



# Microsoft Ignite The Tour

[aka.ms/AFUN95](http://aka.ms/AFUN95)

#MSIgniteTheTour



# 清楚理解 Azure Functions 和 Azure 逻辑应用

Justin Yoo

Senior Cloud Advocate

[aka.ms/AFUN95](http://aka.ms/AFUN95)

#MSIgniteTheTour



# 参考资源

## ⬇️ 本课程参考资源

[aka.ms/AFUN95](https://aka.ms/AFUN95)

## ⬇️ 本课程 GitHub 代码库

[aka.ms/AFUN95Repo](https://aka.ms/AFUN95Repo)

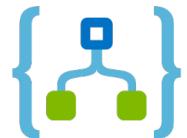
## ⬇️ 所有课程参考资源

[aka.ms/mymsignitethtour](https://aka.ms/mymsignitethtour)

# 课程大纲



什么是“无服务器”？



Azure 逻辑应用



Azure Functions

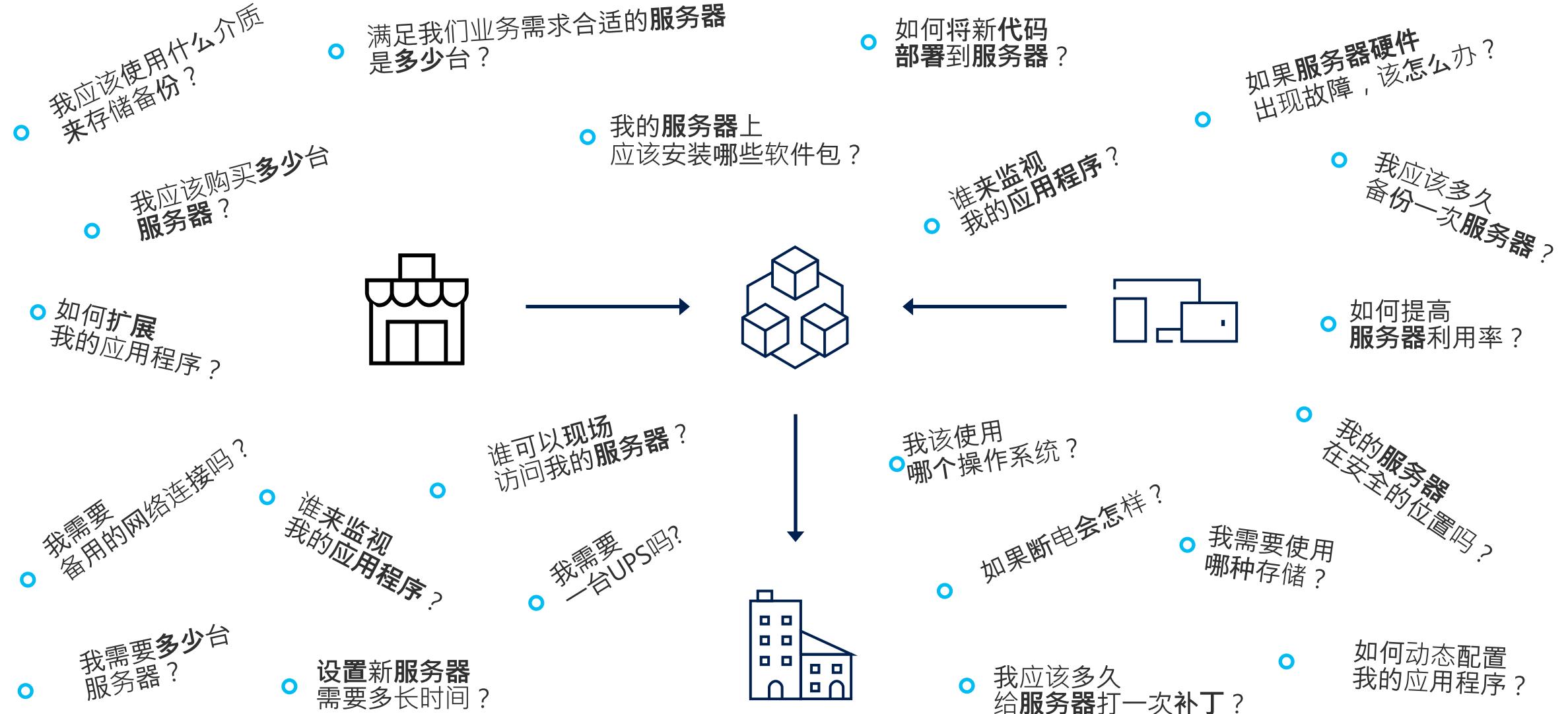


怎样整合在一起

# 无服务器简介



# Serverless



本地部署

aka.ms/AFUN95

应用平台的“进化”

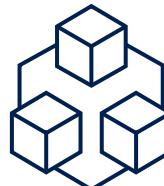
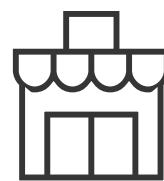
#MSIgniteTheTour

