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Sentiment Analysis using Azure Logic Apps



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About Me



**Microsoft Certified
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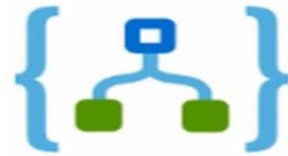
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AGENDA

1. Overview of Azure Logic Apps
2. Demo 1 – Quick Tour of Azure Logic Apps
3. Overview of Azure Cognitive Services
3. Demo 2 – Sentiment analysis using above Azure Service



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1. Overview of Azure Logic Apps



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What is Azure Logic Apps?

It is a cloud-based platform for creating and running automated workflows that integrate your apps, data, services, and systems.
Few example:

- Schedule and send email notifications
- Move uploaded files from an SFTP or FTP server to Azure Storage
- Monitor tweets, analyze the sentiment, and create alerts or tasks for that tweets

<https://docs.microsoft.com/en-us/azure/logic-apps/quickstart-create-first-logic-app-workflow>





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Why use Azure Logic Apps?

- It provides a cloud based serverless engine (It fully managed by Microsoft which frees you from worrying about hosting, Scaling, Managing, Monitoring, and Maintaining solution)
- Pay for what it has used for
- No code or Low code Solution
- 200+ connectors for expansion
- Create your Custom connectors





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Why use Azure Logic Apps?

- Monitoring and Logging out of the box
- Seamless integration with other Azure Services (Azure Function, ADF...)
- Provides scalability & security





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How does it work?

Trigger

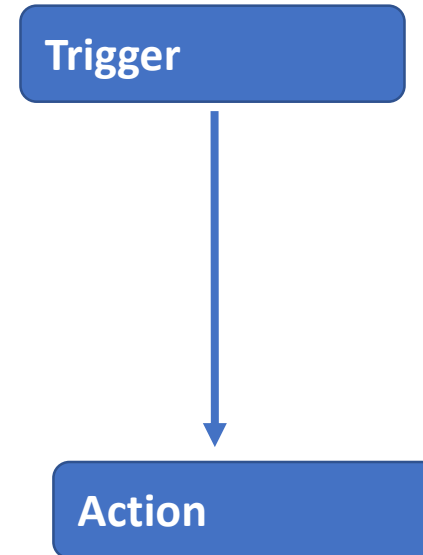
Specifies the condition for running any further steps in that workflow.

For example :

Trigger an event when detecting a new file in a storage account.

Action

Every action runs some operation in a workflow.





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Tools to create and deploy Azure Logic Apps

Logic Apps Designer Tools:

- Azure Portal
- Visual studio
- Visual Studio Code

Deployment Tools :

