Building APIs Rapidly with Azure Functions



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Overview



Introducing Azure Functions

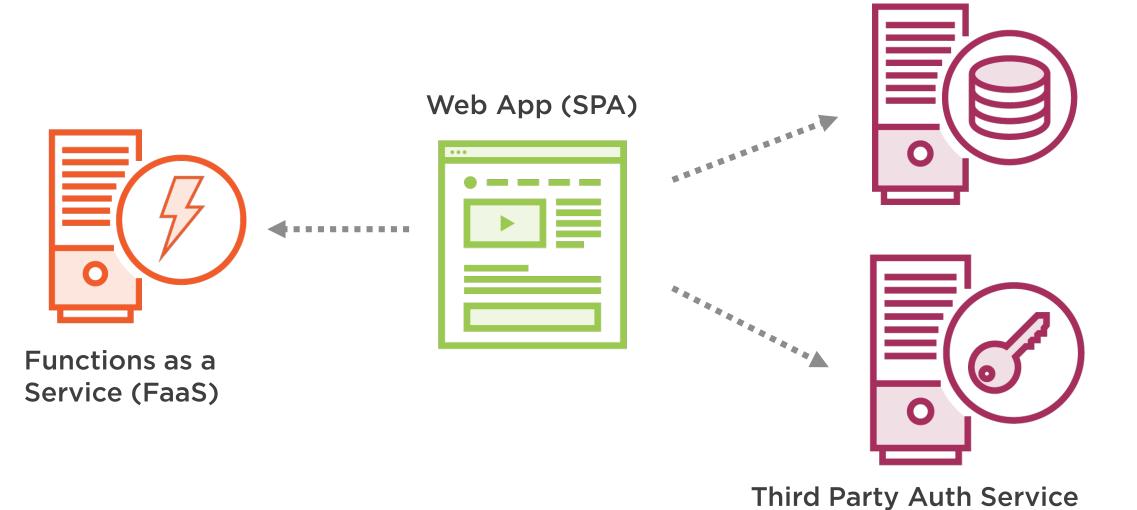
"Who's Playing" functions

- Create a new event
- Send invitation emails
- Get event details



A Serverless Architecture

Third Party Database Service





Azure Functions



Functions as a Service (FaaS)

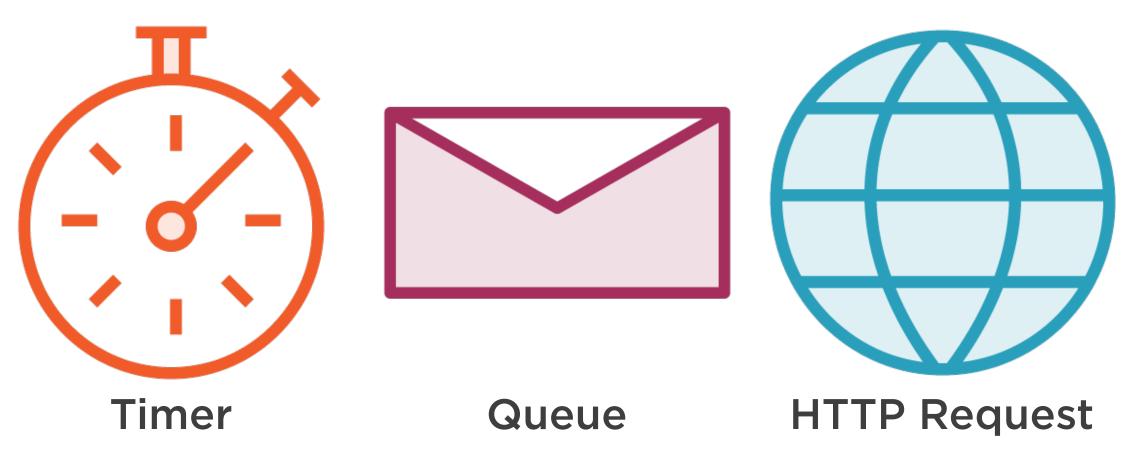
- You simply provide the function

Use your preferred language

- C#, JavaScript, F# and many more

Group functions into "Function Apps"

