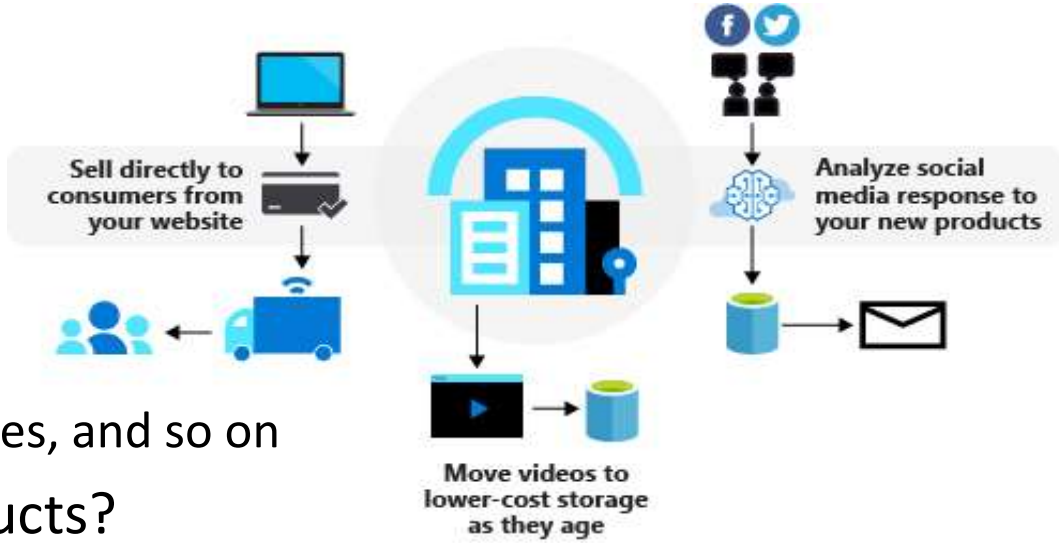
Azure Logic Apps

Examples

Send email notification	• When something happens in your system, app or services
Move Files	• To Azure storage from SFTP or FTP servers
Monitor the tweets	• Perform sentiment analysis on them • Create alert for the tweet which needs to be reviewed
Change the logic in app	• Just with some toggles of the switch • No deployment of your entire codebase needed