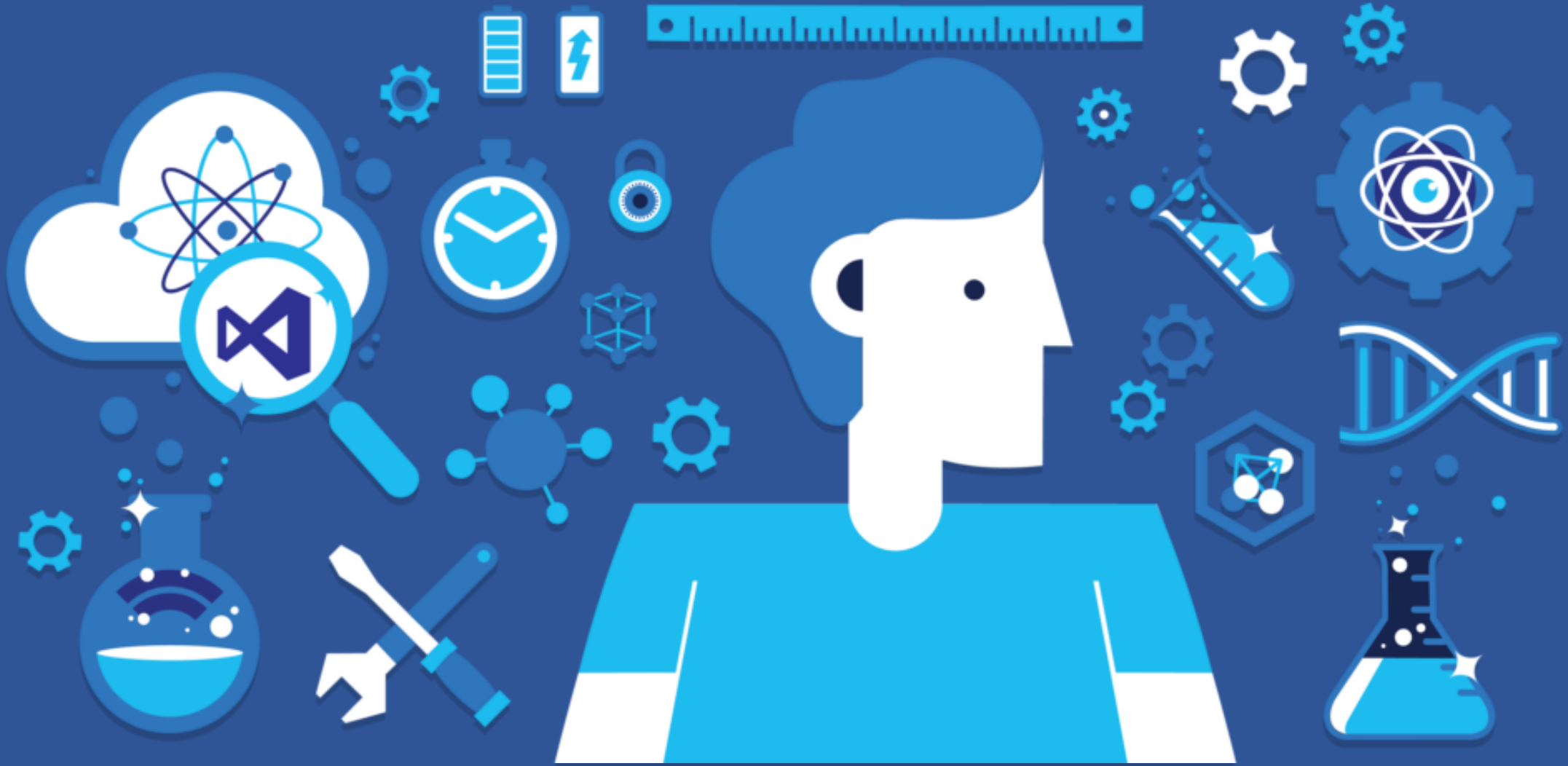
- Azure Portal
- Visual studio
- Azure Resource Manager template (ARM template)
- Azure command-line interface(Azure CLI) or PowerShell





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Demo - Quick Tour of Azure Logic Apps





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Azure Cognitive Services Text Analytics