满足我们业务需求合适的服务器是多少台？

如何提高服务器利用率？

我需要多少台服务器？

如何扩展我的应用程序？



我应该多久给**服务器**打一次补丁？

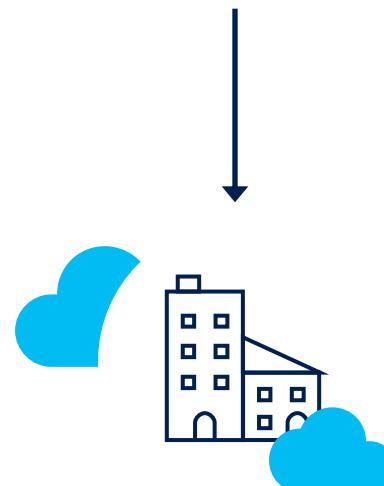
我应该多久备份**服务器**？

我的**服务器**上应该安装哪些软件包？

如何将新代码部署到**服务器**？

我该使用哪个操作系统？

谁来监视我的**应用程序**？



本地部署

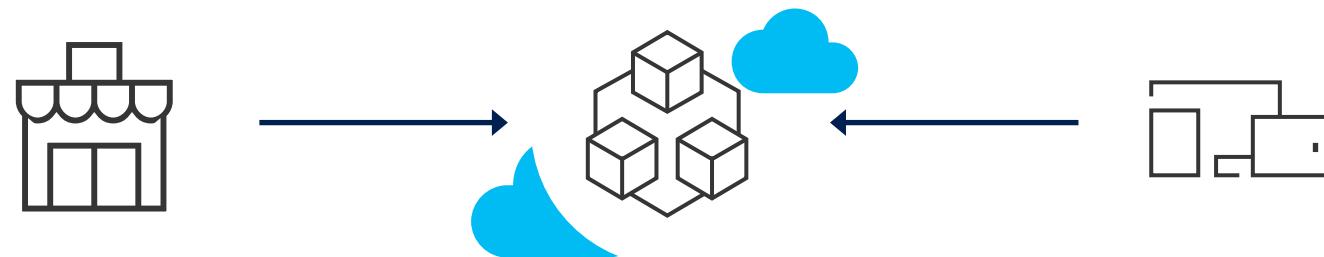
IaaS

满足我们业务需求合适的服务器是多少台？

如何提高服务器利用率？

我需要多少台服务器？

如何扩展我的应用程序？

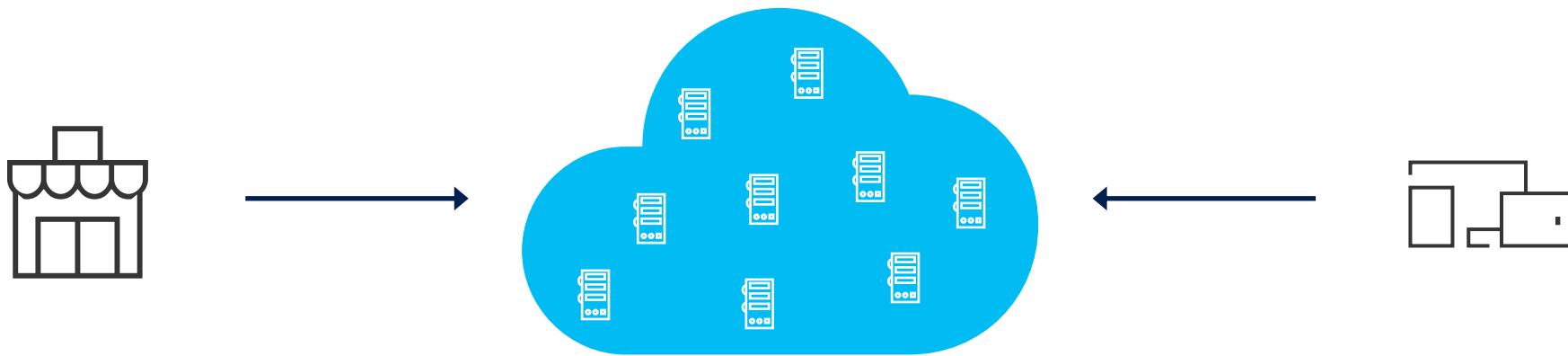


本地部署

IaaS

PaaS

如何设计我的应用？



无服务器，云原生应用的平台

本地部署

IaaS

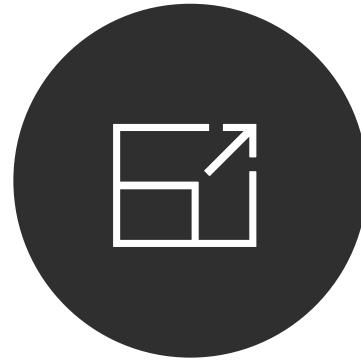
PaaS

无服务器

# 什么是无服务器？



服务器抽象

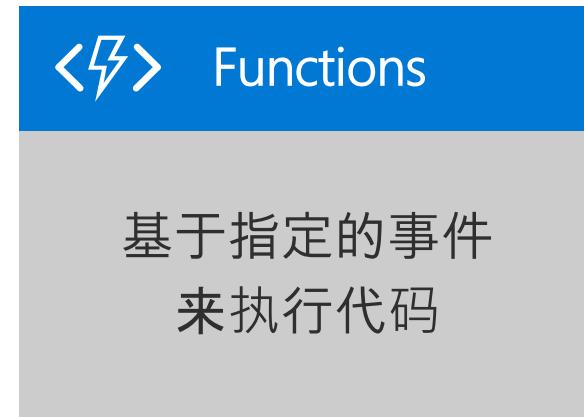


事件驱动 / 实时扩展



微计费

# Azure 无服务器平台的组件



# Azure 无服务器平台的组件

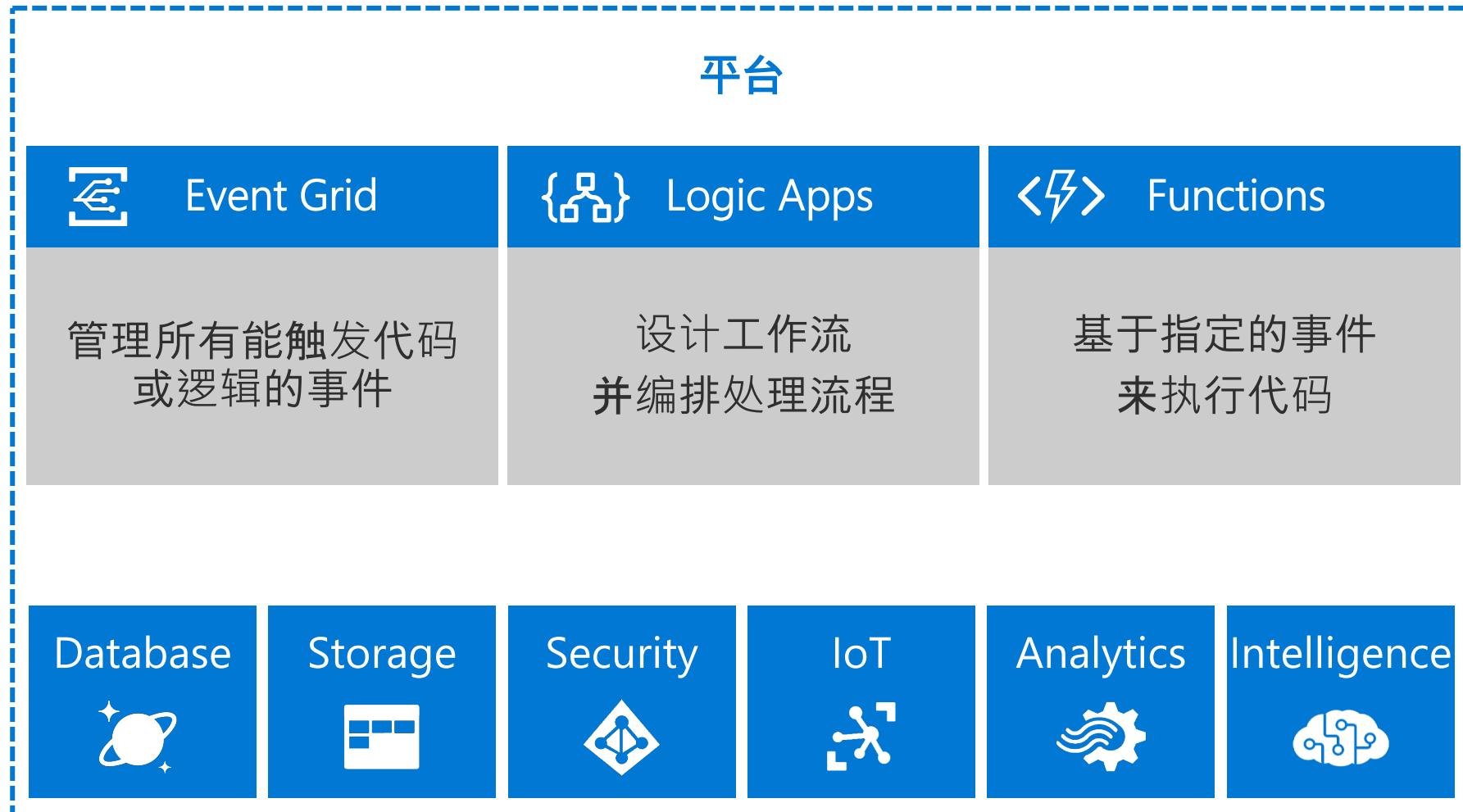
{フローチャート} Logic Apps

设计工作流  
并编排处理流程

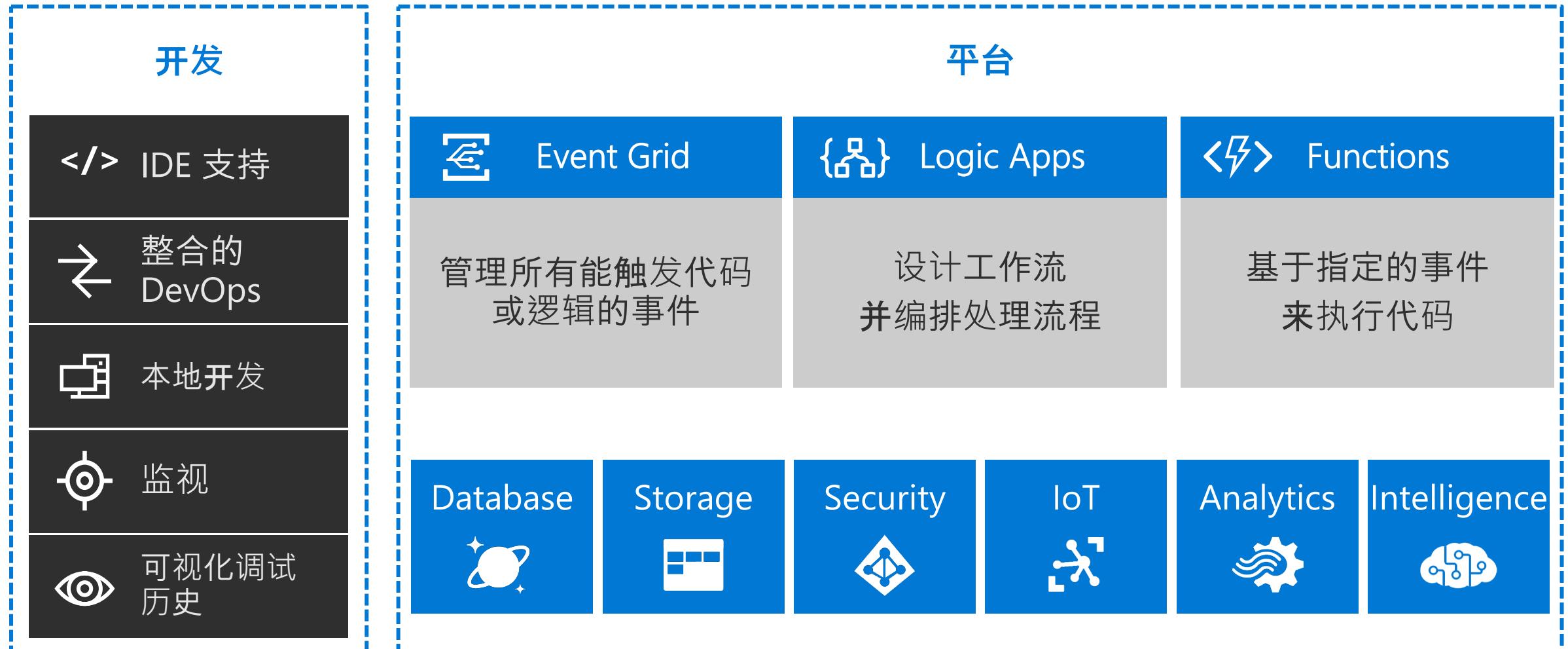
<⚡> Functions

基于指定的事件  
来执行代码

# Azure 无服务器平台的组件



# Azure 无服务器平台的组件



# Azure 逻辑应用

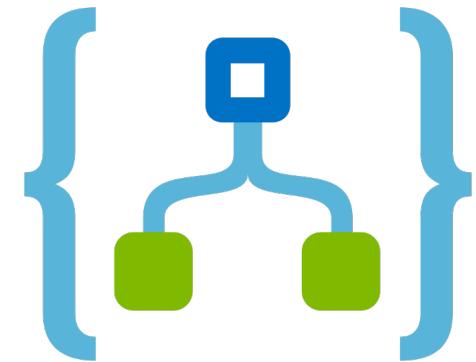


