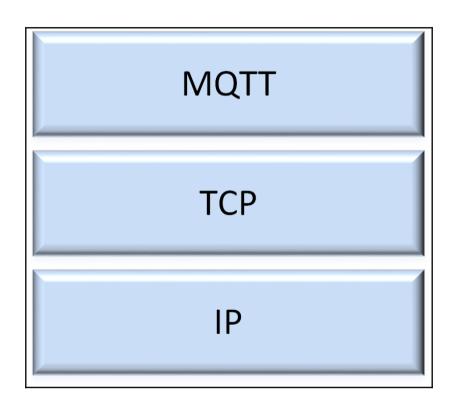
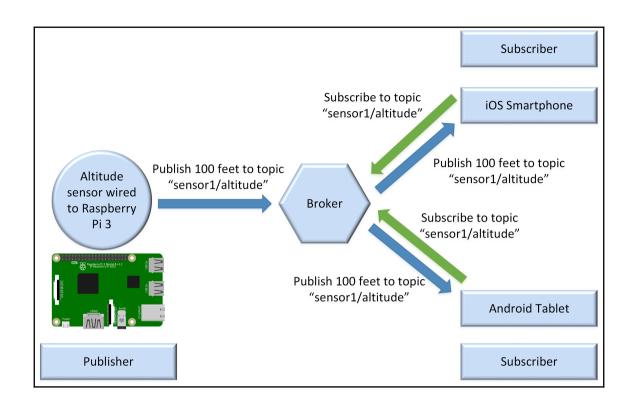
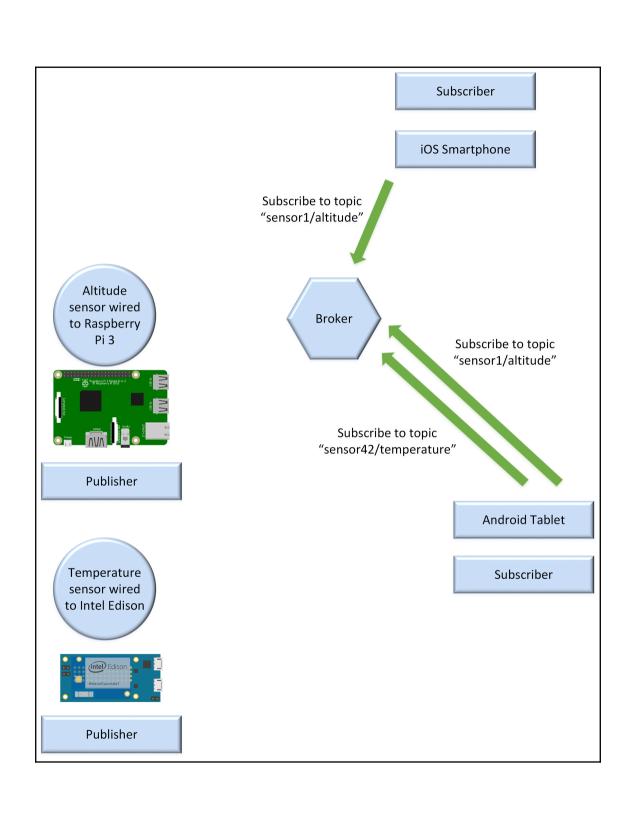
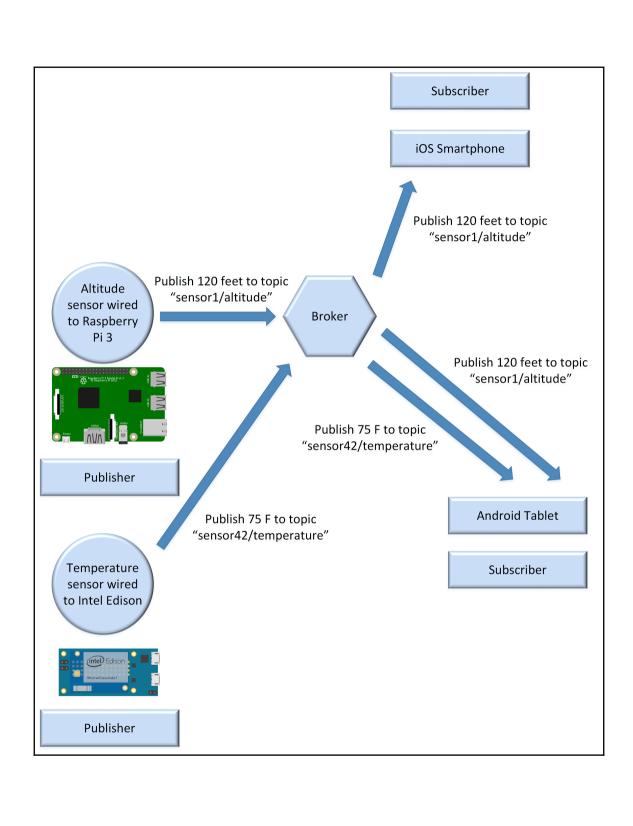
Appendix