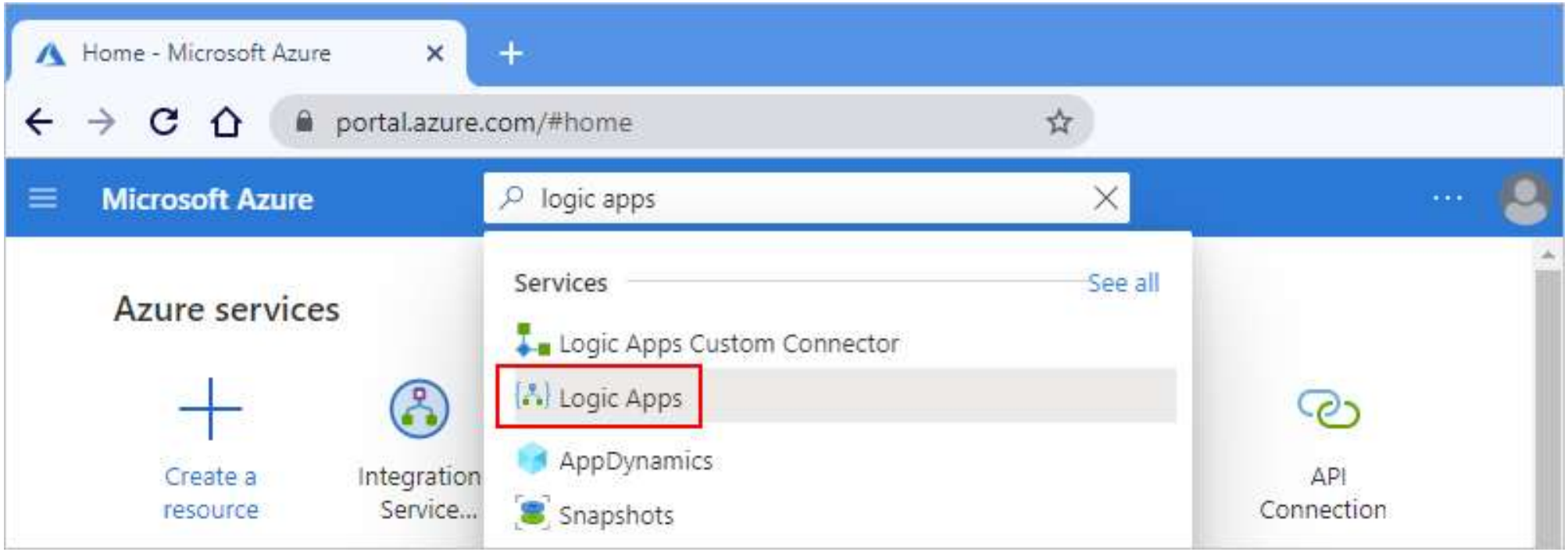
Azure Logic Apps

- Implementing a business process can be challenging because we need to make diverse services work together
- Think about everything your company uses to store and process data:
  - Salesforce
  - Microsoft 365
  - Oracle
  - Twitter
  - YouTube
  - Dropbox
  - Google services, Azure Cognitive Services, and so on



- How do you integrate all these products?
- Azure Logic Apps gives you pre-built components to connect to hundreds of services

Create your logic app

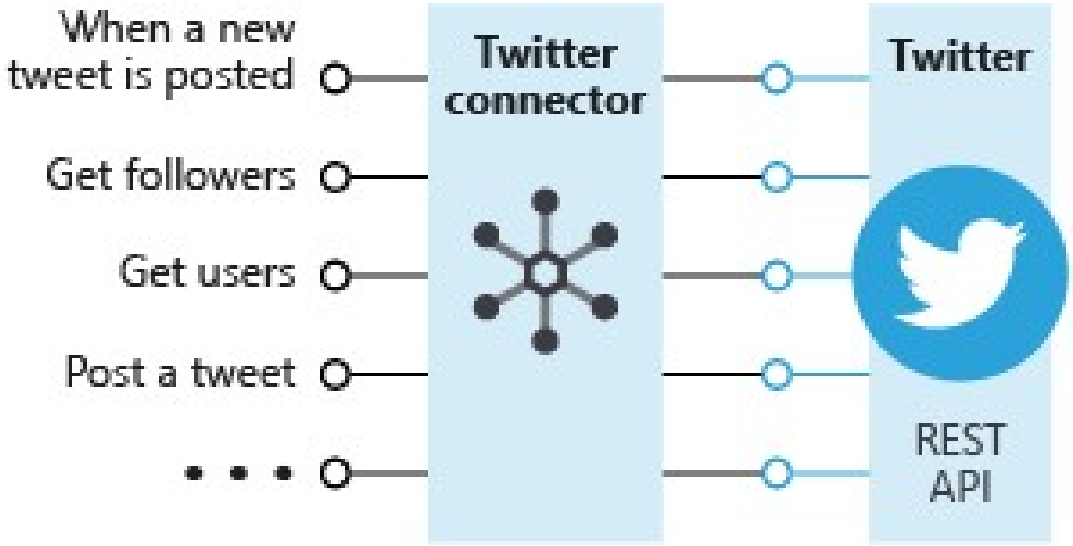


- Under Templates, select Blank Logic App.

Hands-On: Create a simple Logic App

Connectors for Azure Logic Apps

A Component	• Provides an interface to an external service
Example	• Twitter connector allows you to send and retrieve tweets
Provides	• Hundreds of pre-built connectors



What are triggers and actions?