3. Overview of Azure Cognitive Service



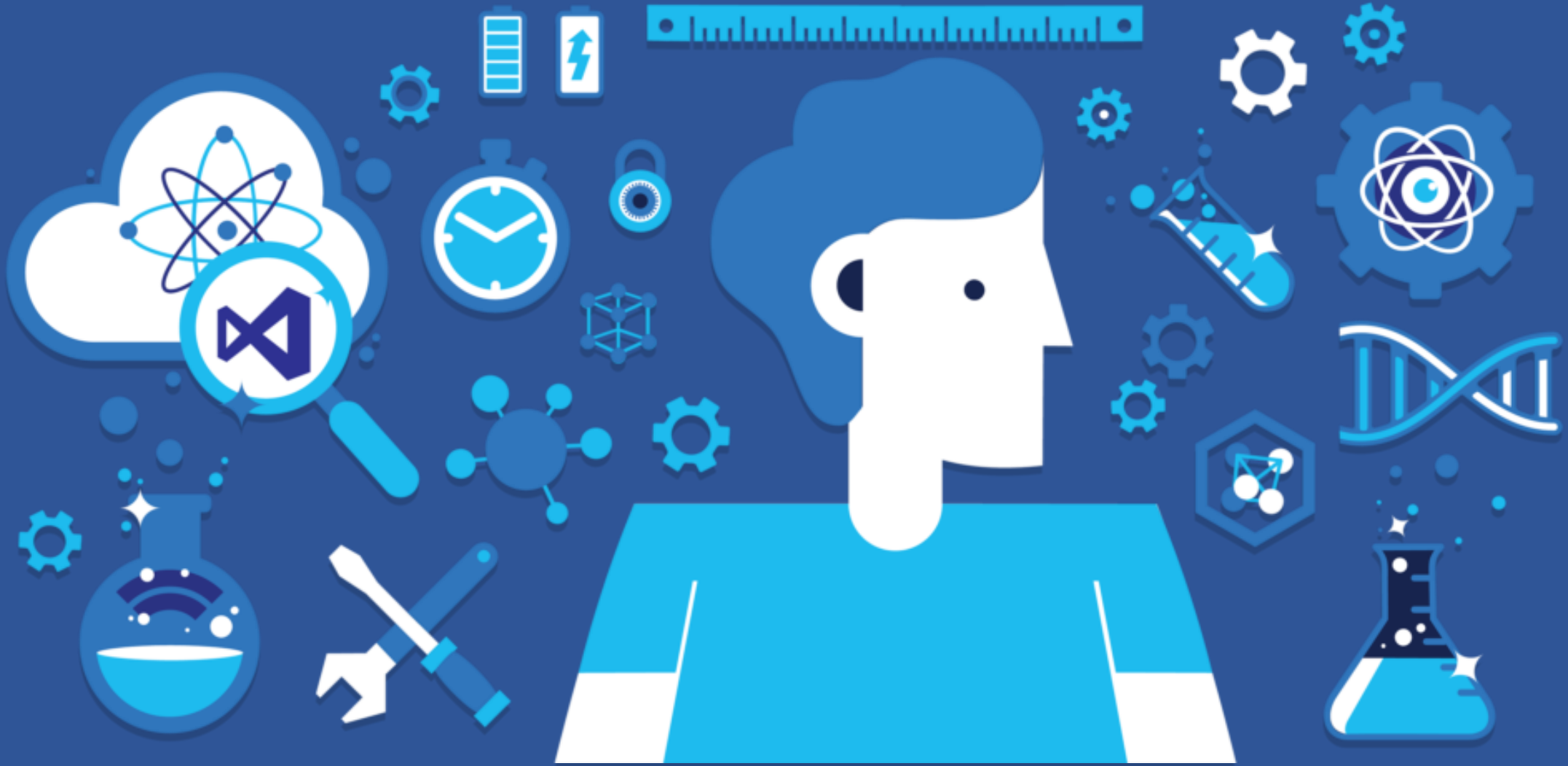
Sentiment Analysis

- Azure Cognitive Service for Language
- Text Analytics (Text, Documents)
- Extract, Classify and Understand text within documents
- Sentiment labels (such as "negative", "neutral" and "positive")
- NLP - Natural Language processing technique
- No code or Low code
- Create an Azure Language resource
- The REST API or the client library for C#, Java, JavaScript, and Python



