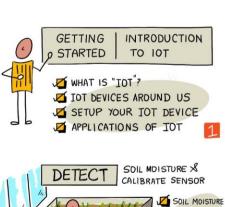
### loT for Beginners

#### AKA.MS/IOT-BEGINNERS

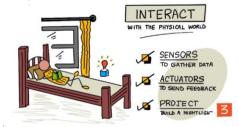


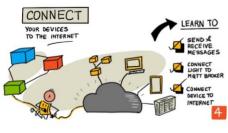






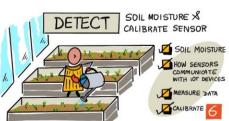
A DEEPER DIVE





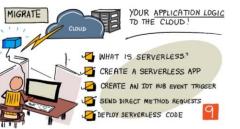


KEEP YOUR PLANT SECURE













CERTIFICATE



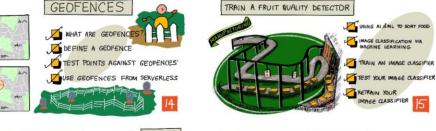


DECODE GPS SENSOR DATA

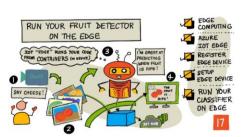
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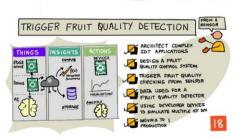


