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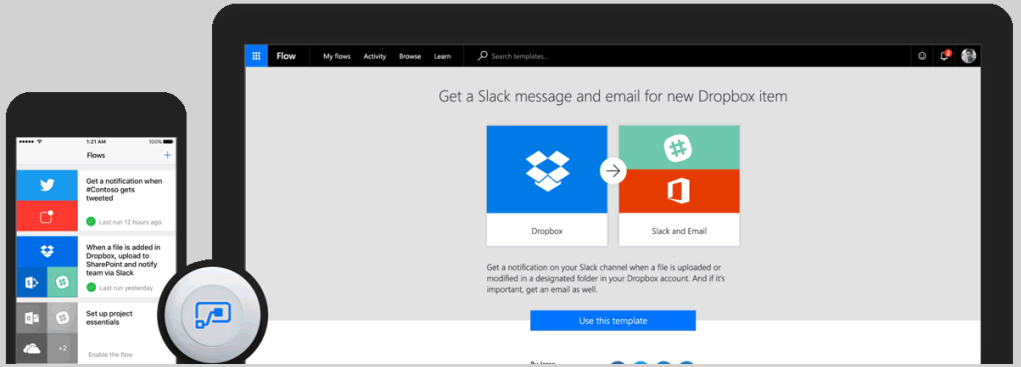
(Microsoft Flow VS Azure Logic Apps) & Azure Functions

Fabio Franzini –
Microsoft “Office Servers & Services” MVP

Microsoft Flow

Microsoft Flow is an online **workflow service** that enables you to work smarter and more efficiently by **automating workflows** across the most common apps and services



Microsoft Flow

- **Microsoft Flow is an iSaaS** (Integration Software as a Service) product where citizen integrators can setup automated workflows between multiple apps and services.
- Flow comes with a **Web visual designer** with many **templates** for common scenarios and the flow team continues to build new templates.
- You can also create flows from scratch **connecting multiple services** such as Common Data Service, SharePoint, Dynamics 365, Slack, and Twitter to name a few.

With Microsoft Flow you able to:

- **Turn repetitive tasks into multistep workflows**
- Make decisions in your workflow, like **running an action only when certain conditions** are met
- **Connect securely to on-premises data** (using On-Premises Data Gateway) and cloud based services
- **Prevent sensitive data from leaving your company** using built-in or customized data loss prevention policies

Demo

Logic Apps

Azure Logic Apps simplifies how you **build automated scalable workflows** that **integrate** apps and data across cloud services and on-premises systems.

Logic Apps

Logic Apps allow developers to design workflows that articulate intent via a trigger and series of steps, each invoking an App Service API app whilst securely taking care of authentication and best practices like durable execution.

