Azure Functions

\*) if you are going to deploy web application as a appservice

\*) web application upon request it going to execute on server and produce output

\*) every web application can only do this

\*) on client side we writing the code means we increase the latency of the execution of output then response will slower to the browser

How can we overcome this problem?

\*) whatever the extra code does not impact output render to the browser that we will execute as a background process like example

: - that background job earlier developed as a web Job

Now it is developed as a a azure functions

\*) unlike a webapp in appservice which has got some user interface output generator in the browser

\*) a function is going to execute a piece of in background which may not have direct interface

\*) advantage of azure functions we can write in any type of languages like c#, nodejs,python,java,shellscsript any bash executable languages

\*) azure functions is generally like a normal function write in a class

\*) series of steps and series lines can be executed but how would be function invoke

\*) basically function should be invoked on Triggers

\*) Azure function in azure is server less compute service that it may not resources permanently

\*) on demand the server basically implies RAM and CPU processor provides function the demand it may be server less and server based

\*) azure server runs the scripts and piece of code response to variety of events

\*) that is a message can be posted into the queue into the storage account azure it will invoke the function

\*) like same Blob is uploaded into storage account it will trigger the azure function

\*) twillio a message service

\*) HTTP trigger is provide us a URL with that we can invoking azure function on server

\*) i can post that http request to that URL Azure function will executes

\*) we an manage the execution of azure functions at a particular date and time

\*) the execution of code means there is need of special INFRA which you have defined by you based on the tier pricing tiers

Steps to create a function App:-

====================================

1) When you create a function you need to create a function app

2) In that we are going to create a azure function

3) webapp using the infrastructure of app service

4) Appservice is common between webapp and function and also used webapi,logicApp,Azure function which are managed by Microsoft

5) These four are paas services

6) While writing a Azure function we can build it as a code and containerized or dockerized it

8) We can select a runtime stack as in java,python.c#,php,nodeJS

9) azure function does not acquire any memory and processor unless it needs configure for consumption pricing tier

10) You can create storage account

11) You can choose operating system

12) You can choose plan type consumption, premium, App Service Plan

13) Tags

When we are building a function in the function app making that function native to the azure app

Same feature in aws is lambda functions

Premium plan :

==============

I want to connect from special vnet and invoked from that special virtual machine not at all accessible from outside

One of the major drawback of consumption plan is

When there is no load the function will get unloaded

When the request suddenly comes back there will be delayed the warm up time to response

First request will be always delaying after the function got zero instance

The problem never in premium plan

Internally Azure load Balancer takes 230 seconds is the maximum amount of time the HTTP triggers function can take to respond to a request

Default idle timeout of azure load balancer is 230 seconds

After 230 load balancer says the response will not delivered to the client

If we want to setup the time function in azure functions

Just we set time in

1) Go to function app

2) Function app settings

3) Edit time in host. JSon

4) Default is 5, maximum is 10 minutes

Once the pricing tier of function app is created we cannot changed after

Web jobs are no more recommended for solution which is supposed to execute in back ground without any direct user interaction of user interface