# Integration as a Services (iPaaS)

使用图形化设计器进行快速集成，并使用触发器和操作创建工作流程

连接应用程序，数据和服务

连接和编排 Azure Functions

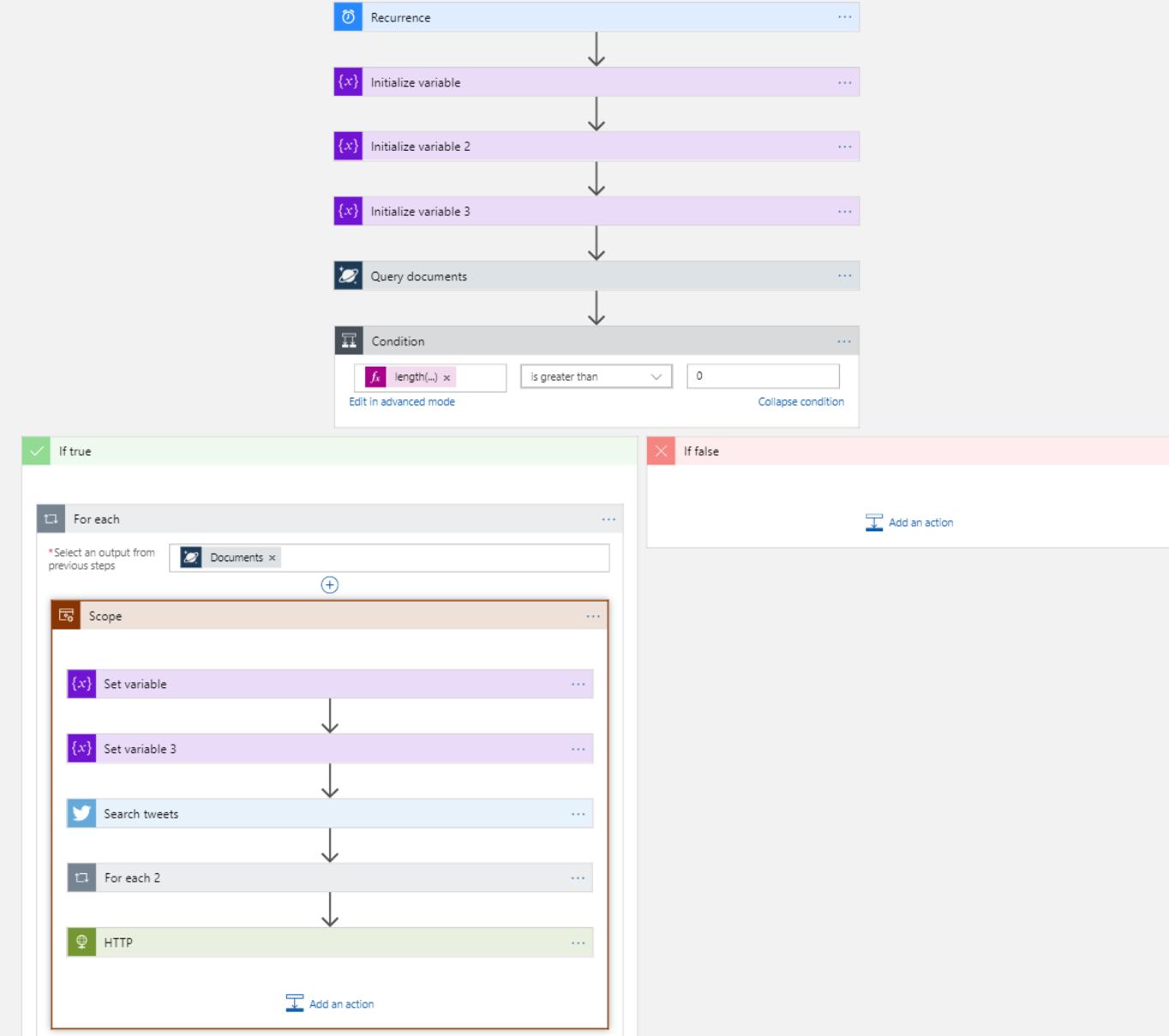


The screenshot shows the 'Connectors' tab selected in the top navigation bar. Below it, a grid of icons and names for various connectors is displayed. The first row includes Service Bus, SQL Server, Office 365 Outlook, Azure Blob Storage, Text Analytics, 10to8 Appointme..., and Act!. A dropdown arrow indicates more options are available. Below this is a section titled 'Actions' with a list of triggers and actions:

Trigger / Action	Service	More Options
Reply to email	Gmail	(i)
Send email	Gmail	(i)
Create an event	Google Calendar	(i)
Create file	Google Drive	(i)
List files in folder	Google Drive	(i)
Get rows	Google Sheets	(i)
Insert row		(i)