A trigger is an event

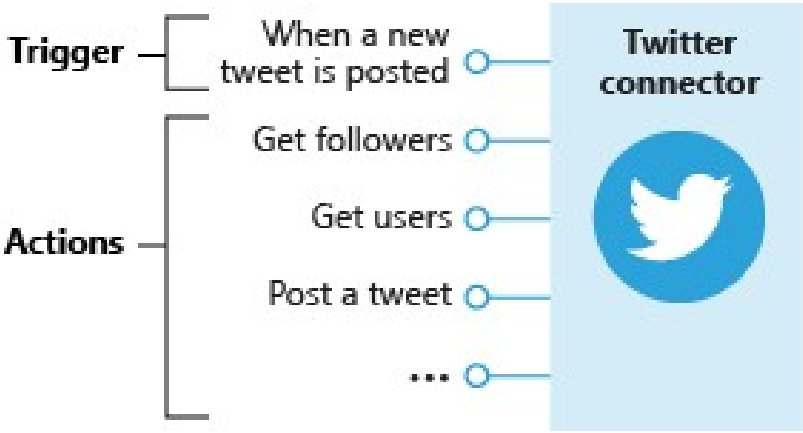
- Occurs when a specific set of conditions is satisfied
- For example, when a timer expires or data becomes available.

An action is an operation

- That executes a task in business process
- Run when a trigger activates or another action completes

