

Logic Apps



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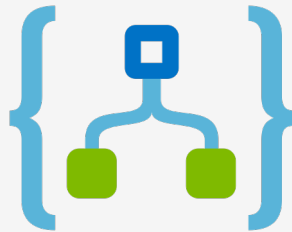
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Serverless Components in Azure



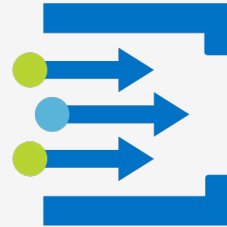
Functions

Serverless Compute



Logic Apps

Serverless Workflows



Event Grid

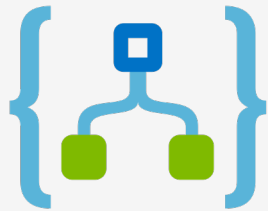
Serverless Events



Cosmos DB

Serverless Documents
Database

What are Azure Logic Apps



Serverless architecture

200+ connectors

Custom Connectors

Create nearly codeless Workflows

Logging and tracking as platform feature

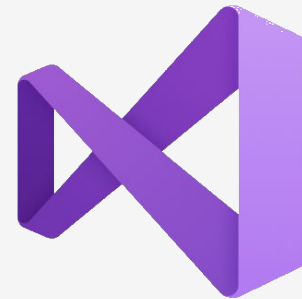
Good integration with other Azure Features

Simple, yet powerful

Logic Apps: Designer Options

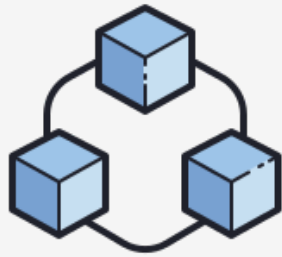


Web-based designer
in the Azure Portal



Plugin-in for Visual Studio

Logic Apps: Components



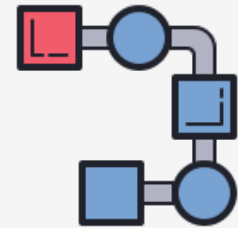
Connectors



Triggers



Actions



Flow Control

Logic App: Triggers and Connectors

On-prem connectors

BizTalk Server, IBM DB2,
SharePoint, SQL Server,
File System

Managed API Connectors

SQL Server, Office365,
Dynamics365, SharePoint
Online, Azure Blob, Twitter

Built-in Triggers

Schedule, HTTP, Request,
Azure Functions, ...

Enterprise Connectors

IBM, SAP

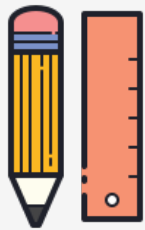
Integration connectors

EDIFACT, Flat file,
X12, AS2

Control Flow

Condition, For each,
Switch, ...

Logic Apps: Custom Connectors



Custom connectors can fill gaps in the ever-growing library of connectors

Abstraction that sits on top of a REST API and has an Open API contract

Supports different ways to secure as Custom Connector

- API Key
- Basic Auth
- OAuth2

Needs a API Connection

Logic Apps: Hosting



So far: Hosted serverless on Azure ...

From today:

- Host Logic Apps wherever you can run Azure Functions
 - AKS
 - AppServices
- Logic Apps are available as microservice workflow orchestrator in Dapr

Logic Apps: Monitoring



Can use Azure Monitor Logs to record and store information in Log Analytics Workspaces

Send Diagnostic data to

- Azure Storage
- Azure Event Hubs

Each diagnostic event has details about your logic app and that event

Logic Apps: Pricing



Consumption pricing model

- Pay only for what you use
- Azure Logic Apps meters all the actions that run in your logic app

Fixed pricing model

- ISE provides an isolated way for you to create and run logic apps
- Can use Azure VNet
- Developer and Premium ISE

Prices:

- Standard Connectors: \$0.000125
- Enterprise Connectors: \$0.001
- Actions: \$0.000025

Disabled logic apps aren't charged

Logic Apps: Use Cases



Async trigger for business logic

Return data from on-prem

Abstract business logic

Data Transformation

Data Validation

Logic App: Demo

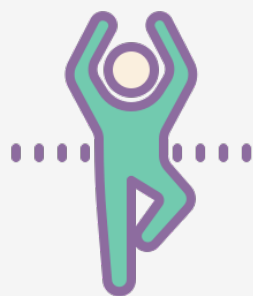


Create a logic app in Azure Portal

Show the Azure Portal Designer

Run a simple Logic App and show logging/tracking

Logic App: Exercise



Create a LogicApp to receive events and send alert Emails

In exercise for EventGrid you used a timer function to query the measured values of the Netatmo station regularly and send them to an EventGrid. In exercise with CosmosDB you received the measured values from the EventGrid with an EventGridTrigger and persisted them in a CosmosDB.

Now we will take a closer look at another part of the Azure Serverless world: The Logic Apps. We will create a LogicApp with an EventGrid trigger and subscribe to the events from the same EventGrid from last exercises.

If the measured values exceed a limit you set, the Logic App should send you an email. To send the email we will use Azure SendGrid.