**AZURE FUNCTIONS :**Azure provide following azure functions :

* **HTTP trigger**
* **Timer trigger**
* **Queue trigger**
* **Blob trigger**
* **Event grid trigger**
* **Event Hub trigger**
* **IOT hub trigger**
* **Service bus queue trigger**
* **Service bus topic trigger**
* **Durable Function**
* **Cosmos DB trigger**
* **Send grid**

**HTTP Trigger:**

These are the triggers which can be invoke with an http request. We can use http trigger to build server less API’s and respond to webhooks.

Default return types :

1. 204 No content
2. 200 with body

In Http trigger we can set authorization level. There is three authorization level :

1. Anonymous: No API key is required.
2. Function: function specific API key required.
3. Admin: Master key required.

In Http trigger we can define custom route and we can add route prefixes in host.json file.  
{

http: {

routePrefix: “api/v1”

}

}

**TIMER trigger:**

By using timer trigger we can create CRON job which will run after certain interval of time.

Here is some time expressions :

0 \* \* \* \* \* Every minute

0 \*/2 \* \* \* \* Every 2 minute

\*/1 \* \* \* \* \* Every Second

0 0 \* \* \* \* Every hour

0 0 0 \* \* \* Every day

0 30 11 \* \* \* Every day 11:30:00

0 0 5-10 \* \* \* Every hour 5 to 10

0 0 0 \* \* SAT Every Saturday

0 0 0 \* \* 6 Every Saturday

0 0 0 \* \* 1-5 Mon-Fri

0 0 0 \* \* SAT,SUN Saturday and Sunday

0 0 0 1 1 \* Every Year 1st JAN

0 0 0 1-7 \* SAT Every first Saturday of month at 00:00:00

**QUEUE trigger:**

Time to process the message received in the queue. To achieve that will create a queue trigger.

**BLOB trigger:**

Used to upload file or image.

**EVENT GRID Trigger:**

It is an azure service that sends HTTP request to notify you about events that happens in publishers.

For e.g:  
blob storage account is a publisher and a blob upload is an event.

Event handler receive and process events. Event grid is invoke a function when an event is received from Event grid.

**EVENTS HUB Trigger:**Use the function trigger to respond to an event sent to an event hub event stream.

Scaling: Each instance of an event triggered function is backed by single Event Process Host instance.

The trigger ensures that only one instance can get a ease on given Partition.

**IOT HUB Trigger:**IOT HUB is started receiving the message from the device and we can use our Azure function to pull that data from the IOT Hub with the help of IOT HUB trigger.

**SERVICE BUS QUEUE Trigger:**

This will execute the code in function each time a message is added in service bus.

**DURABLE Function:**

By using we can write stateful workflows in new function type.

**SEND GRID:**Cloud base email service that provides reliable transactional email delivery