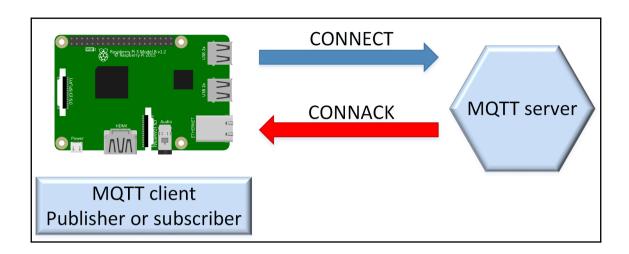
Chapter 1: Lightweight Messaging with MQTT 3.1.1 and Mosquitto

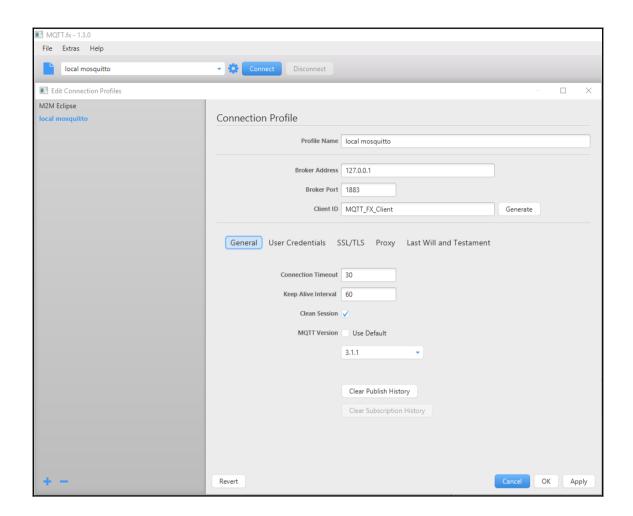


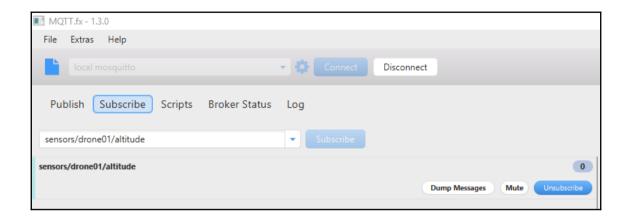


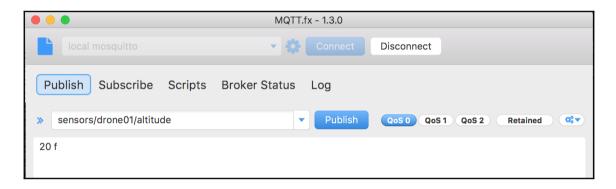


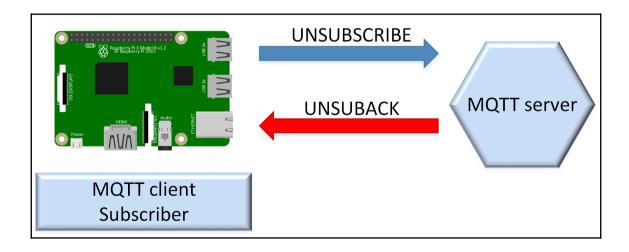


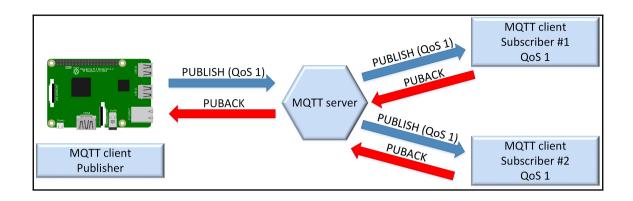