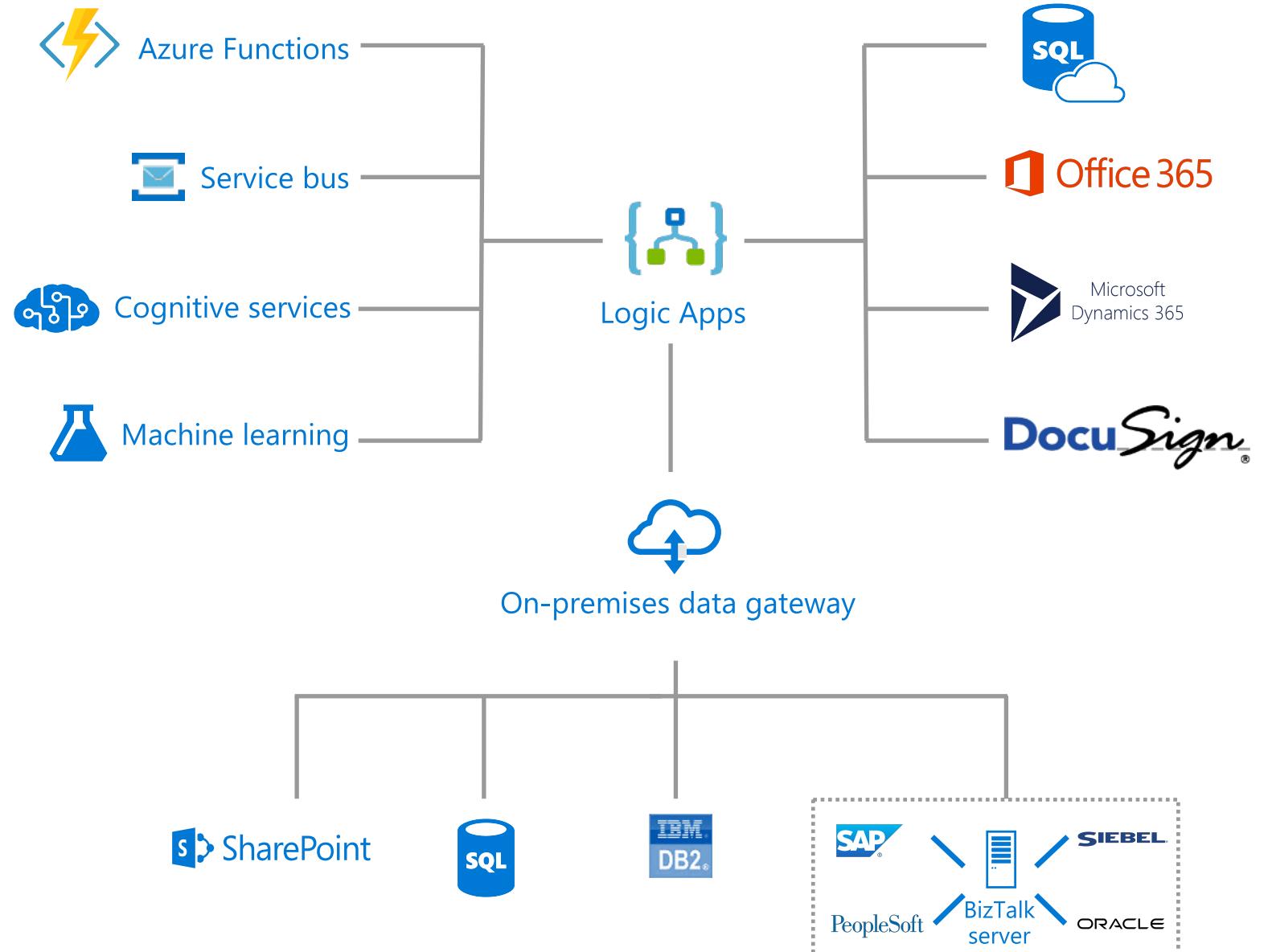
数百个用于集成的连接器

# 图形化工作流设计器



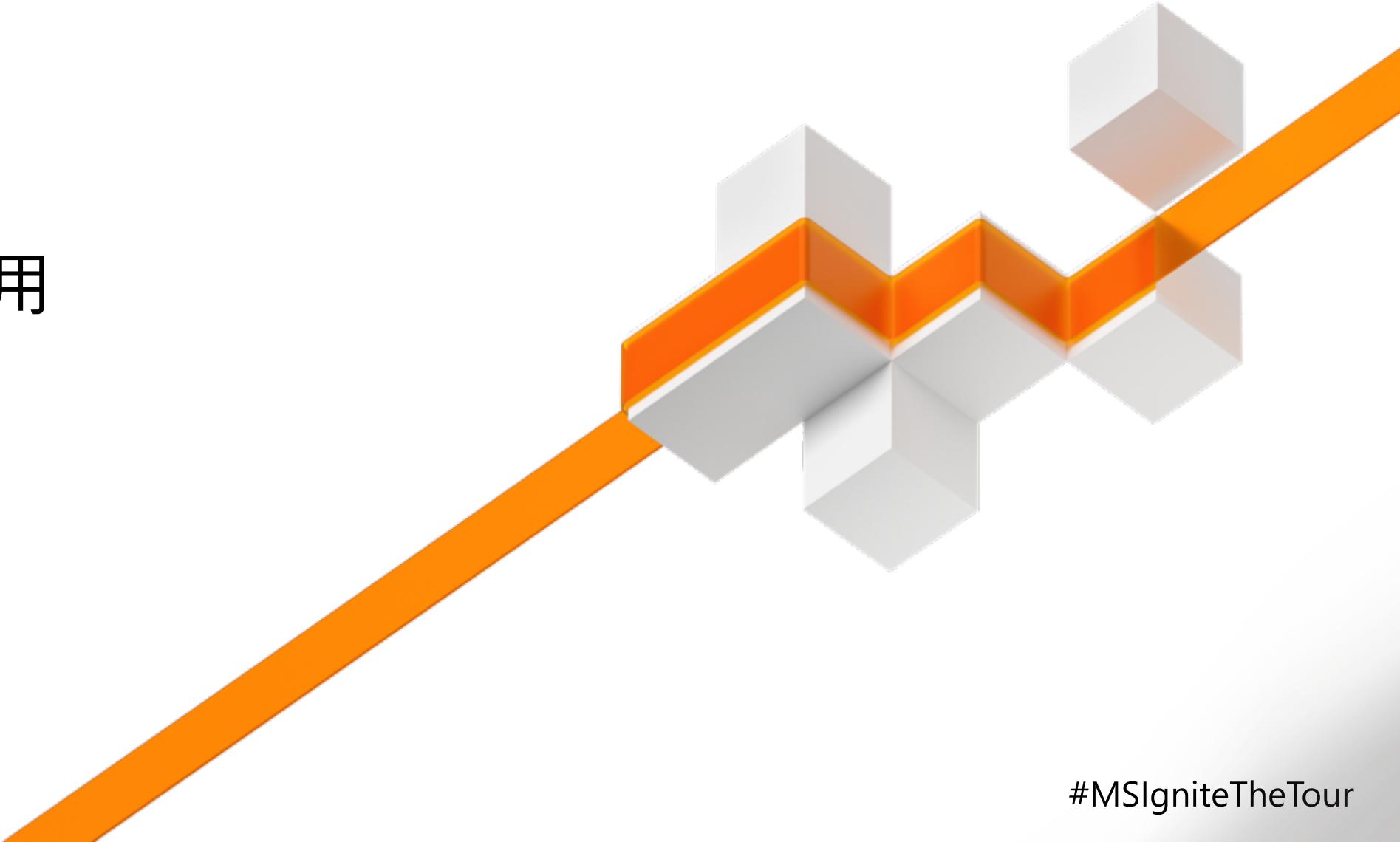
aka.ms/AFUN95

逻辑应用  
连接一切



#MSIgniteTheTour

# 演示: 逻辑应用

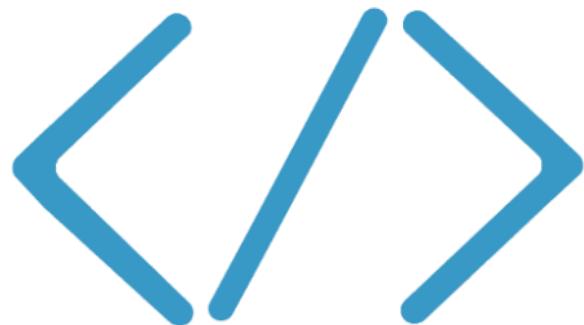


# Azure Functions



# 介绍 Azure Functions

代码



Azure Functions

+

事件



# 为什么用 Azure Functions ?

- 1 支持 C#, Node/JavaScript, Python, F#, PHP, PowerShell, Bash, Batch
- 2 支持 NuGet 和 NPM
- 3 甚至能运行exe , 或调用dll