Azure Functions Triggers





Azure Functions



Bindings

- Integrate with queues, blob storage etc

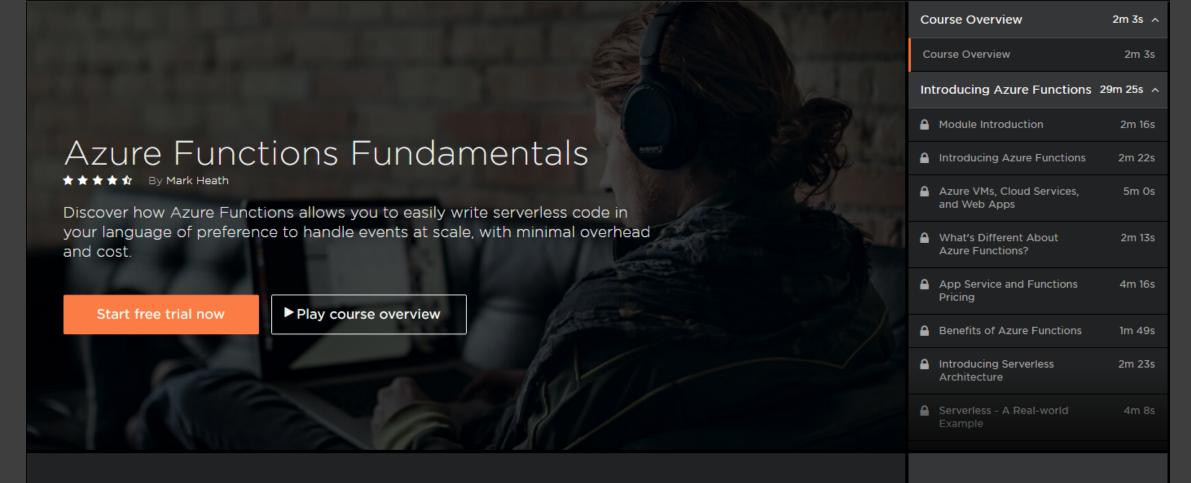
Automatic Scale

- Process queue messages in parallel

Pricing model

- No fixed monthly fee
- Pay for what you use
- Monthly free grant





Course info

Rating	★★★★☆ (44)
Level	Intermediate
Updated	January 28, 2017 🛱
Duration	3h 15m 🕓

Description

Azure Functions enables you to write serverless code to handle events at scale, with minimal overhead and cost. In this course, Azure Functions Fundamentals, you'll learn what Azure Functions is intended for, why you might want to use it, and you're going to see loads of demos of how simple it is to create your own functions. First, you'll learn how to work with both C# and JavaScript functions. Next, you'll use many different triggers and binding types supported by Azure functions including monitoring queues. Then, you'll explore how to work with blob storage, sending emails, and how to develop in Visual Studio or from the command line with a text editor, if you prefer. Finally, you'll discover how to automate deployments, as well as how to debug and monitor our functions. By the end of this course, you'll be ready to create, deploy, and manage your own Azure Functions applications.

Recommended



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WHITEPAPER

Five proven ways to motivate



Adding Functions to Our Application



Receive Email Invitation



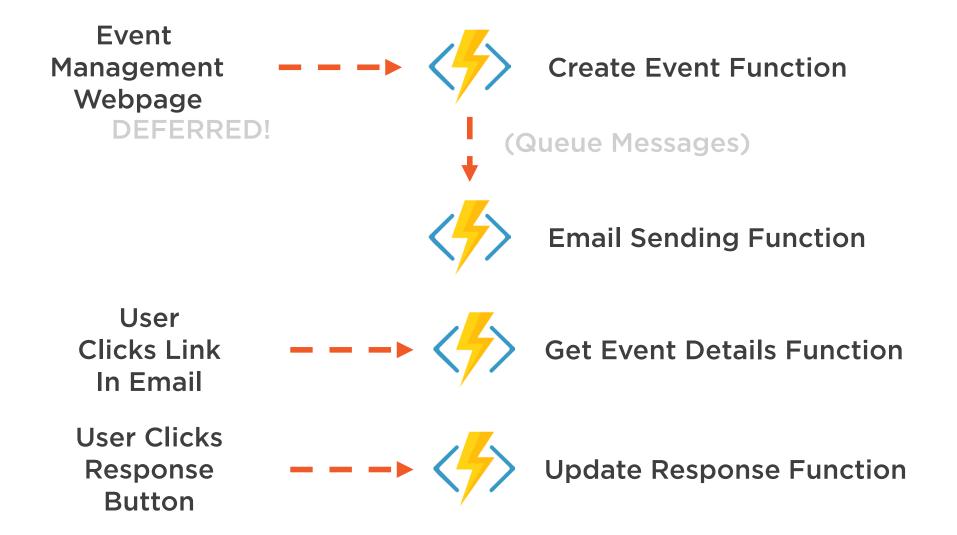
View Existing Responses



Submit My Response



What Functions Do We Need?





Function Security



No login required

- Email contains unique personalised token

Similar to "shared access signatures"

- Should be time limited
- Should be scope limited

There are other ways to secure our functions





Create an Azure Function app

- Create a storage account
- Choose a pricing model





Create Event Function

- HTTP Trigger
- Create a unique response code
- Post a message to a queue





Send Emails Function

- Queue trigger
- SendGrid output binding





Get Event Details Function

- HTTP triggered
- Return hard-coded JSON
- Set up a CORS rule



Summary



Azure Functions

- Rapidly implement backend API
- Code in the portal or locally

Create Event Function

- Generate unique response code
- Post queue messages

Send Invitations Function

- Send email with personalized link

Get Event Details Function

- Called by web page
- Configure CORS



We need a database!

