In serveriless ymi file you define function that handles
	HTTP POST Juquests.
1.1.1	proximate principal contract on principal states of the second
5)	Deploy the service:
1.5	With the SIs deploy command, schuerless framework.
** * 1	packages your applications appoads necessary resources
	to AWS and set up the infrastructure.
	in the second of the frague of the second
6)	Testing the Apri:
	Once deployed you can test REST API using tools like
	Postman by making POST requests to generated API.
	The state of the s
	Staning data in Dyanmans:
	To stone submitted candidate data, you integrate
	AWS By namo DB as a database.
	Marines
<u>&amp;)</u>	Adding more functionalities:
	Adding functionalities like 'List all condidates,
	get condidates by 10'
	and the state of t
	AWS IAM permissions
	You need to ensure that servencess framework is
	given right permissions to interact with Aws
	Jugarces.
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10) Monitaring and Maintenance. After deployment servenless framework provides service information like deployed endpoints API key ; log Streams 92. Case study for Sonarqube Creating your own profile in Sanarqube for testing project quality. Use sonarchoud to analyze your Crithub code Install Sonarlint in your Java Intelly and analyze Java code. Analyze python project with Sonarqube. Analyze node is project with sonarqube 1. Prafile creation in SonarQube: Quality profiles in sonar Qube are essential configuration that define rules applied during code analysis. Each · braject pas a drayith bratile too enemy subboated language with default being sonar qube profile comes · built-in for all languages. Custam profiles can be created by copying or extending existing ones. Copying creates an independent profile while extending inhexits rules from parent profile and reflects future changes indepent automatically. You can activate ar deactivate rules prioritize certain rules and configure panameters to tailor profile to specific projects. permissions to manage quality profile are also be imported from other instances via back up and sustane To ensure profiles include new succes its important to duck-against updated built in prafike or use SonarQube rules page. FOR EDUCATIONAL USE **Sundaram** 

Using Sonar Cloud to analyze Orithub code: Sonarcloud is cloud based counterpart of Sonarqube that integrates already with aithub. Bit bucket, Azure and Guitlab suppositories. To get started with Sonarcioud via ouithab signup via Sonarcioud product page and connect your Github organization or personal account. Once connected sonarcloud mirrors your crithub setup with each project corresponding to gittub respository. After setting up the organisation choose subscription plan (free for public seeps blext import sespositerres into your somurcloud organization where each Github seepo becomes a sonarcional project poting , ven code, to toon ou recent changes and choose between automoutic analysis or a-based analysis. Automatic analysis happens directly in Sonar Cloud, while ci-based analysis integrates with your build process once analysis is complete results can be viewed in both sonar-cloud and withub-including security impart issue. i'v more atting atting to all make a complete as SonauLint in Java IDF: Sonarlint is an int that performs on the fly code analysis as you write code. It helps developers detect bugs, security vulnerabilities and code smells directly in the development environment such as Intelly Idea on Eclipse To set it up, install the Sonar Lint plugin, configure the connection with · SanasiQube or Sonardoud and select the project profile to analyze Java Cole

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At a large organisation, your centralized operations team may get many supetitive suguests, you can use terraform to build a "self-serve" infrastructure model that lets product teams manage their own infrastructure independently. You can use terraform to build a modules that codify the standards for deploying and managing sexuices in your organization allowing teams teams to officiently deploy sources in compilance with your organizations practices Terraform Cloud can also integrate with ticketing system like service now to automatically generate new infragtaucture requests In a large organization, contralized operations teams handle infrastructure provisioning for different departments or teams However as the demand for infrastructure increases, manually fulfilling these suguests becomes inefficient. Terraform helps solve this problem by enabling a "self-serve" infrastructure model where teams can manage their own infrastructure The Self-Senue Infrastructure Moidel: Standardization with Texnaform Modules: Create Terraform modules that enrapsulate best practices for provisioning infrastructure like ECZ instances, databases, upc's or networking: configurations. these modules can be shared with different teams ensuring that they follow a common set of standards such as security policies, tagging and susoures FOR EDUCATIONAL USE Gundaram

	3
	management
	2.
2,	Seif seuve infrastructuse: Product teams can use thuse modules to create their
	infrastructure independently. The operations team only
	needs to define the modules and product teams can
	deploy the seesaurces as needed.
	This allows for greater agility, as teams do not have
	to wait for manual approval or intervention from
	central operations team.
	Use of Texa form Cloud:
- >11	Terraform cloud allows for state management,
	policy enforcement and collaboration across teams.
	Using terraform cloud; teams can cutomate the
	deployment process and penform infrastructure
	updates.
н.	Integration with Ticketing Systems.
•	Terraform cloud can be integrated with systems
	like Sexvice Maw, automating the process of
	generating new infrastructure requests.
	the contract of the solutions to the contract of the contract
L . ,	Benefits of self series infrastructure model:
	Agility
10	Steindardization
3.	Resource afficiency
Α.	Automation.
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