



## Lower level programming for the Internet of Things



Up to now the course has used the NodeRED rapid application development environment. This unit looks at how to program for the Internet of Things platform using more traditional programming environments

### Watson IoT APIs

[Start Lesson](#)

▶ IoT platform APIs 3 min

▶ SenseHAT python API 4 min

🔒 **Programming Assignment:** SenseHAT python API 3h

📖 Learning module summary: Watson IoT APIs 10 min

### MQTT

▶ MQTT 5 min








🔒 **Quiz:** MQTT in Watson IoT Platform 5 questions

📖 MQTT Exercise 10 min


📖 You reached the end of this learning module. You are now able to: 10 min

### Deploying Applications to Bluemix

▶ Deploying an application to Bluemix part 1 6 min

-  Application development for Bluemix - basic server step by step 10 min
  -  Deploying an application to Bluemix part 2 6 min
  -  Application development for Bluemix - deploy to Bluemix step by step 10 min
  -  Deploying an application to Bluemix part 3 6 min
  -  Application development for Bluemix - accessing services step by step 10 min
  -  **Programming Assignment:** Using the IoT APIs in a Bluemix application 3h
  -  Learning module summary: Deploying Applications to Bluemix 10 min
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## Wrap up

-  Course summary 2 min

Upcoming session:

July 11 - August 14

Enrollment ends July 16

Enrolled

Following session begins July 25