Function:

Functions are the actual units of code that perform specific tasks or execute a piece of logic. They can be written in various programming languages, such as C#, JavaScript, Python, or PowerShell. Each function is designed to perform a specific action in response to a trigger.

Function App

Azure Function is a server less compute service that enables user to run event-triggered code without having to provision or manage infrastructure. Being as a trigger-based service, it runs a script or piece of code in response to a variety of events.

Triggers: Triggers define the events or conditions that initiate the execution of a function. Function Apps support a wide range of triggers, including HTTP requests, timers, message queues, file system changes, database updates, and more. Triggers provide the context and data necessary for a function to execute.

Types of Trigger

- **HTTP Trigger**-Trigger the execution of your code by using an HTTP request.
- **Timer Trigger**– Execute clean up or other batch tasks on a predefined schedule.
- **CosmosDB Trigger**-Process Azure Cosmos DB documents when they are added or updated in collections in a NoSQL database.
- **Blob Trigger**-Process Azure Storage blobs when they are added to containers. You might use this function for image resizing.
- **Queue Trigger**-Respond to messages as they arrive in an Azure Storage queue.
- **Event Grid Trigger**-Respond to events delivered to a subscription in Azure Event Grid. Supports a subscription-based model for receiving events, which includes filtering. A good solution for building event-based architectures.
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- **Event Hub Trigger**-Respond to events delivered to an Azure Event Hub. Particularly useful in application instrumentation, user experience or workflow processing, and internet-of-things (IoT) scenarios.

- **Service Bus Queue Trigger**-Connect your code to other Azure services or on-premises services by listening to message queues.
- **ServiceBus Topic Trigger**-Connect your code to other Azure services or on-premises services by subscribing to topics.

<u>Azure Functions Advantages</u>

Pay as you go model

Support variety of language

Easy Integration with other Azure services

Trigger based executions