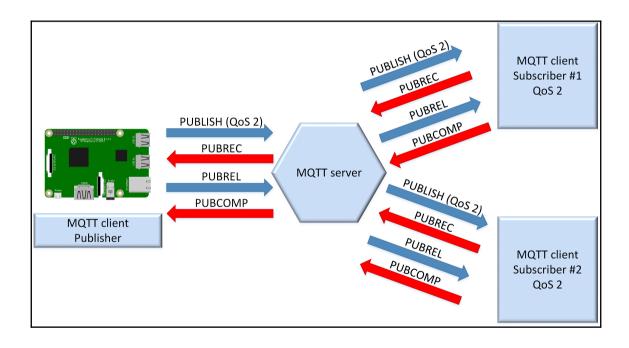




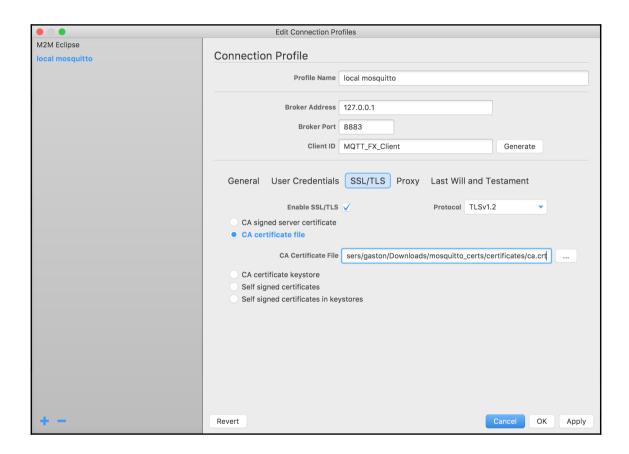


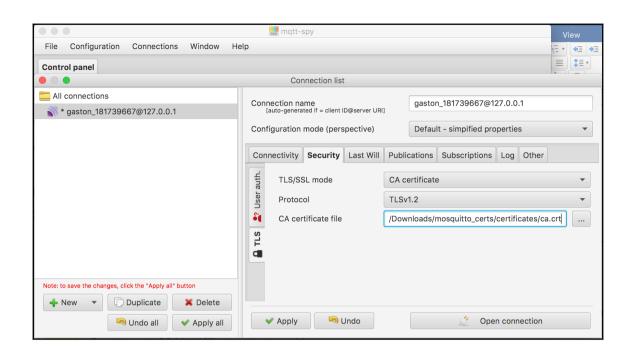


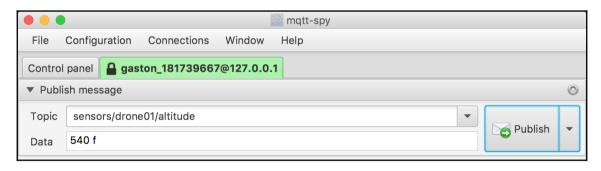


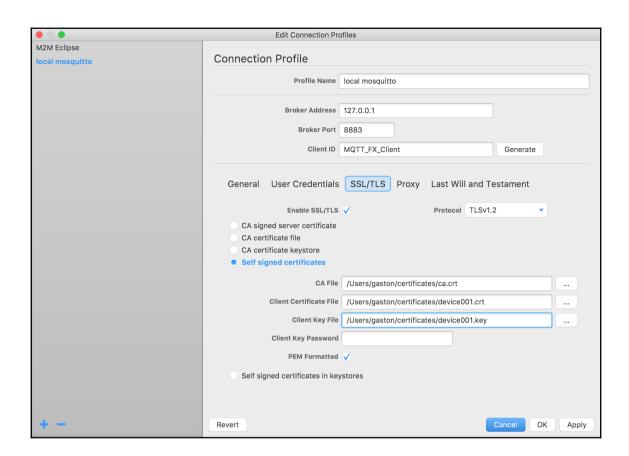


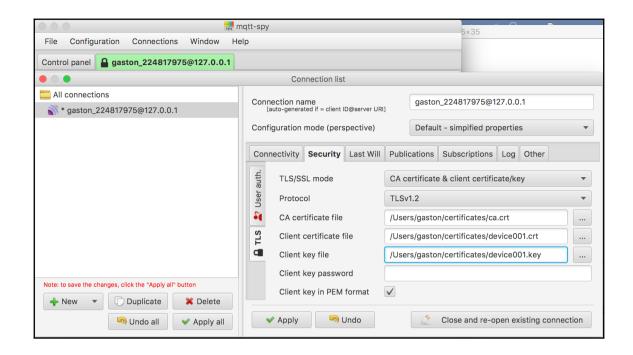
Chapter 2: Securing an MQTT Mosquitto Server





