Logic App:

* Logic Apps are used to build powerful solutions integrating various SaaS and enterprise.
* Logic Apps use a workflow engine and a visual designer to design business processes graphically, and then connect them through connectors so that users can access data and required services. All this is achieved without writing a single line of code.
* The functionality of the out of the box connectors is based on the APIs that can trigger new instances of the workflow based on a specific event.
* Each step in the workflow is an action that accesses data or services through the connector.
* Best of all, Logic Apps can be combined with built-in Managed APIs to help solve even trickly integration scenarios with ease.

AS mentioned, with Logic App , we can automate business processes.

Here are a couple examples:

* Fetch phone numbers of New contacts added into the CRM system like Sales Force or Dynamics, process them and automatically send them Welcome message by SMS.
* We can automatically fetch new records in a SQL DB and then send email alert to users.
* Automatically find negative posts on Facebook wall and insert the same to the database and delete.
* Monitor tweets for a specific subject, analyze the sentiment, and create alerts or tasks for items that need review.

Why Logic Apps?

* Logic Apps allow developers to design workflow that start from a trigger and then execute a series of steps. Each step invokes an API while securely taking care of authentication and best practices, like check pointing and durable execution.
* You don’t have to worry about **hosting, scaling, managing, maintaining and monitoring** your apps. Logic Apps handles these concerns for you.
* You pay only for what you use based on a consumption pricing model.
* In many cases, you won’t have to write code. But if you must write some code, you can create code snippets with **Azure functions** and run that code on-demand from logic apps.

**Triggers and Actions**

Triggers- A trigger starts a new instance of a workflow based on a specific event, like the arrival of an e-mail or a change in your Azure Storage account or a Post on your Facebook wall.

Actions-Each step after the trigger in a workflow is called an action. Each action typically maps to an your managed or custom API apps. There are built-in actions for structing and controlling the actions in your logic app’s workflow. For example, you could insert a condition to evaluate a condition and run different actions based on whether the condition is true or false. Other built-in actions are: For each, Scope, Switch, Terminate, and Until.

**Managed Connectors**

Manages connectors play an integral part when you create automated workflows with Logic Apps. By using connectors in your logic apps, you expand the capabilities for your on-premises and cloud apps to platform tasks with the data that you create and already have.

Logic Apps offers 200+ connectors, including:

* **Managed API connectors:** This includes Azure BlobStorage, Office 365. Dynamic, Power BI, OneDrive, Salesforce, Facebook, and file shares.
* **On-premises connectors:** This include SQL Server, SharePoint Server, Oracle DB, Twitter, Salesforce, Facebook, and file shares.
* **Integration account connectors:** Available when you create and pay for an integration account, these connectors transform and validate XML, encode, and decode flat files, and process business-to-business (B2B) messages with AS2, EDIFACT, and X12 protocols.
* **Enterprise connectors**: Provide access to enterprise systems such as SAP and IBM MO for an addition cost.

Advantages:

* Logic Apps can be designed end-to-end in browser using the design tool provided in Azure Portal.
* Logic Apps make it an easy to connect disparate systems. Eg: Want to create a task in your CRM software that is based on the activity from your Facebook or Twitter accounts.
* Gallery of Templates are provided to rapidly create common solutions.
* Logic app is designed to work with API apps; you can easily create your own API app to use a custom API. Build a new app just for you, or share and monetize in the marketplace.
* Logic Apps can easily leverage the power of BizTalk, Microsoft’s industry leading integration professionals to build the solution they need.

<https://blogs.technet.microsoft.com/stefan_stranger/tag/powershell/>

<https://blogs.technet.microsoft.com/stefan_stranger/2017/06/23/azur-logic-apps-schedule-your-runbooks-more-often-than-every-hour/>

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-custom-api-host-deploy-call>