# 还有其他原因？

## 触发器

- Blob Storage
- Cosmos DB
- Event Hub
- HTTP
- Queues
- Service Bus
- Timer
- Webhook

## 绑定

- File
- Table
- Excel
- OneDrive
- Email
- Mobile app
- Notification
- More...



# /Docs 提醒

探索概述、教程、  
例子以及更多

[aka.ms/funcTriggers](https://aka.ms/funcTriggers)

Filter by title

- Functions Documentation
- Overview
- Quickstarts
  - Create function - Visual Studio Code
  - Create function - Visual Studio
  - Create function - Java/Maven
  - Create function - Python
  - Create function - PowerShell
  - Create function - Azure CLI
  - Create function - portal
  - Create function - Linux
- > Triggers
- > Integrate
- Tutorials
- Samples
- Concepts
  - Compare versions 1.x and 2.x
  - Scale and hosting
  - Premium plan
  - Deployments
- > Triggers and bindings
  - About triggers and bindings
  - Binding example
  - Register binding extensions
  - Binding expression patterns
  - Use binding return values

## Azure Functions triggers and bindings concepts

02/17/2019 • 3 minutes to read • 16 contributors +16

In this article you learn the high-level concepts surrounding functions triggers and bindings.

Triggers are what cause a function to run. A trigger defines how a function is invoked and a function must have exactly one trigger. Triggers have associated data, which is often provided as the payload of the function.

Binding to a function is a way of declaratively connecting another resource to the function; bindings may be connected as *input bindings*, *output bindings*, or both. Data from bindings is provided to the function as parameters.

You can mix and match different bindings to suit your needs. Bindings are optional and a function might have one or multiple input and/or output bindings.

Triggers and bindings let you avoid hardcoding access to other services. Your function receives data (for example, the content of a queue message) in function parameters. You send data (for example, to create a queue message) by using the return value of the function.

Consider the following examples of how you could implement different functions.

Example scenario	Trigger	Input binding	Output binding
A new queue message arrives which runs a function to write to another queue.	Queue*	None	Queue*
A scheduled job reads Blob Storage contents and creates a new Cosmos DB document.	Timer	Blob Storage	Cosmos DB
The Event Grid is used to read an image from Blob Storage and a document from Cosmos DB to send an email.	Event Grid	Blob Storage and Cosmos DB	SendGrid
A webhook that uses Microsoft Graph to update an Excel sheet.	HTTP	None	Microsoft Graph

\* Represents different queues

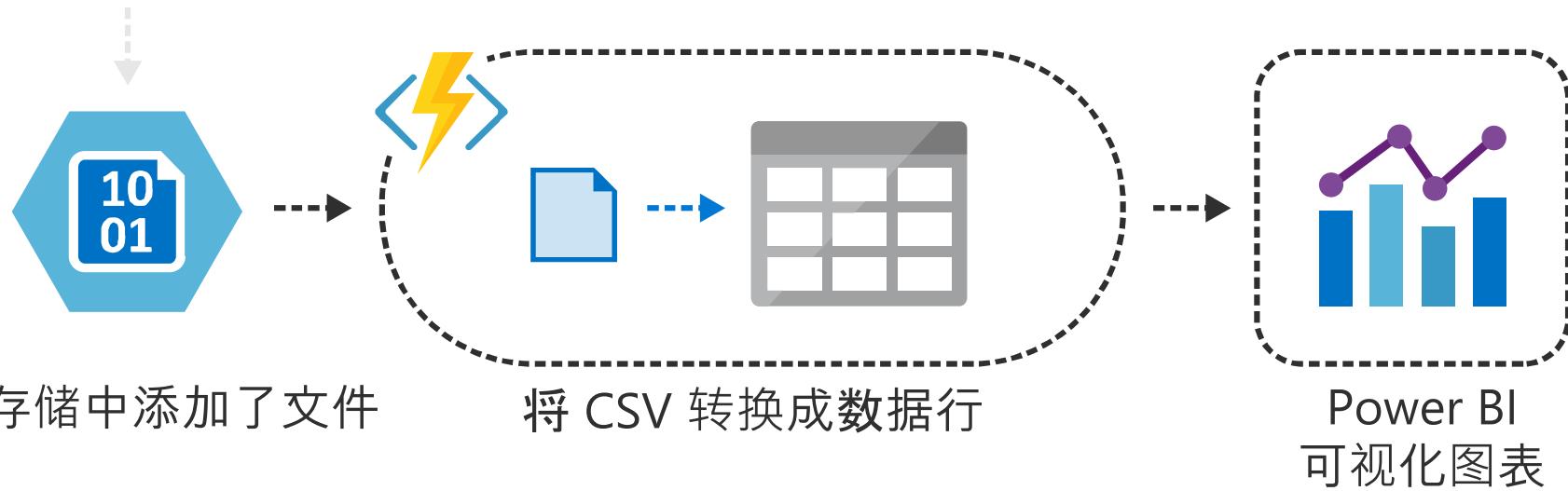
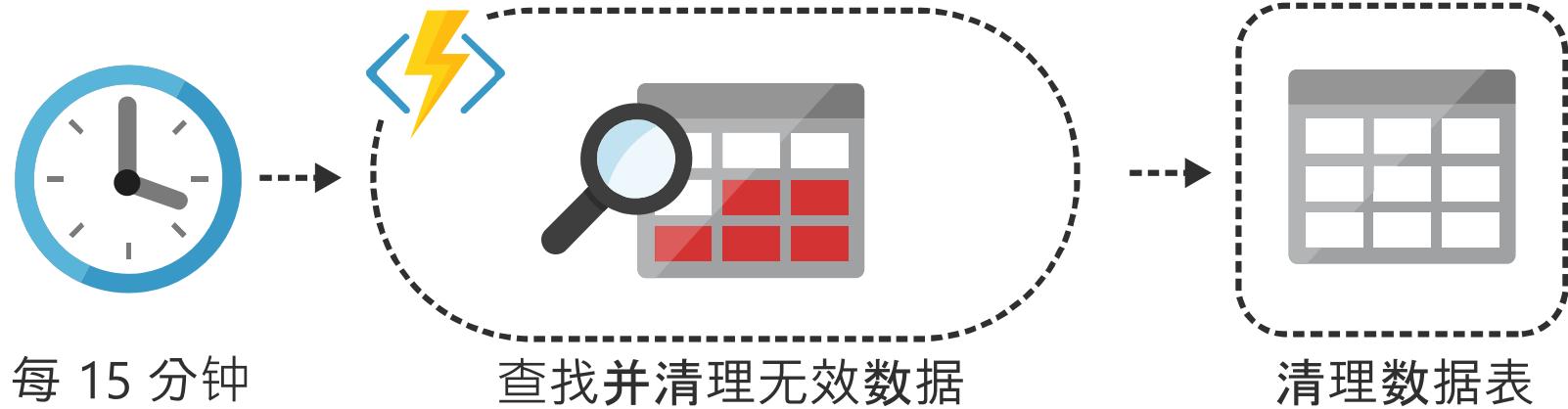
These examples are not meant to be exhaustive, but are intended to illustrate how triggers and bindings together