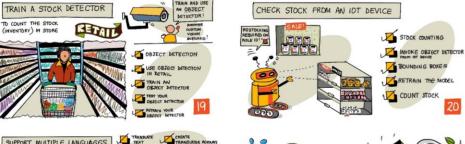


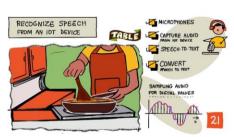






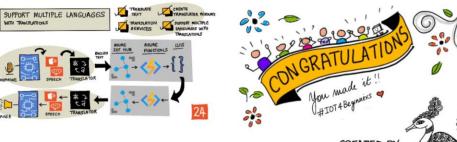








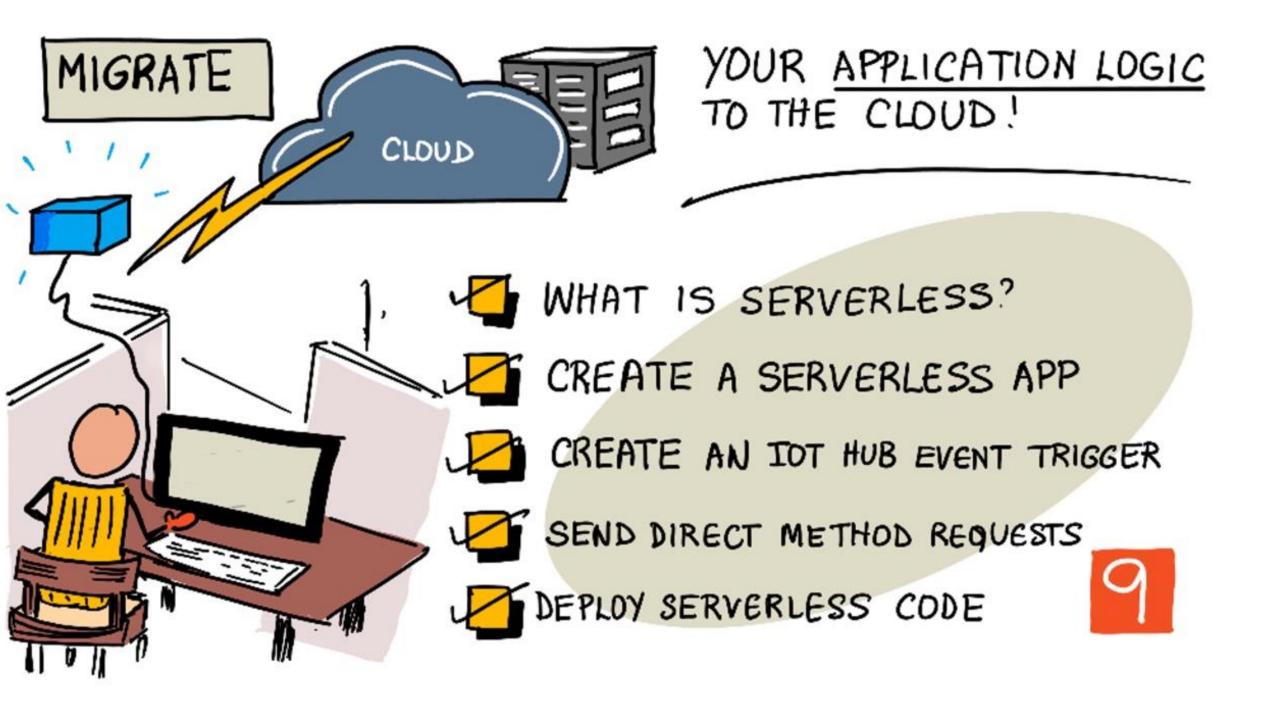






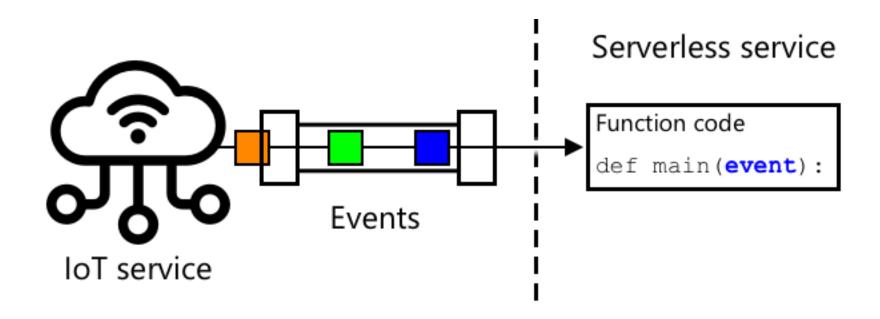


#### AKA.MS/IOT-BEGINNERS-KITS



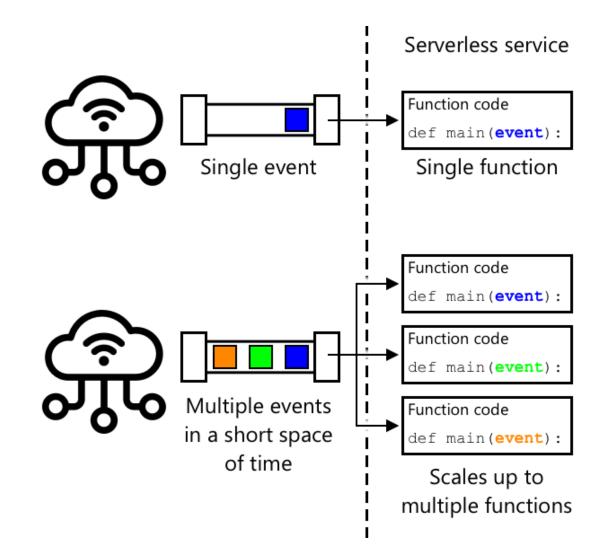
#### WHAT IS SERVERLESS?

- The biggest lie in cloud computing there is a server!
- Serverless means you don't care about servers
- Small blocks of code that are run in the cloud in response to events



#### WHAT IS SERVERLESS?

- Serverless because managing where the code is run is handled by the cloud
- Scales up and down automatically depending on need



#### SERVERLESS FOR IOT

- IoT telemetry is events sent by a device
- If you need to run code to respond to this telemetry, serverless is ideal
- Code is only run, and you only pay when a device sends data
- Can store events if the function app is offline and process them when it starts up

#### **AZURE FUNCTIONS**

• The serverless offering from Azure

 Write your event code in Python, JavaScript, typescript, C#, F#, Java, PowerShell or any language using an extension host

• Functions needs some storage for tracking



## DEMO: CREATE AN AZURE FUNCTION

Launch Azurite

Create an Azure Functions project

Create an event trigger

Run the event trigger

# DEMO: CONTROL THE DEVICE FROM AN AZURE FUNCTION

Connect to the registry manager Send a direct method request

## DEMO: DEPLOY THE FUNCTIONS APP TO THE CLOUD

Create cloud resources

Upload application settings

Deploy the functions app