CLOUD6212 POE ST10090370

KIDUS YARED MEKONNEN

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PART A

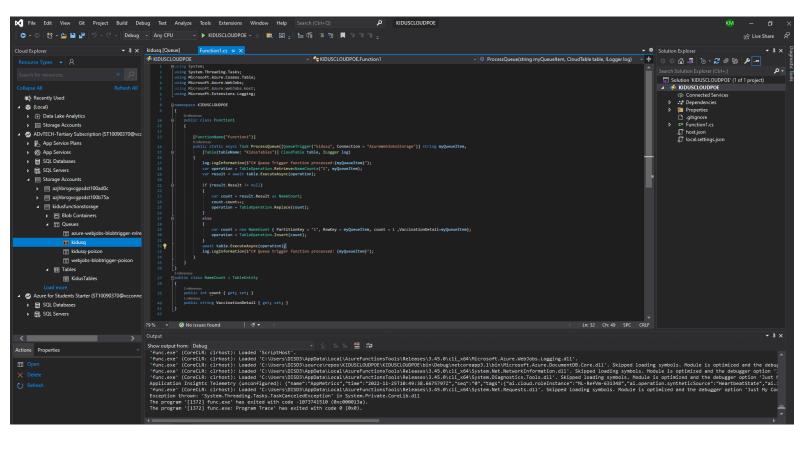
COMPONET	TECHNOLOGY	HOSTING MODEL
VM Scale Set: It provides the ability to configure and create a large number of similarly configured virtual machines in minutes.	Compute	IAAS- This allows you provision individual VMs along with the associated networking networking and storage components. Then you deploy whatever software and applications you want onto those VMs.
Azure App Service- This service provides various web application, Rest API, or mobile backend services. This service manages applications using Azure features such as scalability and security	Compute	PAAS- this gives a managed hosting environment, where you can deploy your application without needing to manage VMs or networking resources. Azure app Service and Azure Container apps are Paas services.
Blob Storage- It can be used to store unstructured data such as images, raw data, or semistructured data such as XML or CSV files. Files are stored in directory-like structures called containers	Data Storage	IAAS- This allows you provision individual VMs along with the associated networking networking and storage components. Then you deploy whatever software and applications you want onto those VMs.
Azure Tables – It stores data in the form of tables. These tables are NoSQL tables	Data Storage	IAAS- This allows you provision individual VMs along with the associated networking networking and storage components. Then you deploy whatever software and applications you want onto those VMs.
Azure Active Directory- It stores data in the form of tables. These tables are NoSQL tables.	Compute	PAAS- this gives a managed hosting environment, where you can deploy your application without needing to manage VMs or networking resources. Azure app Service and Azure Container apps are Paas services.
Azure Key Vault: This is a hosted cloud management service used to encrypt and securely store keys, connection strings, passwords, or other secrets.	Compute	IAAS- This allows you provision individual VMs along with the associated networking networking and storage components. Then you deploy whatever software and

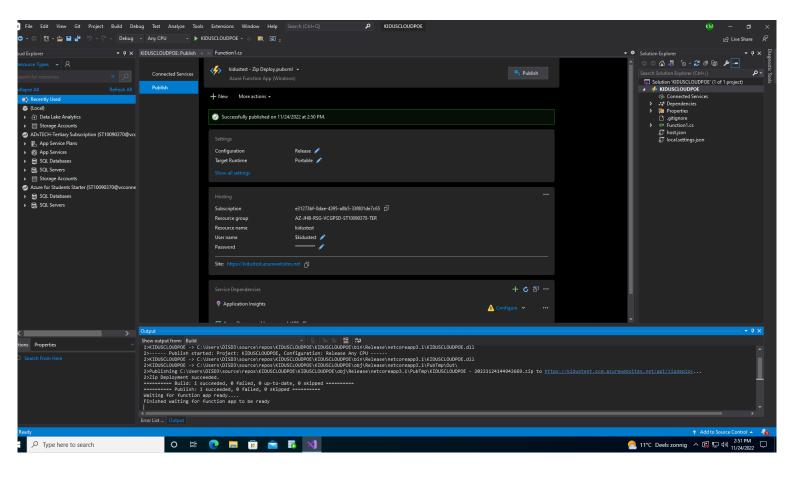
		applications you want onto those VMs.
Metrics – These are numbers used to analyze your application and can represent the performance of your application at any point in time based on its current state.	Compute	PAAS- this gives a managed hosting environment, where you can deploy your application without needing to manage VMs or networking resources. Azure app Service and Azure Container apps are Paas services.
Logs- These are basically records that contain the events that have occurred and the data that was generated during the events	Compute	PAAS- this gives a managed hosting environment, where you can deploy your application without needing to manage VMs or networking resources. Azure app Service and Azure Container apps are Paas services.