Is this page helpful?  
 Yes  No

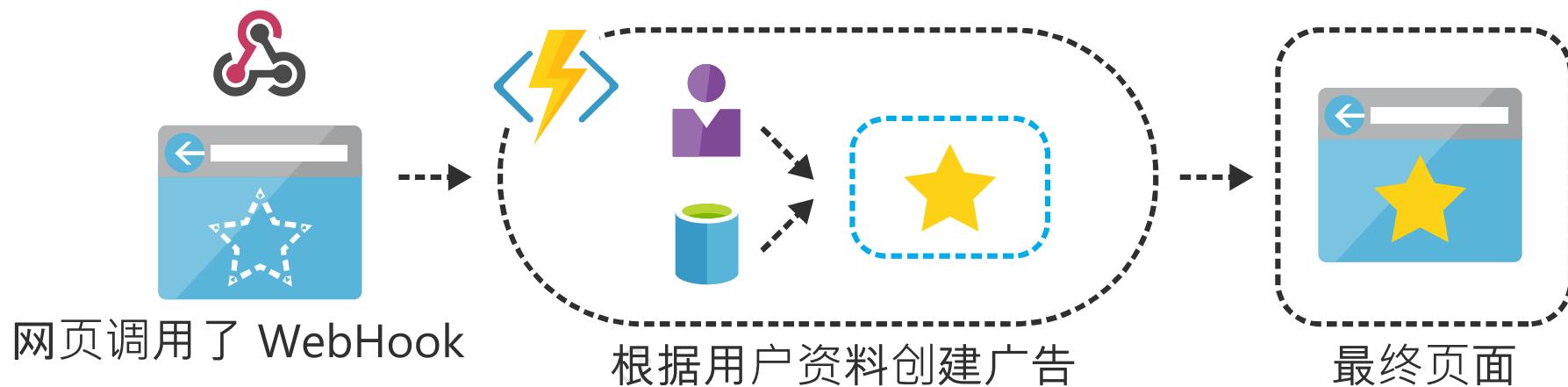
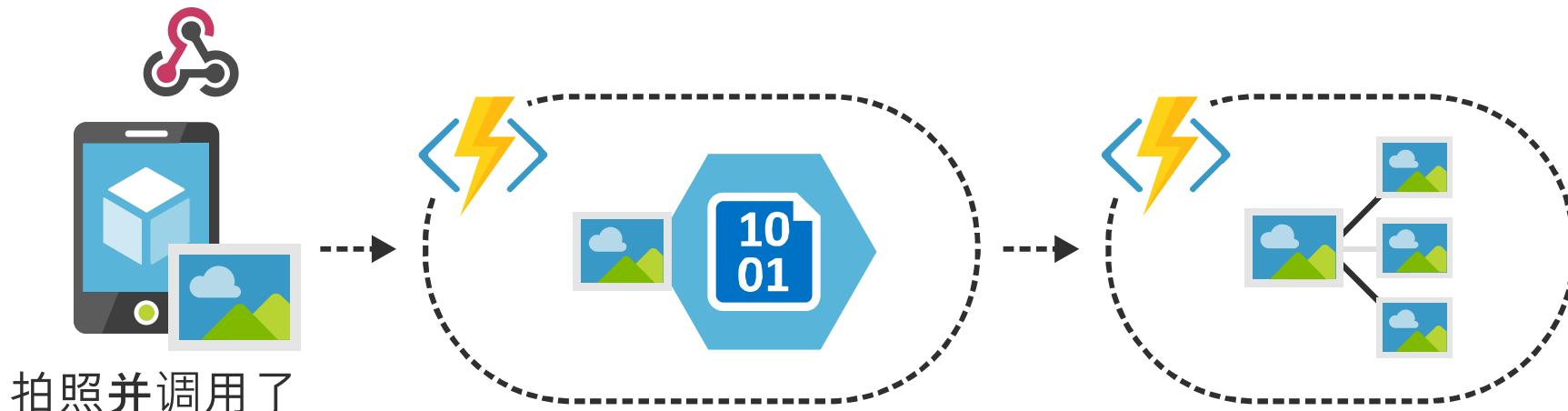
In this article