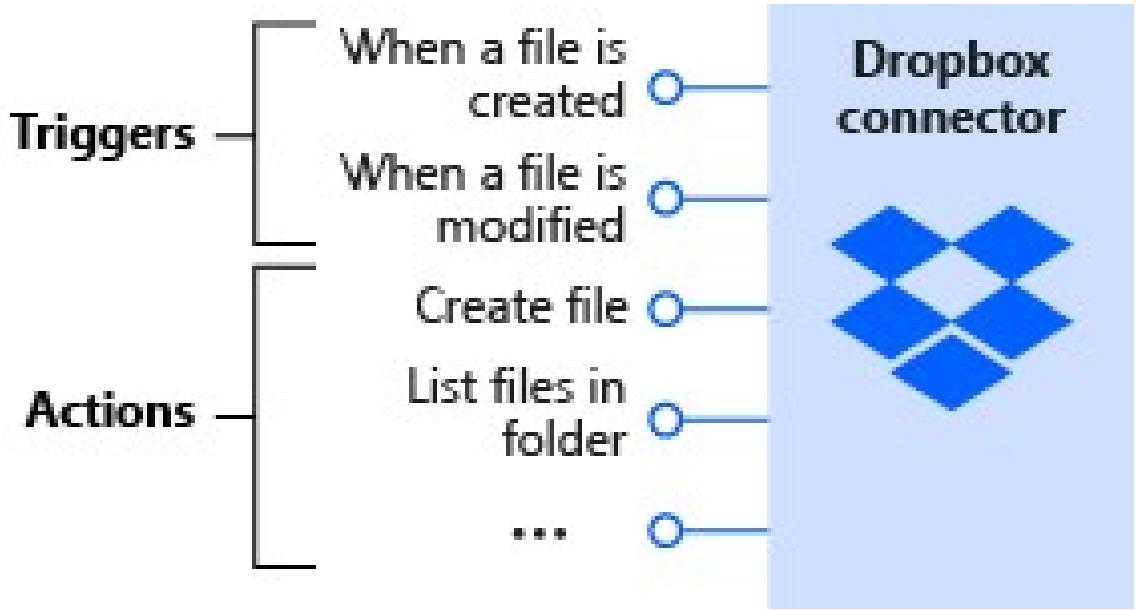
A connector is

- Container for related triggers & actions



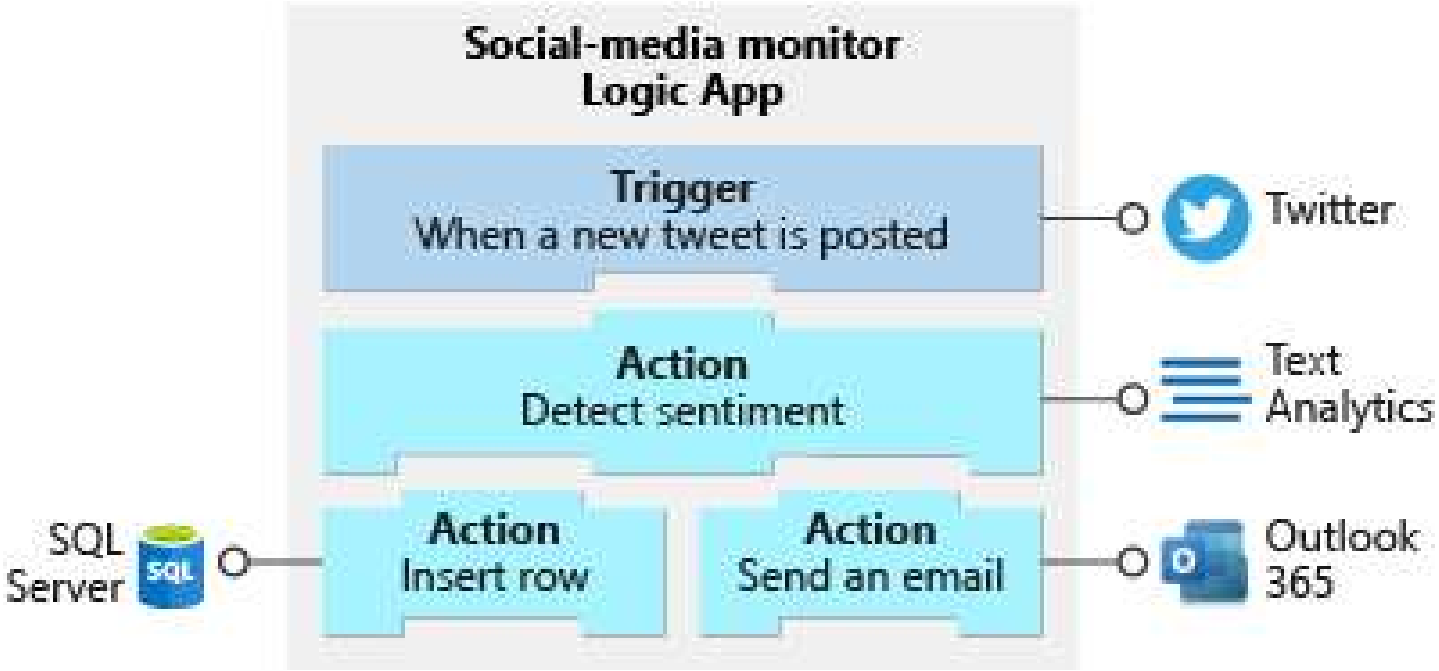
Dropbox Example

- Suppose you were working with a small team on a project that stored its shared data in Dropbox
- You could build a workflow that detects when someone modifies any of your files and sends a notification to the other team members.



How to build Logic Apps from triggers and actions?

- You build a logic app from triggers and actions
- An app must begin with a trigger
- After the trigger, include as many actions as needed to implement workflow

