

IT301 μ From IoT Devices to the Cloud with the IBM Node-RED Tool

Mission 2: Designing an IoT application with Node-RED

This assessment evaluates the following competencies:

- *IT101 – Understand the event-driven programming model* (+2)
- *IT301 – Design a dashboard showing the value of a hardware sensor* (+1)

In this mission, you have to think about an IoT application and propose a high-level architecture for this application. You can assume that you have a Node-RED application running on a Raspberry Pi or a BeagleBone Black that is connected to the Internet. Your application can includes sensors, other boards such as Arduino, cloud services, etc. To succeed the mission, you have to:

1. Draw a high-level block diagrams with the components of your application and the communication links between them.
2. Think about what will the Node-RED program do and explain it to the teacher.

Please note that you do not have to implement anything, but just think about a design for an IoT application and propose a high-level architecture for it.