- Binding direction
- Supported bindings
- Resources
- Next steps

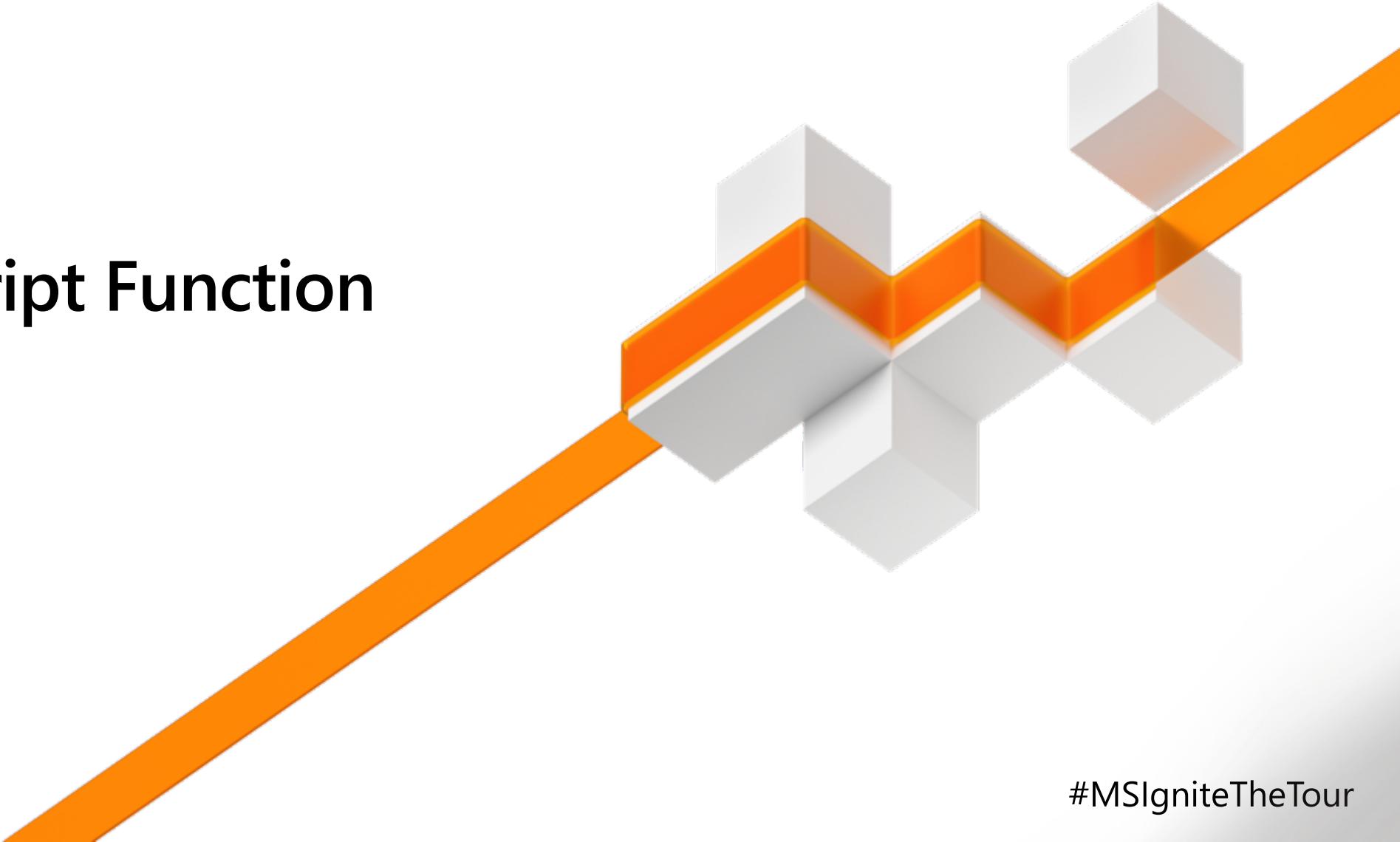
# 场景



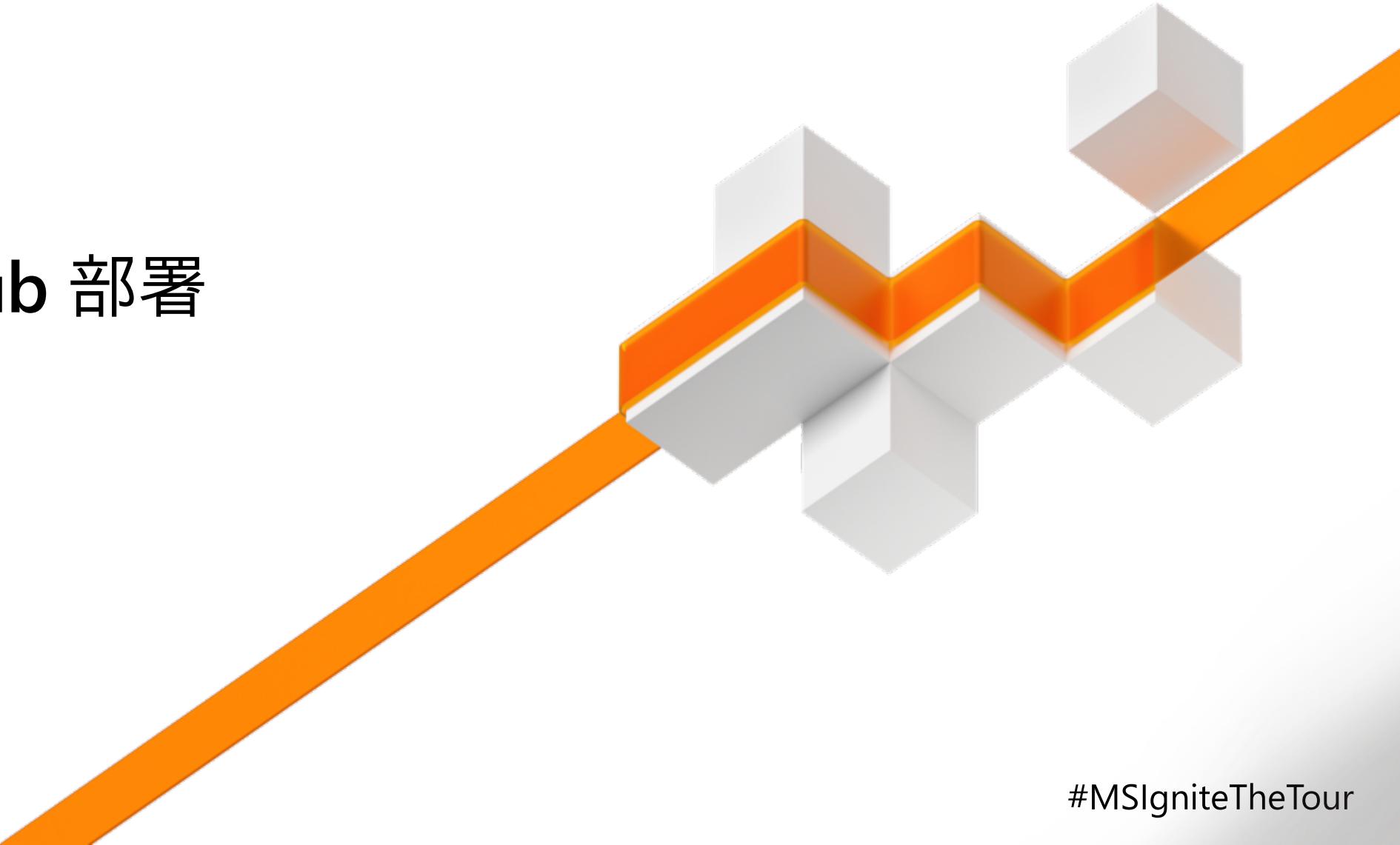
# 场景



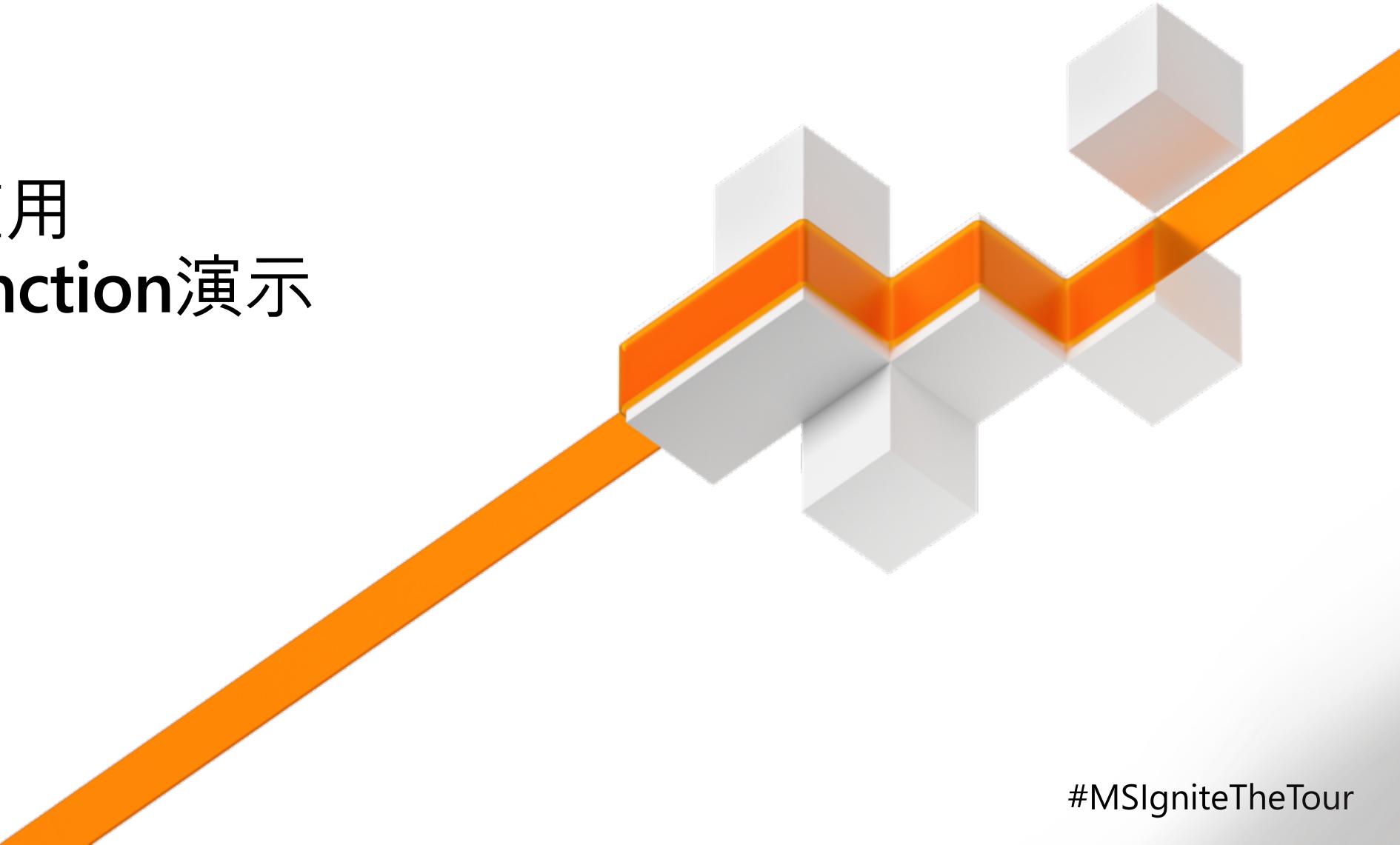
# 演示: JavaScript Function



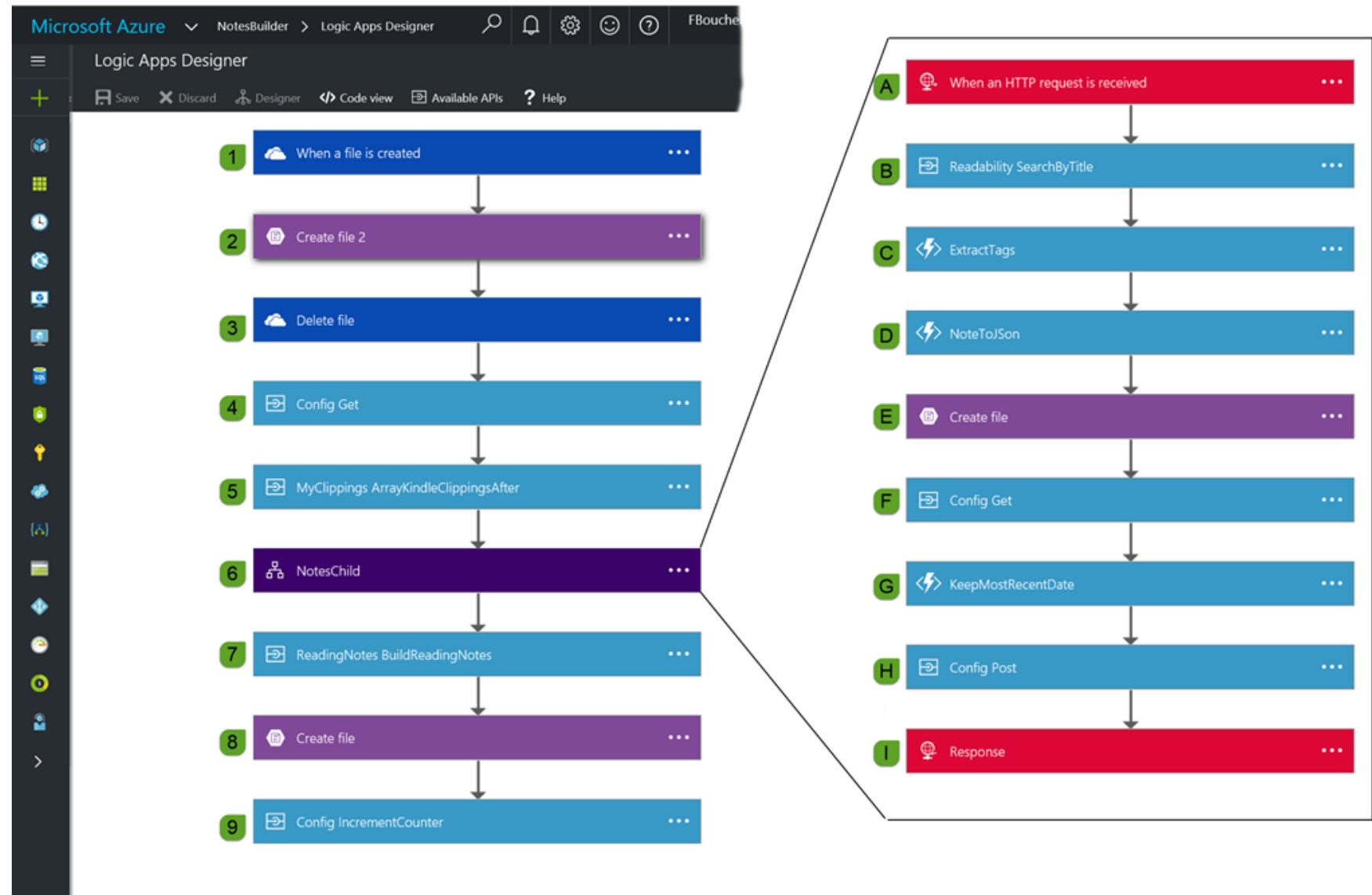
# 演示从 GitHub 部署



# Azure 逻辑应用 和 Azure Function 演示



# 全部放在一起





Microsoft Azure

Contact Sales: 1-800-867-1389 Search Portal Free account >

Overview Solutions Products Documentation Pricing Training Marketplace Partners Support Blog More

Docs / Learn / Browse / Create serverless applications Theme Sign in

8700 XP

## Create serverless applications

7 hr 10 min • Learning Path • 8 Modules

Beginner Intermediate Developer Azure Functions Azure Portal Cosmos DB Storage Cloud Shell

Azure Functions enable the creation of event driven, compute-on-demand systems that can be triggered by various external events. Learn how to leverage functions to execute server-side logic and build serverless architectures.

Prerequisites  
None

Modules in this learning path

Choose the best Azure service to automate your business processes

44 min • Module • 7 Units

4.5 (542)

Microsoft Azure provides several different ways to host and execute code or workflows without using Virtual Machines (VMs) including Azure Functions, Microsoft Flow, Azure Logic Apps, and Azure WebJobs. In this module, you will learn about these technologies and how to choose the right one for a given scenario.