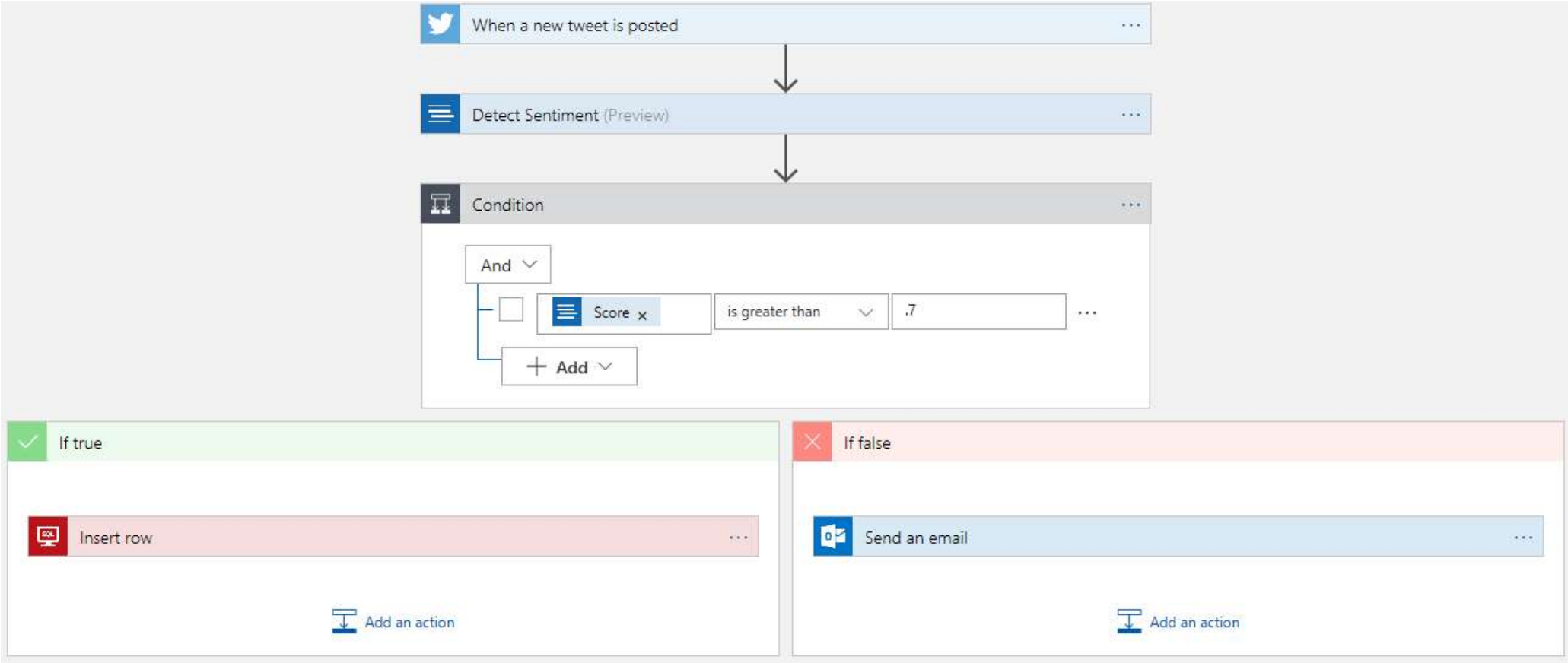


What is the Logic Apps Designer?

