**CST8912 – Cloud Solution Architecture**

**Graded Lab Activity #10**

**Purpose of this lab:**

Task 1: how you can alert users based on the data present/updated in your SQL Database.

Task 2: how to alert users when file gets uploaded/deleted in blob storage

Task3 : Monitoring workflows in azure monitor

Task 4: Clean resources and record all the steps with screenshots in the lab report.

Problem statement: I have a storage account in Azure . In the container we are storing various data files . The files are stored in tree hierarchy of folders ( Parent-> year -> month -> day).Each day new files get uploaded to the specific day folder . If the file for that specific day is not uploaded I would like to drop email notification

Task 1:

1. Create logic app (choose consumption based plan) and sql database instance in Canada central region

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1. Create alerts table in sql database using query editor

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1. Insert records into the Alerts table using the query

Insert into [dbo].[Alerts] (ToAddress,MailSubject,MailBody,EmailSent)

values ('youremail','demoApp1','This is message body1',0)

go

Insert into [dbo].[Alerts] (ToAddress,MailSubject,MailBody,EmailSent)

values ('youremail','demoApp2','This is message body2',0)

go

Insert into [dbo].[Alerts] (ToAddress,MailSubject,MailBody,EmailSent)

values ('youremail','demoApp3','This is message body3',0)

go

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1. Select rows from db.Alerts table to verify the records inserted in the table.

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1. Go to logic app created in lab
2. Use recurrence trigger and define values for interval (3) and frequency (minute)

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1. Add new step named “sql server” , use “get rows” as action.

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1. Enter the credentials (In background, connectors are getting created). Enter your server name (FQDN), database name, username and password.

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1. Add a new step ‘For-Each’ in the Logic App.

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1. Select ‘Value’ Parameter from Dynamic Content
2. Now add a ‘Send mail’ Action.
3. Enter the details from Dynamic content (refer to values from columns defined in the alerts table)

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1. Save the Logic App.
2. Wait for sometime and you will receive an email.

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Task 2: Design a logic to trigger an email notification in your outlook when the file to a specific folder does not gets uploaded by specific time.

1. Create a storage account in Canada central region

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1. Create a sample container and within that container create folder in format of “yyyy-mm-dd”
2. Create a trigger to schedule this logic everyday at 6pm

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1. Use list blob to check every file in folder to check the file in the folder, you can use the expression like concat('/',utcNow('yyyy/MM/dd')), if the file in the path does not exists, list blob will fail.

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1. Send an email to your email address in outlook if list blob fails.

Task 3: Monitor workflows in azure logic apps

Task4: Clean all the resources created during this lab and record all the steps with screenshots in the lab report.