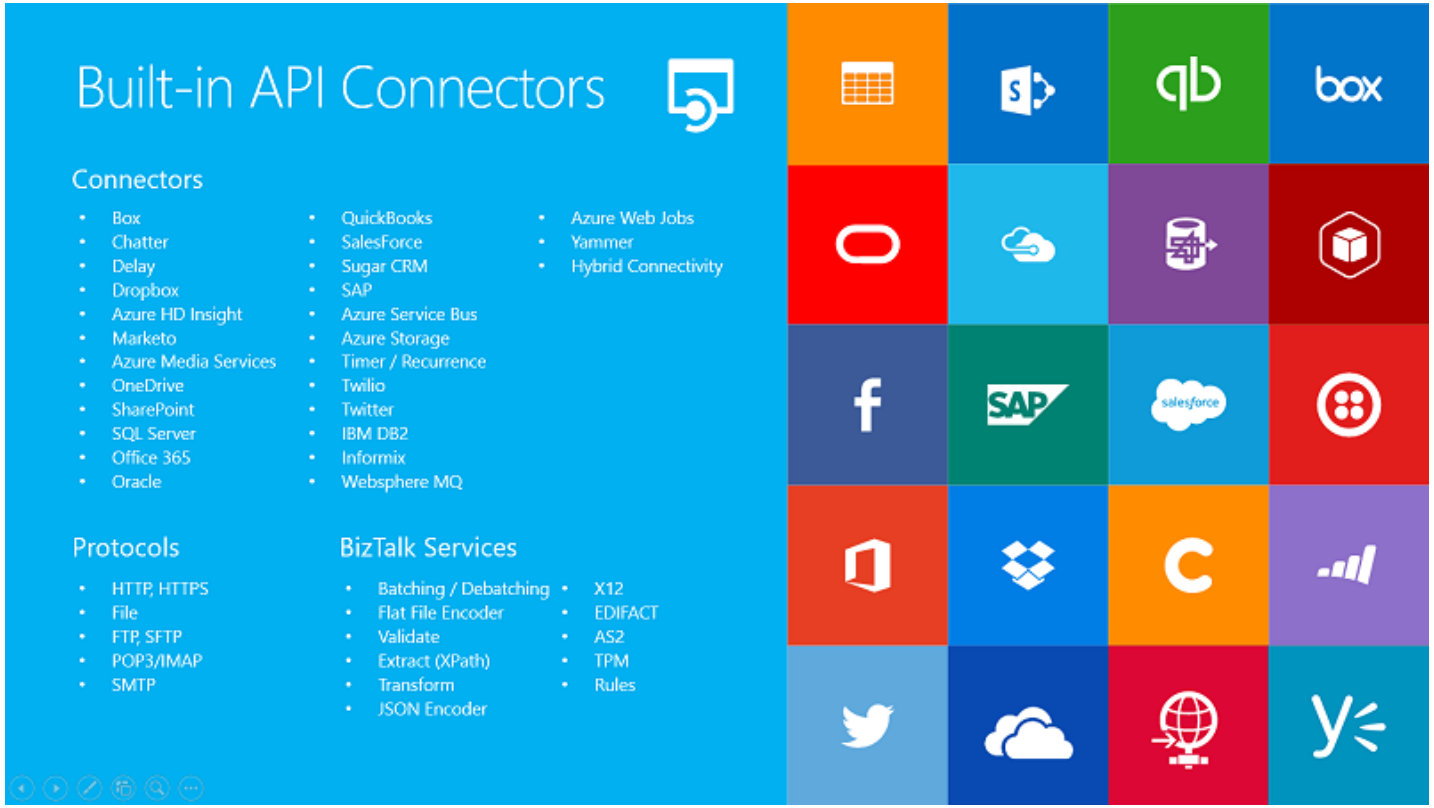
Easy to use design tools - Logic Apps can be designed end-to-end in the browser. Start with a trigger - from a simple schedule to whenever a tweet appears about your company. Then orchestrate any number of actions using the rich gallery of connectors.

Compose SaaS easily - Even composition tasks that are easy to describe are difficult to implement in code. Logic Apps make it a cinch to connect disparate systems. Want to create a task in CRM based on activity on your Facebook or Twitter accounts? Want to connect your cloud marketing solution to your on-premises billing system? Logic apps are the fastest, most reliable way to deliver solutions to these problems.

Extensibility baked in - Don't see the connector you need? Logic Apps are part of the App Service suite and designed to work with API apps; you can easily create your own API app to use as a connector. Build a new app just for you, or share and monetize in the marketplace.

Real integration horsepower - Start easy and grow as you need. Logic Apps can easily leverage the power of BizTalk, Microsoft's industry leading integration solution to enable integration professionals to build the solutions they need.