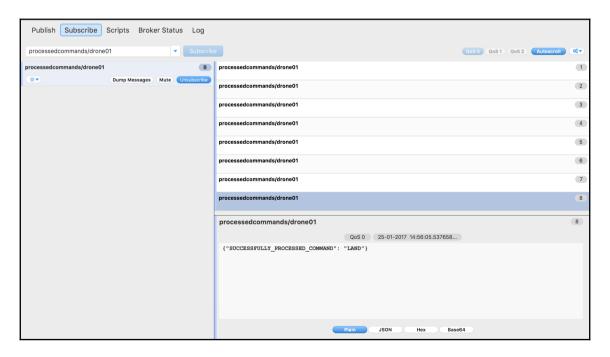


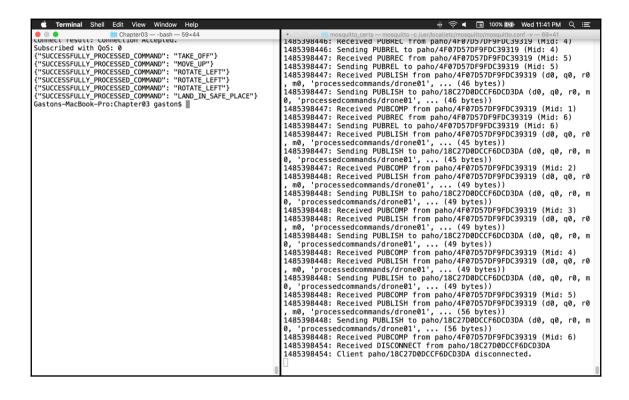


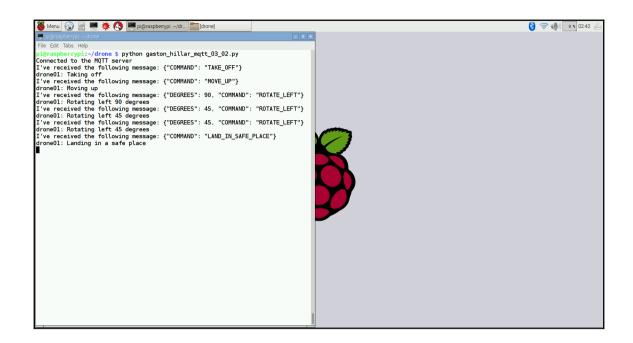


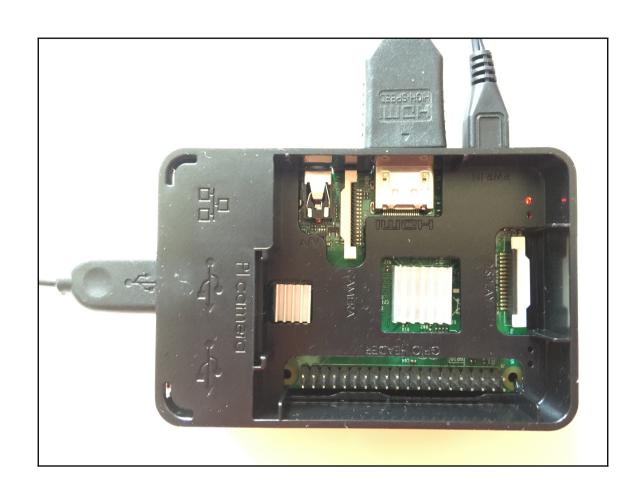
Chapter 3: Controlling a Drone with Python