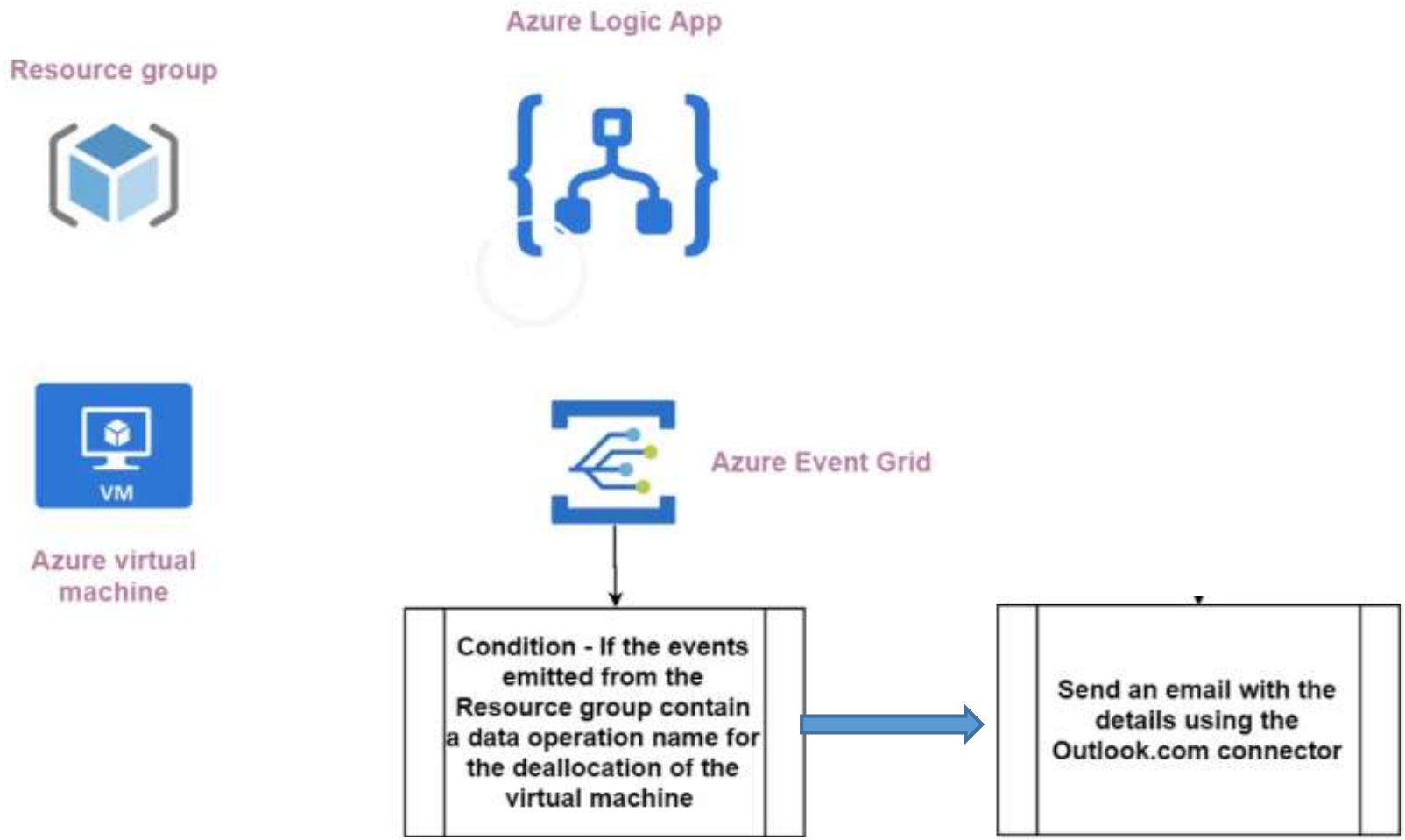
A graphical tool	• For creating workflows
Gives a design canvas	• That you use to add a trigger and actions to app

For example	• The social-media monitor app uses the:
	  • Trigger: When a new tweet is posted
	  • Condition: To branch and
	  • Actions: Detect sentiment, Insert row, and Send an email

What is the Logic Apps Designer?



