**AWS IoT Core MQTT Demo**

In today’s class we’ll go through the process of creating a FreeRTOS-based project for an MQTT demonstration that publishes data from the ST Micro IoT Discovery board to the AWS cloud via WiFi.

There are many potential pitfalls along the way, so it will be helpful to have the recording of this session while you go through the steps with your own board and AWS account.

To get a better understanding of MQTT, read the first five parts of this ten-part tutorial on MQTT Essentials at:  
  
 <https://www.hivemq.com/mqtt-essentials/>

Quiz 7 on Wednesday will have questions regarding these MQTT topics (pardon the pun, which you’ll understand after reading the tutorial):

* Why MQTT is well suited for IoT devices
* The publish/subscribe (pub/sub) model, the role of the broker, decoupling
* How MQTT differs from a message queue
* The MQTT connection, clients, and the broker
* The Last Will and Testament (LWT) feature
* Publishing, subscribing, and unsubscribing essentials
* Topics and message filtering

**Class Notes**