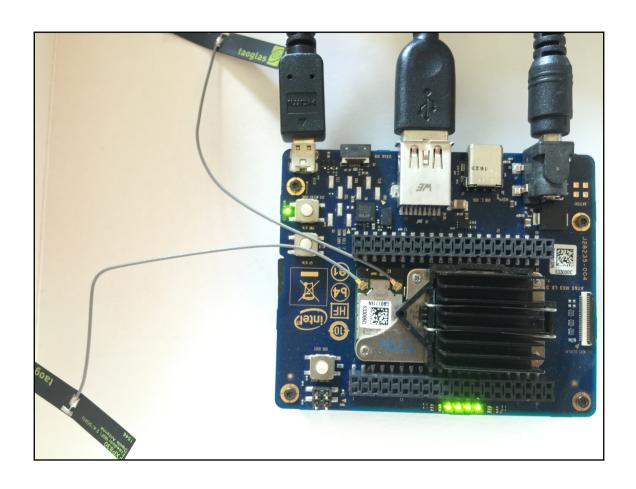




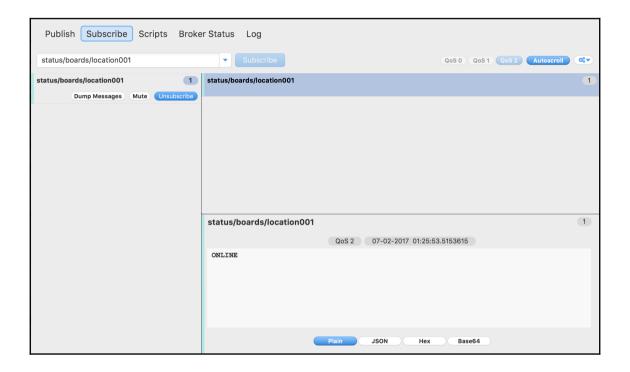


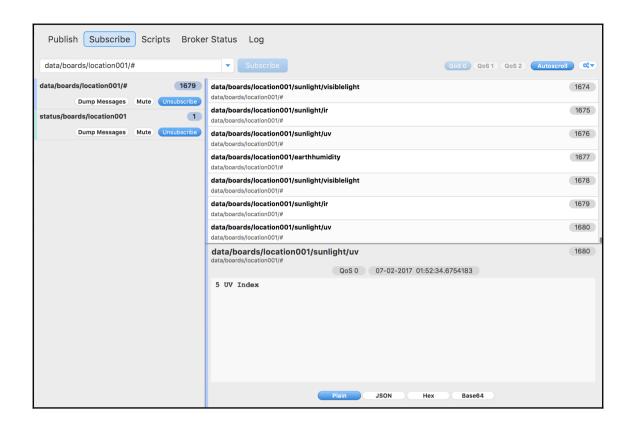


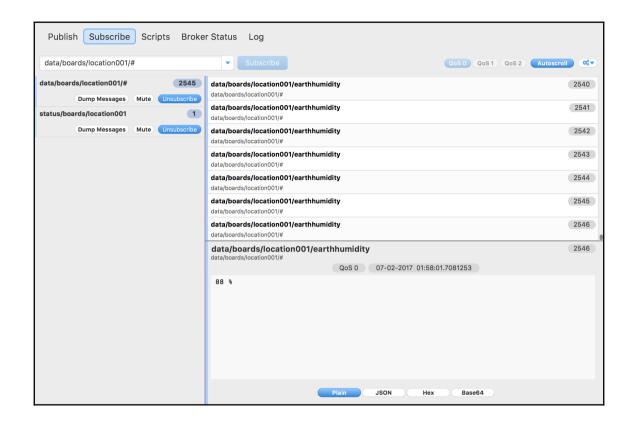
```
🕆 gaston — ssh root@192.168.1.108 — 79×21
                                                                                               485447731: Received PUBLISH from paho/7817AFDF6D4F497A7
                                                                                               (d0, q0, r0, m0, 'processedcommands/drone01', ... (45
                                                                                               ytes))
485447731: Sending PUBLISH to paho/77092268D99945D328 (
root@intel-corei7-64:~/drone# echo 'Running code on Intel Joule board'
                                                                                              0, q0, r0, m0, 'processedcommands/drone01', ... (45 byt s))
Running code on Intel Joule board
root@intel-corei7-64:~/drone# python gaston hillar mgtt 03 02.py
                                                                                               485447731: Received PUBCOMP from paho/7817AFDF6D4F497A7
Connected to the MOTT server
                                                                                               (Mid: 2)
I've received the following message: {"COMMAND": "TAKE_OFF"}
                                                                                               485447732: Received PUBLISH from paho/7817AFDF6D4F497A7
drone01: Taking off
                                                                                               (d0, q0, r0, m0, 'processedcommands/drone01', ... (49
I've received the following message: {"COMMAND": "MOVE_UP"}
drone01: Moving up
                                                                                              485447732: Sending PUBLISH to paho/77092268D99945D328 (
10, q0, r0, m0, 'processedcommands/drone01', ... (49 byt
I've received the following message: {"DEGREES": 90, "COMMAND": "ROTATE LEFT"}
drone01: Rotating left 90 degrees
                                                                                               485447732: Received PUBCOMP from paho/7817AFDF6D4F497A7
I've received the following message: {"DEGREES": 45, "COMMAND": "ROTATE_LEFT"}
                                                                                               (Mid: 3)
                                                                                               485447732: Received PUBLISH from paho/7817AFDF6D4F497A7
drone01: Rotating left 45 degrees
                                                                                               (d0, q0, r0, m0, 'processedcommands/drone01', ... (49
I've received the following message: {"DEGREES": 45, "COMMAND": "ROTATE_LEFT"}
                                                                                              ytes))
485447732: Sending PUBLISH to paho/77092268D99945D328 (
drone01: Rotating left 45 degrees
I've received the following message: {"COMMAND": "LAND_IN_SAFE_PLACE"}
                                                                                              [0, q0, r0, m0, 'processedcommands/drone01', ... (49 byt
s))
drone01: Landing in a safe place
                                                                                               485447732: Received PUBCOMP from paho/7817AFDF6D4F497A7
                                                                                               (Mid: 4)
                                                                                               485447732: Received PUBLISH from paho/7817AFDF6D4F497A7
                                                                                             (d0, q0, r0, m0, 'processedcommands/drone01', ... (49 pytes))
Gastons-MacBook-Pro:chapter03 gaston$ python gaston_hillar_mqtt_03_03.py
                                                                                               485447732: Sending PUBLISH to paho/77092268D99945D328 (
Connect result: Connection Accepted.
                                                                                               0, q0, r0, m0, 'processedcommands/drone01', ... (49 byt
Subscribed with QoS: 0
                                                                                               485447732: Received PUBCOMP from paho/7817AFDF6D4F497A7
{"SUCCESSFULLY_PROCESSED_COMMAND": "TAKE_OFF"}
{"SUCCESSFULLY_PROCESSED_COMMAND": "MOVE_UP"}
                                                                                                (Mid: 5)
                                                                                               485447732: Received PUBLISH from paho/7817AFDF6D4F497A7
{"SUCCESSFULLY_PROCESSED_COMMAND": "ROTATE_LEFT"}
                                                                                                (d0, q0, r0, m0, 'processedcommands/drone01', ... (56
{"SUCCESSFULLY_PROCESSED_COMMAND": "ROTATE_LEFT"}
{"SUCCESSFULLY PROCESSED COMMAND": "ROTATE LEFT"}
                                                                                               485447732: Sending PUBLISH to paho/77092268D99945D328 (
{"SUCCESSFULLY_PROCESSED_COMMAND": "LAND_IN_SAFE_PLACE"}
                                                                                               0, q0, r0, m0, 'processedcommands/drone01', ... (56 byt
Gastons-MacBook-Pro:chapter03 gaston$
                                                                                               485447732: Received PUBCOMP from paho/7817AFDF6D4F497A7
                                                                                               485447737: Received DISCONNECT from paho/77092268D99945
                                                                                               485447737: Client paho/77092268D99945D328 disconnected.
```