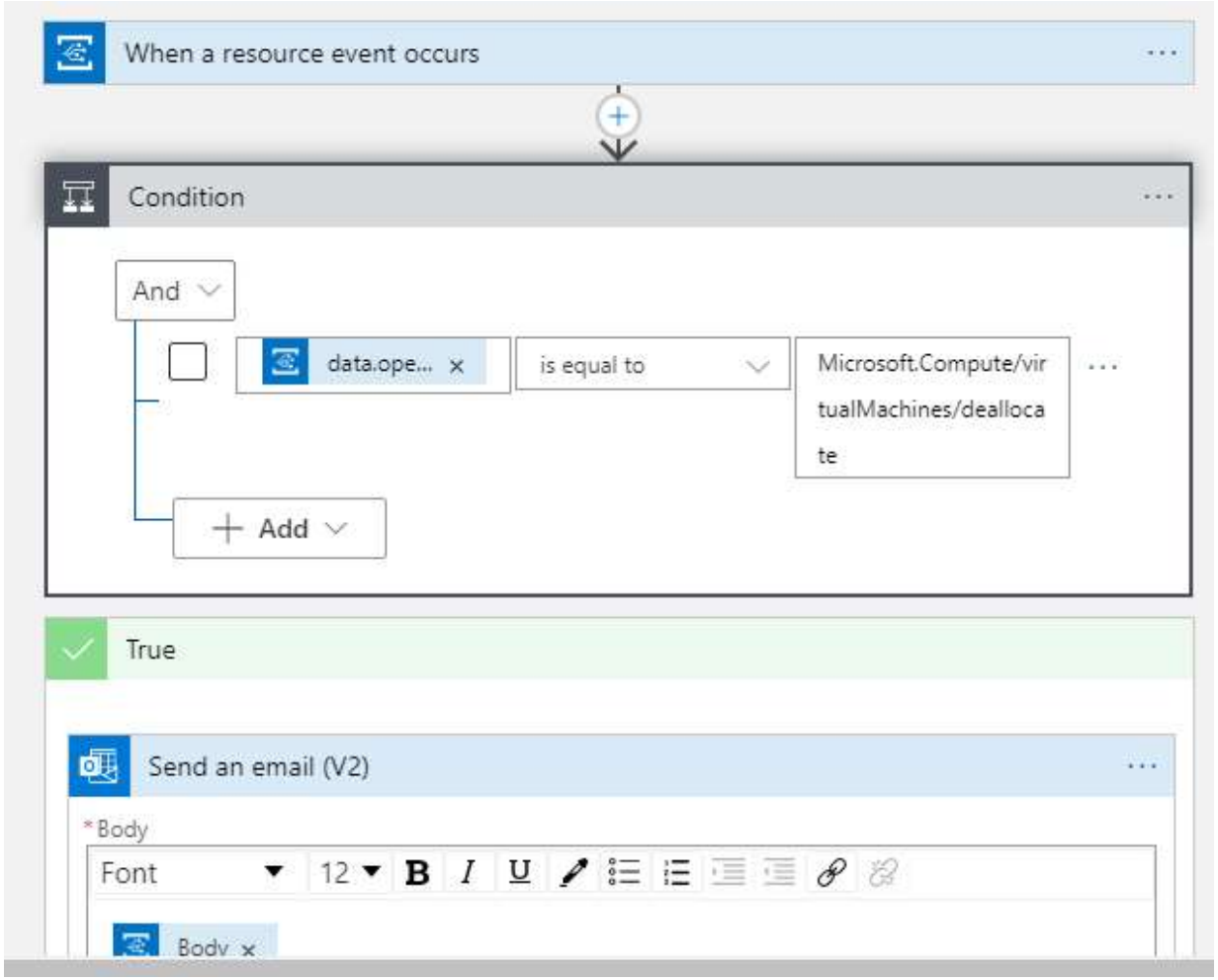
Azure Logic Apps - With Event Grid



Azure Logic Apps - With Event Grid

- Steps - Refer: logapp-eventgrid
  - Create a blank logic app
  - Trigger -> Azure Event Grid
    - Chose Subscription
    - Resource Type -> Microsoft.Resources.ResourceGroups
    - Specify Resource Name of which the events are be to be listened to
    - Chose event -> ResourceActionSuccess, ResourceWriteSuccess
  - Add action
    - Add condition control
    - Add expression
      - triggerBody()?['data']['operationName']
      - Contains -> Microsoft.Compute/virtualMachines/deallocate
    - If True add action
      - Outlook.com or Office365
      - Send an email

