Connect
Edge devices
to the cloud
with Etisalat
IoT Platform







About The Assembly



- A Smart Lab & makerspace based out of in5 since 2014
- Almost 300 Free workshops done
- Assembly: HACK Embedded systems, IoT, hardware
- Assembly: CODE Software APIs, frameworks, apps
- Assembly: Data Science Advanced topics in AI/ML
- Audience Students | Professionals | Entrepreneurs
- Focus on Smart Technology & Practical Applications
- members.theassembly.ae
 @makesmartthings

The Internet Of Things

FUTURE NOW

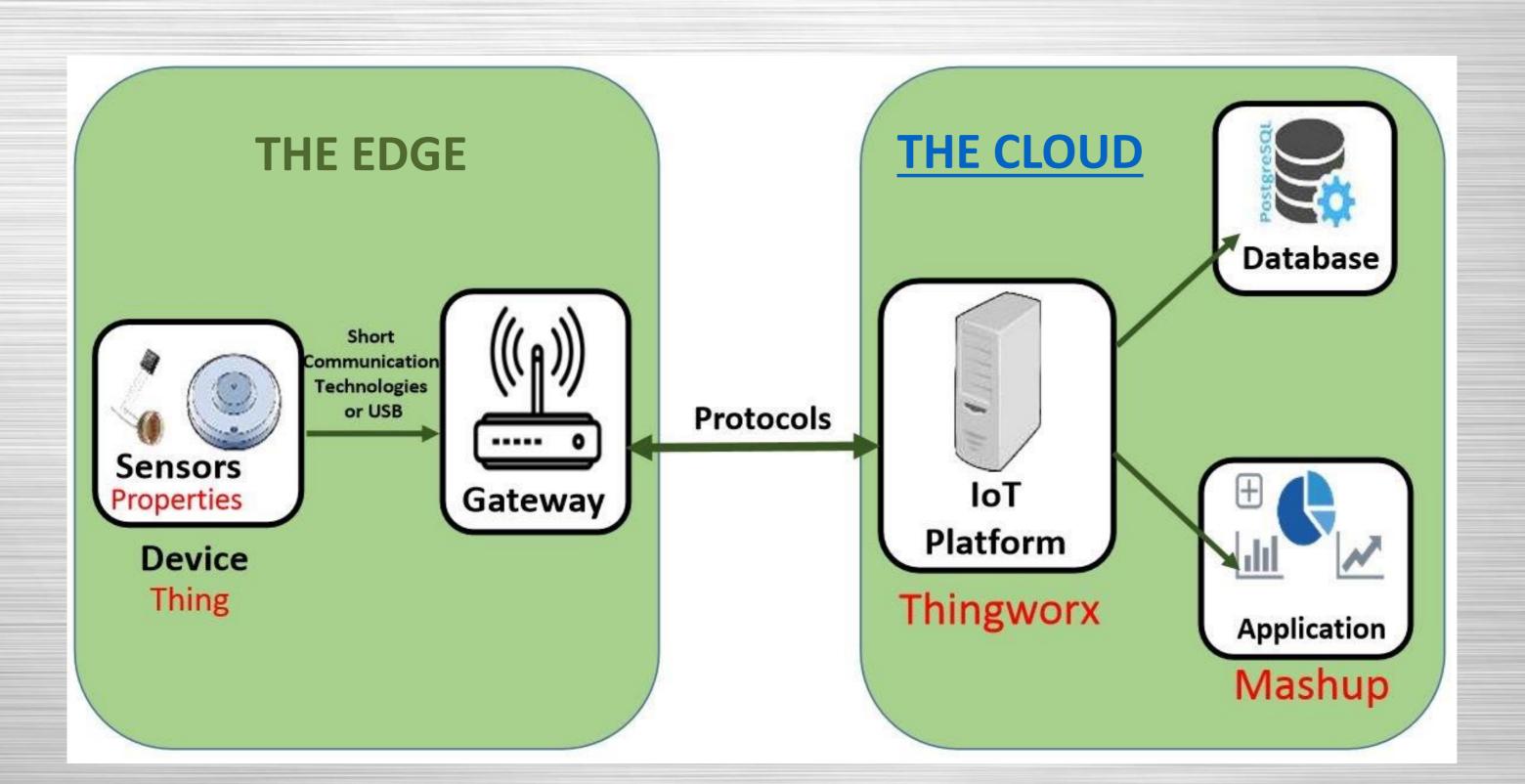
etisalat odigital

- The network of physical objects that can exchange data for value
- Smart Connected Products (SCPs) can:
 - Monitor
 - Control
 - Optimize
 - Automate



What Is 'The Edge'?





Connecting To The Cloud From The Edge



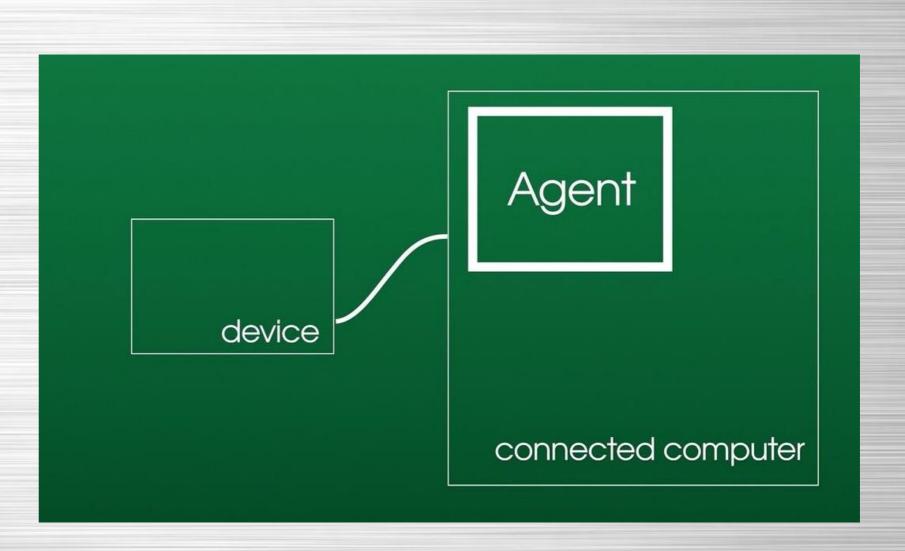
- REST API using HTTP Requests
 - 1 Way from Edge To Cloud
 - Requires code
- Edge SDKs (C/Java/JavaScript/Android/IoS)
 - Uses AlwaysOn 2 way
 - Requires code
- Edge Agents
 - Uses AlwaysOn 2 way
 - Readymade software

Read More About Connectivity

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Edge Agents

- Middleware to monitor data from / control device(s)
- Can be used to:
 - Change configs
 - Update firmware
 - Optimize procedures
- Kepware
- AlwaysOn/WebSockets



Edge Micro Server





- Out of the box agent with ThingWorx EMS can:
 - Bind remote things on cloud to virtual things on edge
 - Maintain AlwaysOn duplex connection with cloud
 - Act as HTTP proxy on edge network
 - Enable File Transfer & Tunneling

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LUA Script Resource

- EMS only connects does not manage remote properties, events or services
- LUA Script Resource acts as process manager
- Can be on same machine as EMS



SENSOR 1

5 FREQUENCY BANDS

ENGINE Thing

SENSOR 2

5 FREQUENCY BANDS