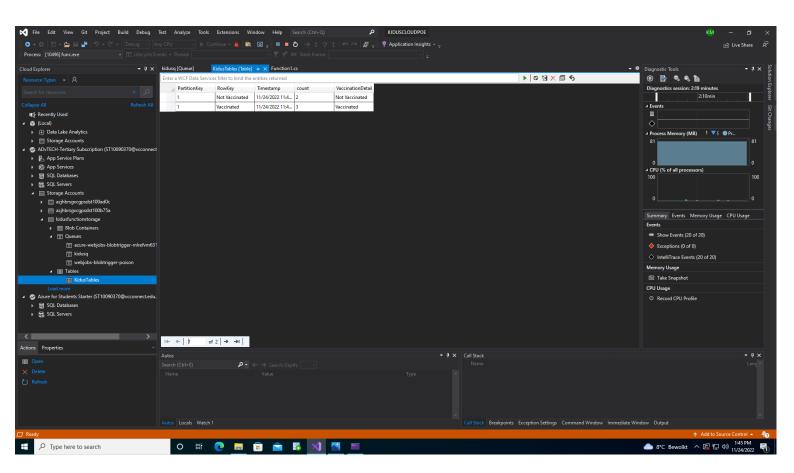
PARTB

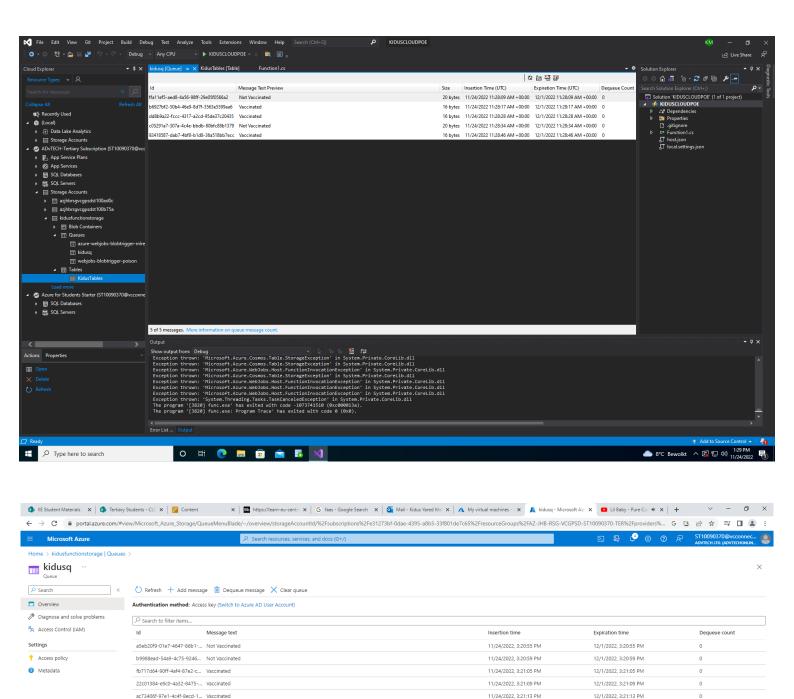
At the beginning of POE, we used queues. Its purpose was to enqueue messages and forward them within the application. A process can interact with the queue, retrieve messages, and perform any desired operations. Now I have a NoSQL component called Azure Tables that stores data in the form of tables. Submitted queues are now stored in an Azure table. These tables are very easy to create and can be accessed in code using the provided URL. Store data in key-value format in the backend. Benefits of using this NoSQL feature of this include a flexible data model that allows you to easily change your database as your needs change. NoSQL is faster when it comes to queries compared to SQL. Another advantage is the fact that it's easier for developers to use and it is much cheaper. (MongoDB, n.d.).

PART C

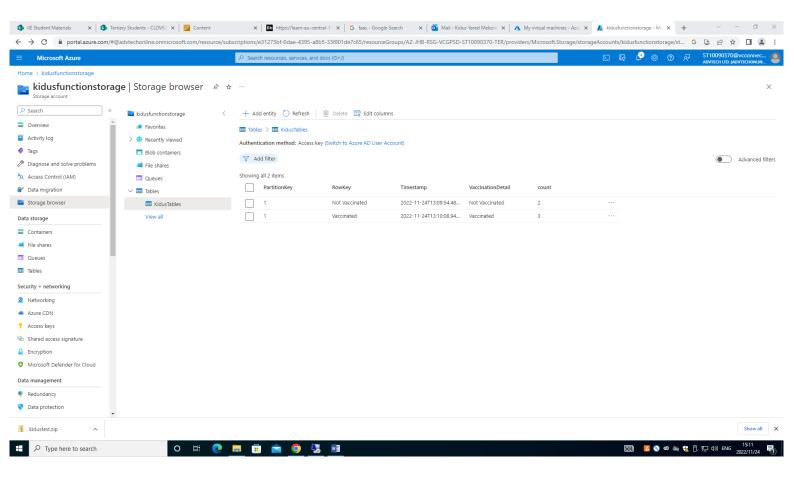




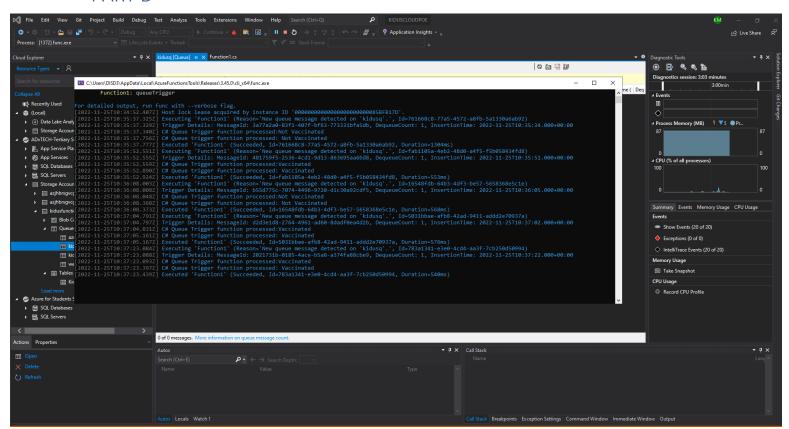








PART D



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