



# Cloud Computing: A Detailed Study of Azure Logic Apps & Its Cognitive Service

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**Abstract:** Cloud Computing is getting increasingly popular daily due to its tremendous advantages. this technology is maturing rapidly and is being adopted in many applications including business, education, and government sector. It has been found that Cloud Computing could be a model for enabling ubiquitous, convenient, on-demand network access the computing resources. There are many services and features of cloud computing. This paper focuses on the importance of logic Apps in azure cloud computing.

Azure Logic Apps supports workflows that connect apps, data, services, and systems across cloud, on-premises, and hybrid environments. The Logic Apps service is serverless, so no one must worry about scale or instances. Define the workflow with a trigger and also the actions that the workflow performs. The underlying platform handles scale, availability, and performance. Logic Apps is particularly useful to be used in cases and scenarios where you would like to coordinate actions across multiple systems and services

Keywords: cloud computing, logic apps, triggers, connectors, features, workflow.

## I. INTRODUCTION

### What is Azure Logic Apps?

Azure Logic Apps may be a cloud service that automates the execution of your business processes. You utilize a graphical design tool called the Logic Apps Designer to rearrange pre-made components into the sequence you wish. The designer sends a definition of your workflow to the Logic Apps execution engine. The execution engine launches your app when conditions are right and manages the computing resources needed to run it.

#### WHEN TO USE LOGIC APPS:

We'll list some criteria that indicate whether Logic Apps will meet your performance and functional goals.

#### 1.1 Logic App Criteria:

Factor	Description
<b>Integration</b>	Logic Apps work efficiently when we need to get multiple applications and systems to work together. That's reason they were designed. If you are building an app with no external connections, Logic Apps is probably not the best option.
<b>Performance</b>	The Logic Apps execution engine scales your apps automatically. Logic Apps can process large data-sets in parallel to achieve high throughput.
<b>Conditionals</b>	Logic Apps provides control constructs like Boolean expressions, switch statements, and loops so your apps can make decisions based on your data. You can build highly complex and deeply nested conditionals into your Logic Apps.
<b>Connectors</b>	The last consideration is to check whether there are pre-built connectors for all the services you need to access. If so, then you can access it. If not, then you need to create a custom connector. If the service has an existing REST or SOAP API, you can make the custom connector in a few hours without writing any code. If not, then you'll need to create the API first before making the connector.

## 1.2 Logic apps Components:

### Connectors

Connectors in Azure Logic Apps are utilized to play out specific activities. These connectors are intended to interface and work with client data. There are various connectors accessible for Azure Logic Apps including Enterprise connectors. These connectors act either as actions or as triggers.

### Actions

Clients can choose the mandatory action from the broad arrangement of activities. Actions are the means by which those run once started by the trigger. Actions are measures that are able to do the assigned business task obsessed on the information given by the client.

### Triggers

Triggers invoke the Azure Logic App work process which will fire when new data or an occasion that meets the trigger condition occurs. Connectors in Logic Apps have numerous triggers. A logic app may also have multiple triggers accommodated as a logic app workflow. These triggers are of two types. i.e, Built-in triggers and managed API triggers.

## 3. Advantages of Azure Logic Apps

- Easy to characterize the workflow –Programmer can undoubtedly characterize the workflow with triggers and actions using Connectors with client-intuitive GUI.
- Support for Enterprise applications – Logic Apps support coordination with Share point, Office 365, Twitter, Dropbox, etc.
- Easy debugging – The user can undoubtedly troubleshoot the Logic App utilizing Trigger and Run history.
- Automation of workflow – By characterizing the workflow with triggers, it'll consequently fire the Logic App when the trigger condition is succeeded.
- Integration with on-premise arrangements – It's likewise conceivable to coordinate the Logic App with on-premise arrangements like BizTalk worker, SAP, and more.

### 3.1. HYPOTHESIS:

1. H0 States that Logic Apps in the current Enterprise applications sector are not making such a difference for programmers.
2. H1 States that Cloud Computing in Enterprise applications can empower systems and give effective time-saving outcomes.

## 4. METHOD:

### 4.1 RESEARCH METHODOLOGY:

The research methodology uses a Questionnaire about acceptance of new technology and learning outcomes to improve Enterprise applications systems. Questions were formed in the Questionnaire to collect the data so as to get the approx idea about the study.

### 4.2 RESEARCH DESIGN:

To obtain the objectives of the research Descriptive and **Qualitative** research design has been used. The descriptive design has been used to understand how Logic Apps empower Enterprise applications and the **Qualitative method helps to know the view of programmers about the acceptance of cloud computing tools in education.**

### 4.3 DATA COLLECTION:

#### Primary Data collection:

- Questionnaire Method

#### Secondary Data Collection

- Reports from Publications.
- Research papers
- Articles
- Newspapers
- Website links

## 5. DISCUSSION:

After observing primary data we may conclusively state that Logic Apps in cloud computing will give better services to students and helps significantly to minimize various cost such as operational cost and time-saving.

**6. CONCLUSION:**

Logic Apps is a very powerful service that allows developers and enterprises to make the most of Integration. Logic Apps has ready-made components and a lightweight design, supported by an easy DevOps process. It is the best middleware technology in the market.

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