

# Creating a Function Locally and Publishing to Azure

---



**Jason Roberts**

.NET MVP

@robertsjason    dontcodetired.com



# Overview



An overview of Azure Function development in Visual Studio

Configuring HTTP triggers with attributes

Demo scenario overview

Add an HTTP-triggered function

Debug an Azure Function locally

Publish functions to Azure from Visual Studio

Test an HTTP function with Postman

Debug a published Azure Function from Visual Studio



# An Overview of Function Development in Visual Studio



# Configuring HTTP Triggers with Attributes

```
[FunctionName("MakeApplication")]  
  
public static async Task<HttpResponseMessage> Run(  
    [HttpTrigger(AuthorizationLevel.Anonymous,  
        "post",  
        Route = null)]HttpRequestMessage req,  
    TraceWriter log)  
{  
    // Function code ...  
}
```



# Configuring HTTP Triggers with Attributes

```
[HttpTrigger(AuthorizationLevel.Anonymous,  
            "post",  
            Route = null)]
```



# Configuring HTTP Triggers with Attributes

```
[HttpTrigger(AuthorizationLevel.Anonymous,  
            "post",  
            Route = null)]
```

AuthorizationLevel.Anonymous // No key required

AuthorizationLevel.Function // Individual function key

AuthorizationLevel.Admin // Function app key



# Configuring HTTP Triggers with Attributes

```
[HttpTrigger(AuthorizationLevel.Anonymous,  
             "post",  
             Route = null)]
```

Supported HTTP methods for the function

params string[]

"get"

"post", "put", "patch"

404 Not Found



# Configuring HTTP Triggers with Attributes

```
[FunctionName("MakeApplication")]
```

```
[HttpTrigger(AuthorizationLevel.Anonymous,  
             "post",  
             Route = null)]
```

Function route template (WebApi supported syntax)

Null defaults to function name

`http://localhost:7071/api/MakeApplication`

`Route = "Applications"`

`http://localhost:7071/api/Applications`





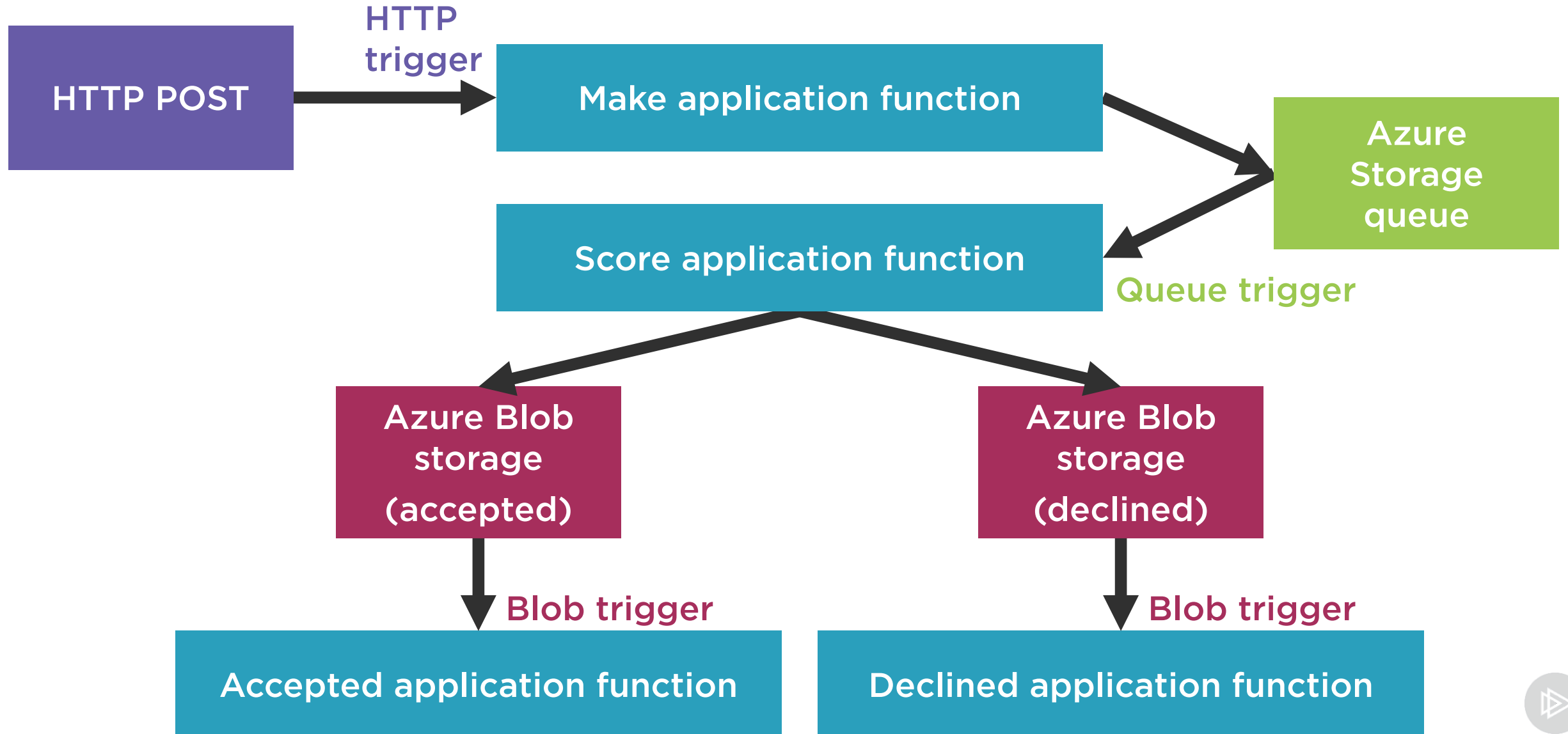
# Configuring HTTP Triggers with Attributes

```
public static async Task<HttpResponseMessage> Run(  
    [HttpTrigger(AuthorizationLevel.Function,  
        "get",  
        Route = "applications/{id}")]HttpRequestMessage req,  
    string id, 42  
    TraceWriter log) {...}
```

http://localhost:7071/api/applications/42



# Demo Scenario Overview



# Summary



**Overview of Azure Function development in Visual Studio**

**Configuring HTTP triggers with attributes**

- AuthorizationLevel.Anonymous
- Route = "applications/{id}"

**Demo scenario overview**

**Added an HTTP-triggered function**

- [FunctionName]
- [HttpTrigger]

**Debugging an Azure Function locally**

**Publish functions to Azure**

**Debug a published Azure Function**



Next:

Configuring Precompiled Functions to  
Work with Azure Storage