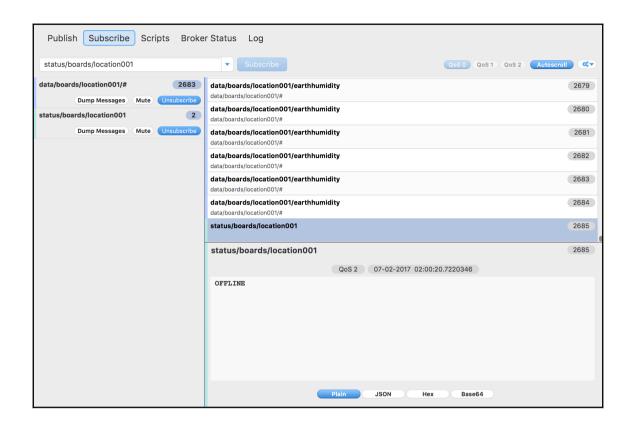


Chapter 4: Interacting with Sensors in Java

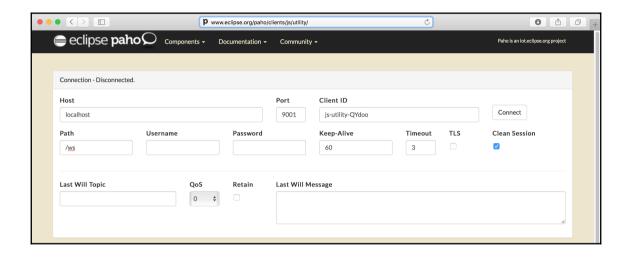


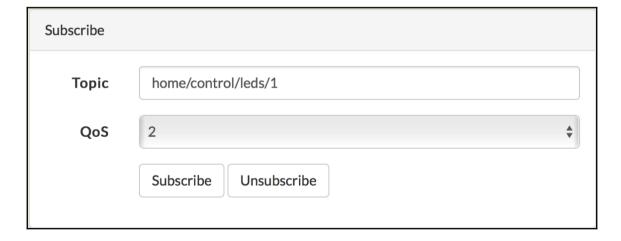






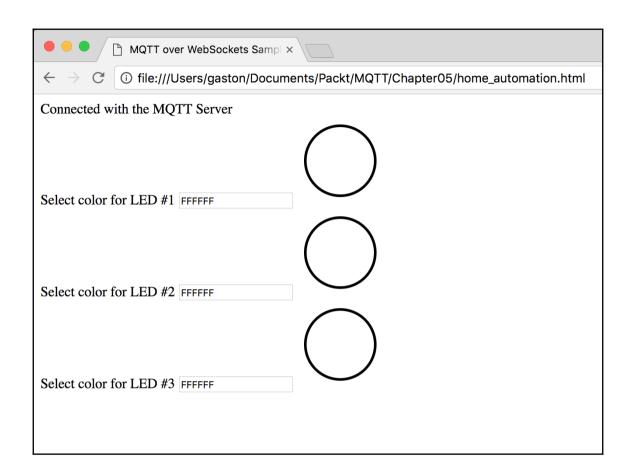
Chapter 5: Controlling Home Automation in JavaScript