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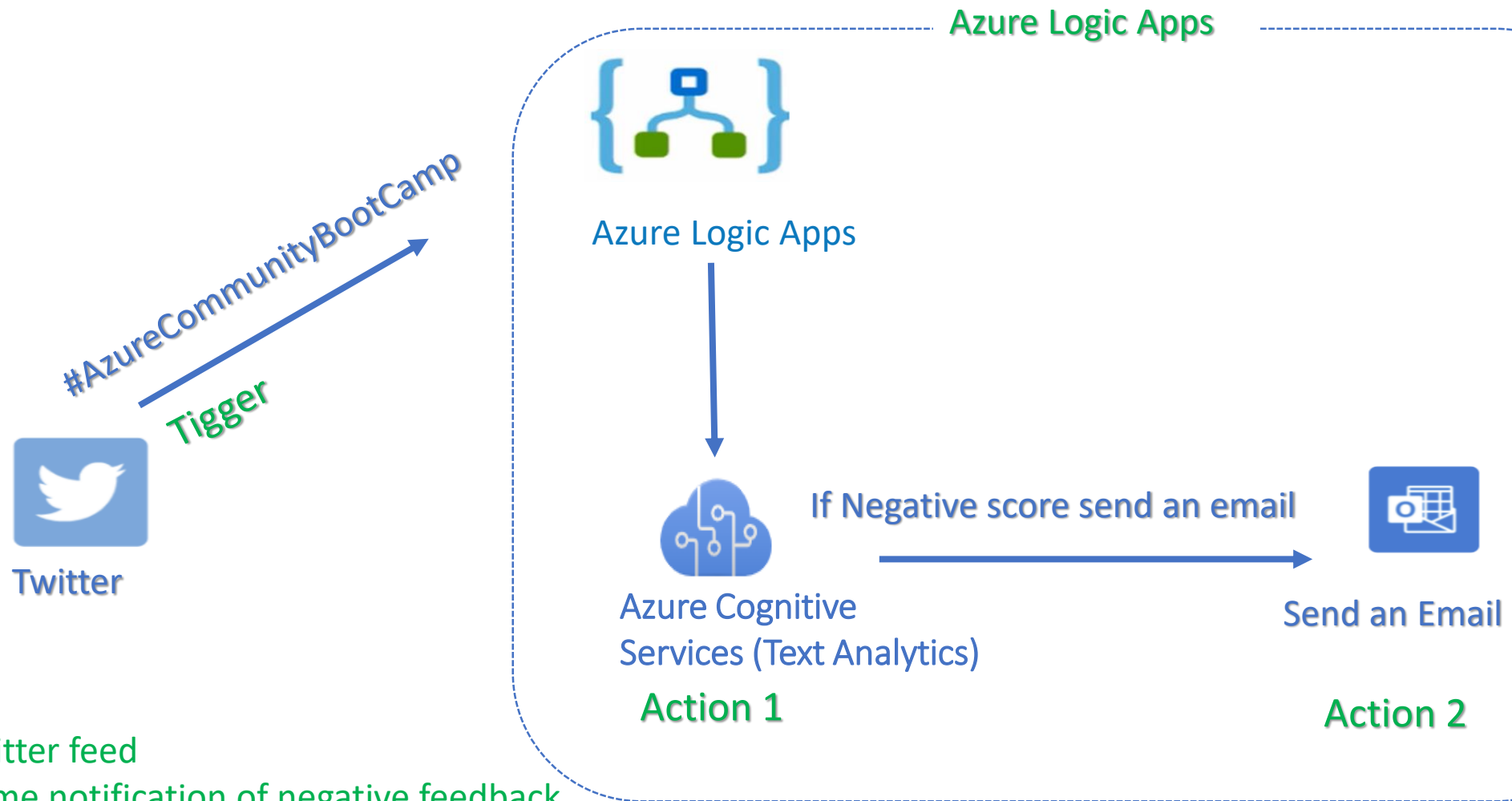
Demo 2 - Sentiment analysis





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High level Design



- Monitor Twitter feed
- Near real-time notification of negative feedback
- Notification via Text message or Email or store to Storage



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Key Takeaways

Azure Logic Apps:

- Azure Logic Apps is Azure Integration Service
- Drag and Drop interface (Automatically .Json code creation)
- Automate and Orchestrate workflow
- Easily to deploy Azure Logic Apps
- It trigger based on event or time

Azure Cognitive Service:

- It summarized big documents and provide sentiments
- A wide range of languages
- Understand common topics and trends
- A Gain deeper understanding about your customer sentiments



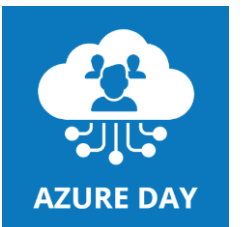
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