Programming Assignment: QuickStart flow on Raspberry Pi

Assignment goals

In this assignment you will publish the CPU temperature from your raspberry pi to the Watson IoT Platform quickstart service. You will use NodeRED as the runtime to create a flow the get the CPU temperature using the vcgencmd and publish the temperature in the appropriate format to the quickstart service.

How to complete the assignment

The flow should get the CPU temperature use the command: vcgencmd measure\_temp every 5 seconds.

Quick Link: <https://elinux.org/RPI_vcgencmd_usage/>

Publish the data using the message format {"d" : {"temp" : <CPU temperature>}}. The value returned from the vcgencmd should replace <CPU temperature> and should be a number not a string in the object published to the Watson IoT Cloud.

An example message where the value from the vcgencmd is temp=39.7'C is {"d”: {"temp":39.7}}