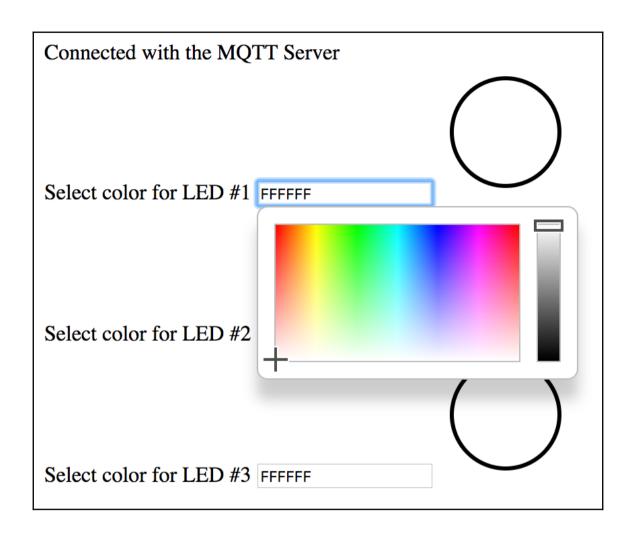


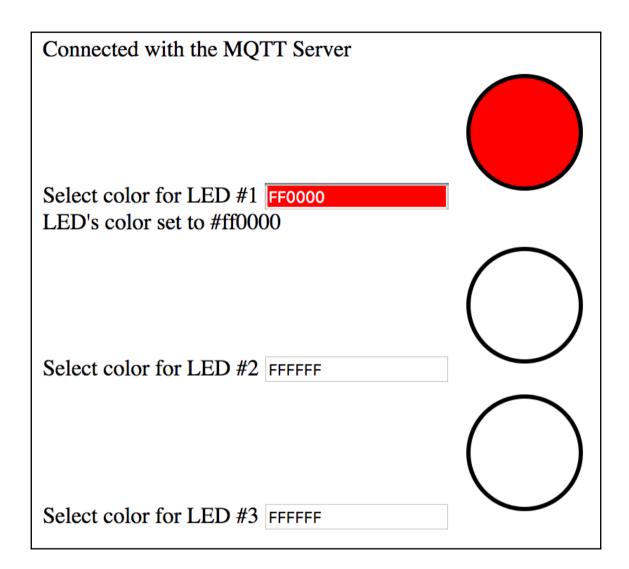




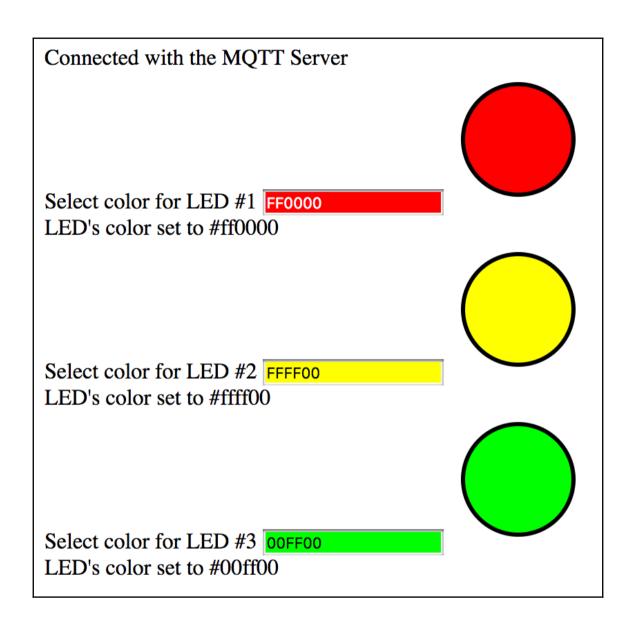


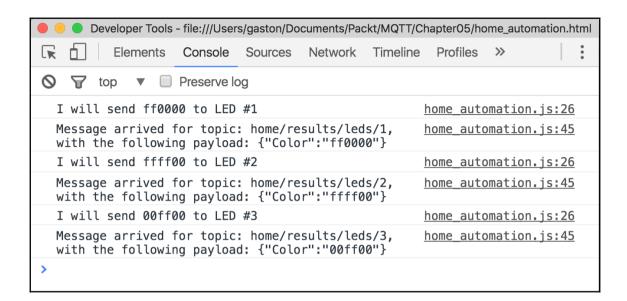




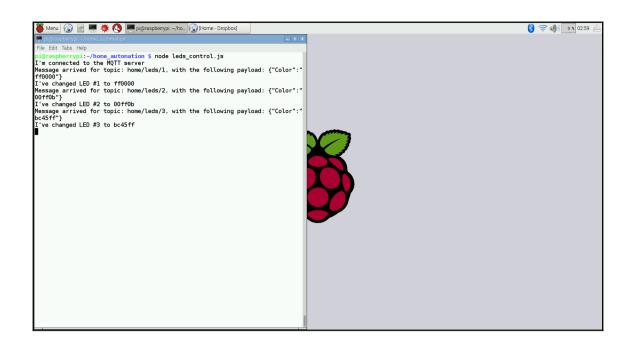


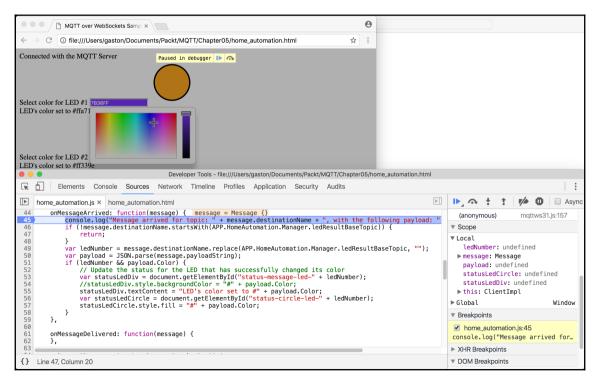




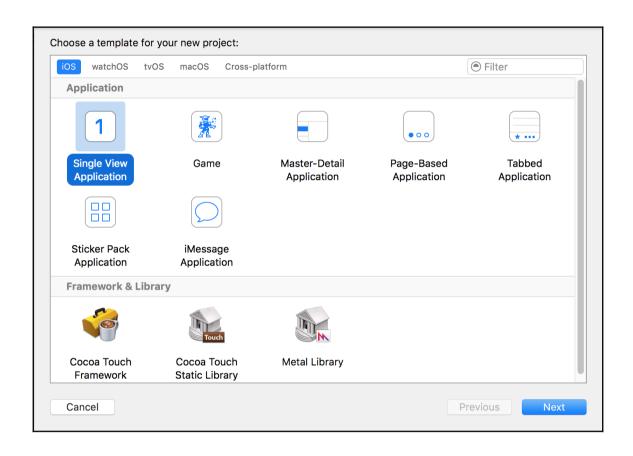




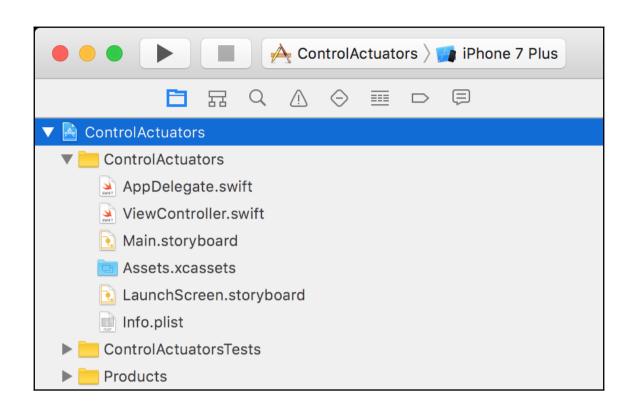


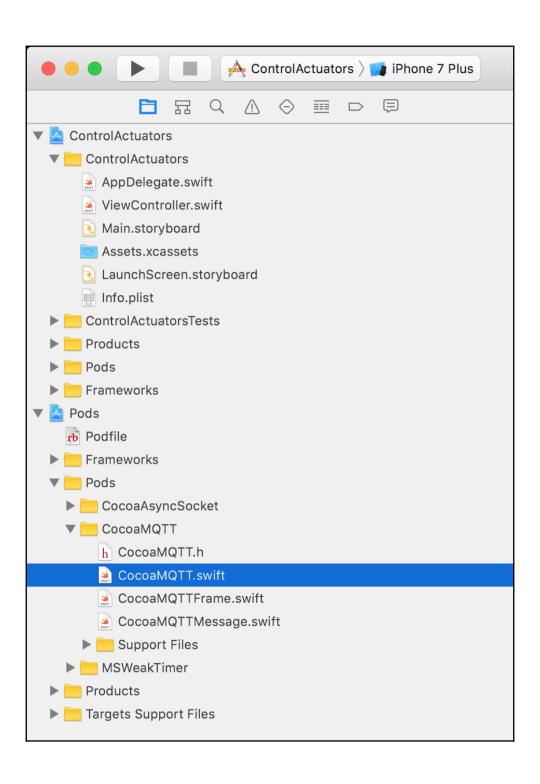


Chapter 6: Interacting with Actuators in Swift

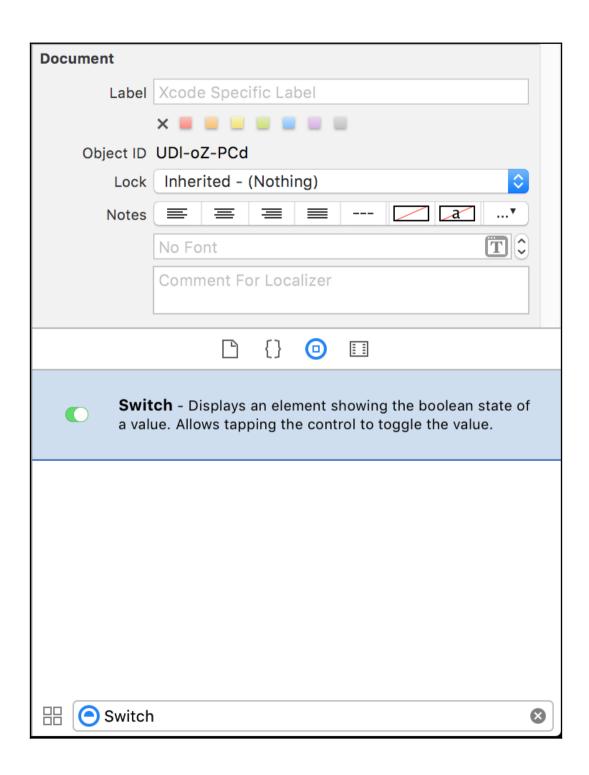


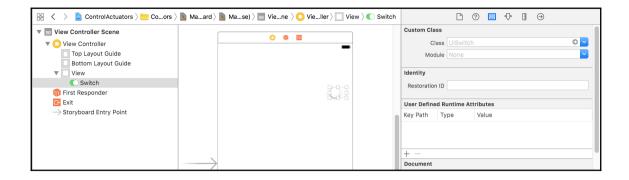
hoose options for your new project:			
Product Name:	ControlActuators		
Team:	Gaston Hillar (Personal Team)	\$	
Organization Name:	Packt		
Organization Identifier:	packtpub.com		
Bundle Identifier:	packtpub.com.ControlActuators		
Language:	Swift	\$	
Devices:	Universal	\$	
	Use Core Data		
	✓ Include Unit Tests		
	Include UI Tests		
Cancel		Previous	Next

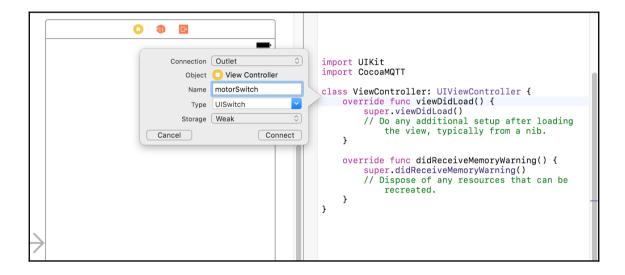


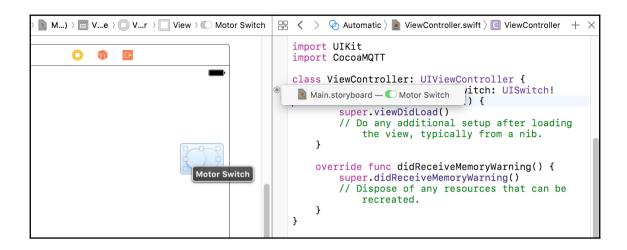














```
Connection Outlet
                                                                                 import UIKit
                         abel
                                                                                 import CocoaMQTT
                                               Object Oview Controller
                         Name statusLabel
                                                                                 class ViewController: UIViewController {
                                                                                      @IBOutlet weak var motorSwitch:
                                                Type UILabel
                                                                                      UISwitch!
override func viewDidLoad() {
                                              Storage Weak
                                                                                           super.viewDidLoad()
                                                                 Connect
                                      Cancel
                                                                                           // Do any additional setup after
loading the view, typically
from a nib.
                                                                                      }
                                                                                      override func
                                                                                           didReceiveMemoryWarning() {
                                                                                           super.didReceiveMemoryWarning()
// Dispose of any resources that
can be recreated.
```