Azure Logic Apps - With Event Grid

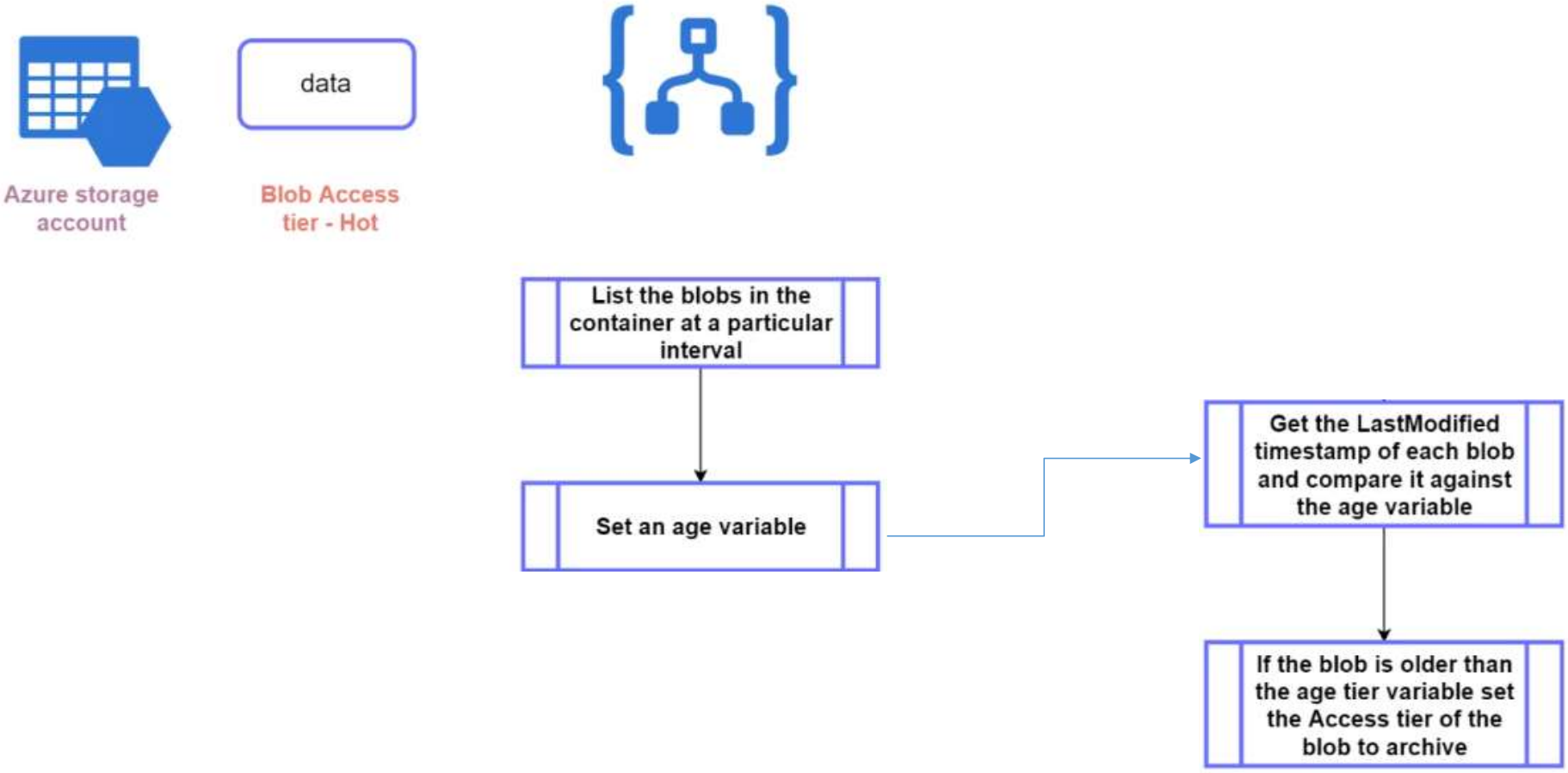


Azure Logic Apps - Azure Functions

- Create a new HTTP Trigger Function
  - Refer Code: azure-logic-app-function-code.txt
  - Refer Function App in Azure Portal: functionapp-azure-vm-notify
  - Update the code of the function

- Add new action in Azure Logic App to call the function

Azure Logic Apps - Azure Blob Storage



Azure Logic Apps - Azure Blob Storage

- Create a new Logic App
  - Refer: logicAppBlobArchive
  - Use the template - "Auto Tier Azure blobs based on the last modified time."
  - Connect to azure storage
- Add a new file to Storage Account
- Update Logic App
  - add recurrence step
    - 1 minute
  - Set tier age variable
    - Set to 0
  - Update List Blobs step and specify the container
  - Update New Tier - Cool of the blob is condition is true
- Add new files to Storage account and verify that logic app is working

Azure Logic Apps - Debugging

- If your Logic App is not working for some reason, you can use the following Debugging procedure
  - Go to the Run history in the Overview of the Azure Logic App instance. This is at the bottom of the page.
  - Click on any Failed run
  - You will then see the details of the run. You can also see the step which failed in the Run
  - If you just expand the failing step, you will see the actual error for that step


thanks