Start Overview

# /MS Learn 提醒

完成互动练习，观看视频，  
并习得新技能。

[aka.ms/AFUN95MSLearnCollection](https://aka.ms/AFUN95MSLearnCollection)

aka.ms/AFUN95

#MSIgniteTheTour



# /微软认证提醒

微软认证：  
Azure 基础

[aka.ms/AzureFunCert](https://aka.ms/AzureFunCert)

[aka.ms/AFUN95](https://aka.ms/AFUN95)



Get hired, stay ahead, and receive the  
recognition you deserve

#MSIgniteTheTour



*Microsoft Ignite The Tour* 参会者专属

## 免费认证考试

基础知识、基于角色的认证或专业认证\*



[aka.ms/FreeExam\\_MSIgnite](http://aka.ms/FreeExam_MSIgnite)

每位参会者限1项免费认证考试。需要遵守相关条款和条件。请访问网站了解详细信息。

\*免费认证考试仅限以下前缀：  
AI, AZ, DP, MB, MD, MS 和 PL

现在就是  
从同行中脱颖而出的机会。

获得认证，并向雇主和同行证明您的专业知识，  
并获得认可和机会。立即通过安排在线免费考试  
来利用此优惠。

详细了解微软认证：  
[Microsoft.com/Certifications](https://Microsoft.com/Certifications)

开始免费在线培训  
[Microsoft.com/Learn](https://Microsoft.com/Learn)

寻找学习伙伴帮助你做好准备  
[aka.ms/LearningPartner](https://aka.ms/LearningPartner)



# 参考资源

## 本课程参考资源

[aka.ms/AFUN95](http://aka.ms/AFUN95)

## 本课程 GitHub 代码库

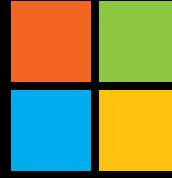
[aka.ms/AFUN95Repo](http://aka.ms/AFUN95Repo)

## 所有课程参考资源

[aka.ms/mymsignitethtour](http://aka.ms/mymsignitethtour)

## 获得认证

Azure 基础：[aka.ms/AzureFunCert](http://aka.ms/AzureFunCert)



# Microsoft Azure

---

Invent with purpose.