Logic Apps Connectors



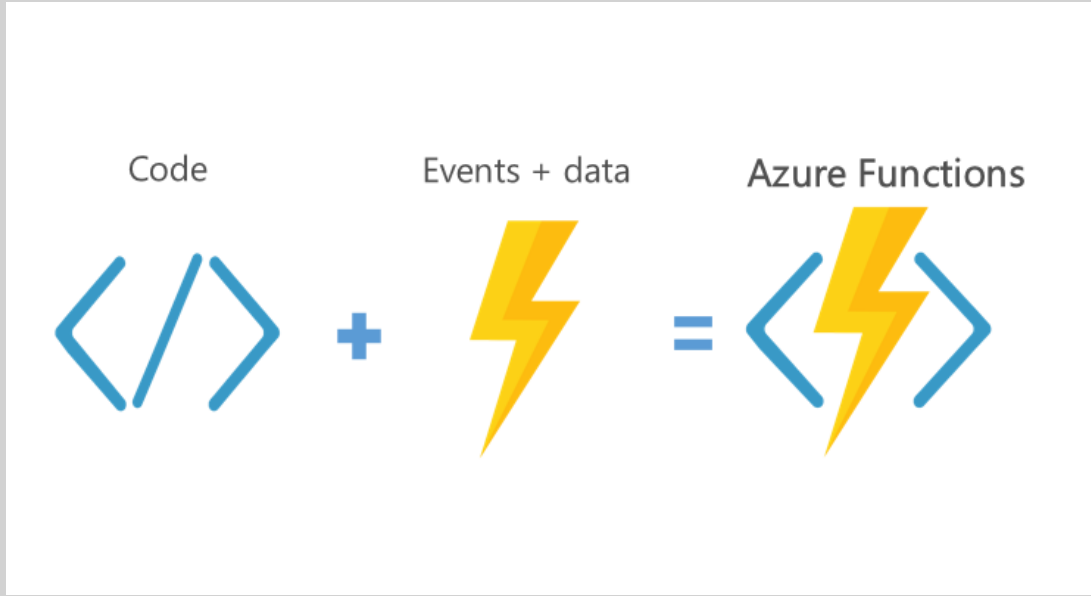
Demo

	Flow	Logic Apps
Users	Office workers, business users, SharePoint administrators	Pro integrators and developers, IT pros
Scenarios	Self-service	Advanced integrations
Design Tool	In-browser and mobile app, UI only	In-browser and Visual Studio, Code view available
Application Lifecycle Management (ALM)	Design and test in non-production environments, promote to production when ready.	DevOps: source control, testing, support, automation, and manageability in Azure Resource Management
Admin Experience	Manage Flow Environments and Data Loss Prevention (DLP) policies, track licensing https://admin.flow.microsoft.com	Manage Resource Groups, Connections, Access Management, and Logging https://portal.azure.com
Security	Office 365 Security and Compliance audit logs, Data Loss Prevention (DLP), encryption at rest for sensitive data, etc.	Security assurance of Azure: Azure Security, Security Center, audit logs, and more.

Microsoft Flow VS Logic Apps

Azure Functions

Azure Functions is a solution for easily running small pieces of code, or "functions," in the cloud. You can write just the code you need for the problem at hand, without worrying about a whole application or the infrastructure to run it.



Azure Functions Features

Choice of language - Write functions using your choice of C#, F#, or Javascript. See Supported languages for other options.

Pay-per-use pricing model - Pay only for the time spent running your code. See the Consumption hosting plan option in the pricing section.

Bring your own dependencies - Functions supports NuGet and NPM, so you can use your favorite libraries.

Integrated security - Protect HTTP-triggered functions with OAuth providers such as Azure Active Directory, Facebook, Google, Twitter, and Microsoft Account.

Simplified integration - Easily leverage Azure services and software-as-a-service (SaaS) offerings. See the integrations section for some examples.

Flexible development - Code your functions right in the portal or set up continuous integration and deploy your code through GitHub, Visual Studio Team Services, and other supported development tools.

Open-source - The Functions runtime is open-source and available on GitHub.

Microsoft Flow, Logic Apps & Azure Functions

Let's have a look which service to use in which situation from the following points:

- If you have to deal with **simple business optimization**, then use **Flow**.
- If your **integration scenario** is too advanced for Flow, or you need DevOps capabilities and security compliances, then use **Logic Apps**.
- If a step in your integration scenario requires highly **custom transformation or specialized code**, then write a **function** app, and then trigger a function as an action in your logic app.

Demo

References

- https://docs.microsoft.com/en-us/flow/
- https://docs.microsoft.com/en-us/azure/logic-apps/
- https://docs.microsoft.com/en-us/azure/azure-functions/

Grazie

Domande?

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