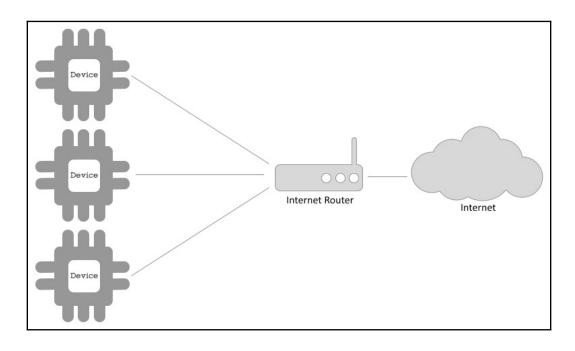
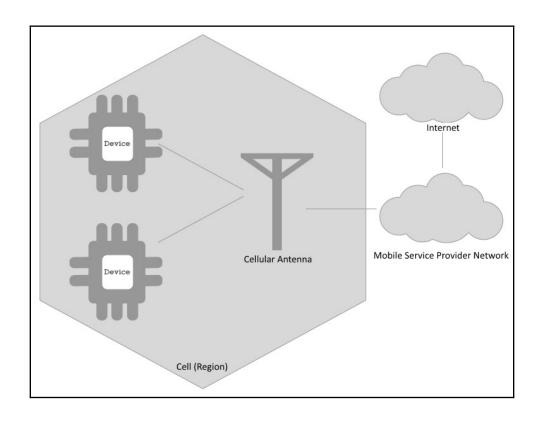
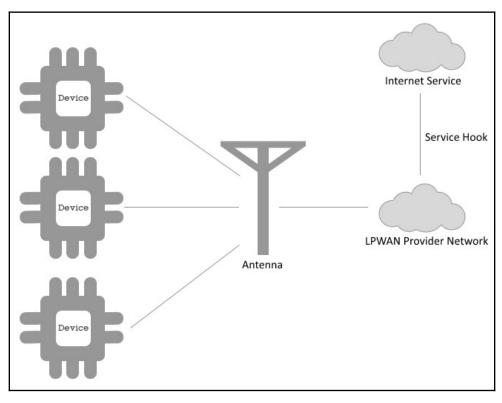
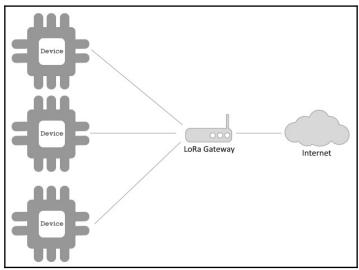
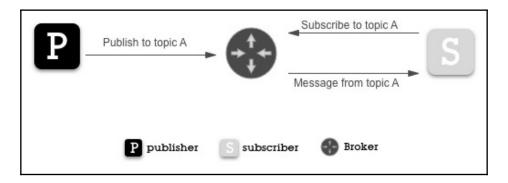
Chapter 1: Understanding IoT and Developing Devices on the IBM Watson IoT Platform

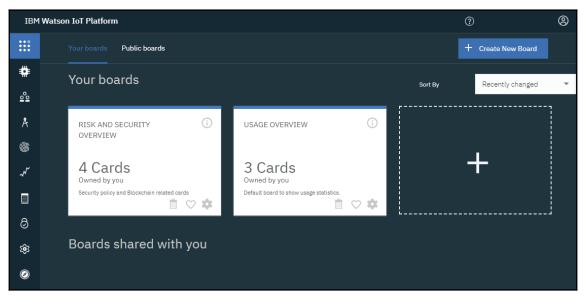




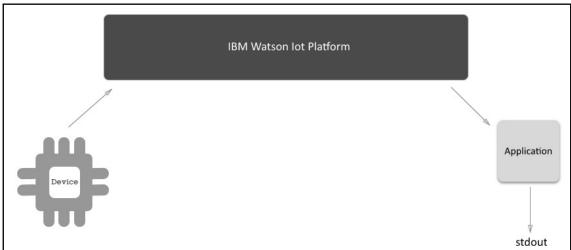


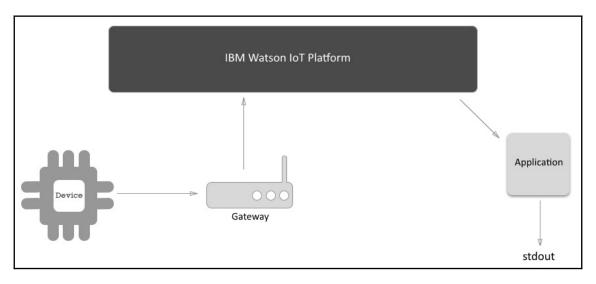


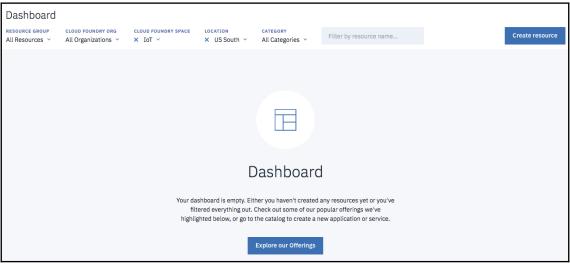


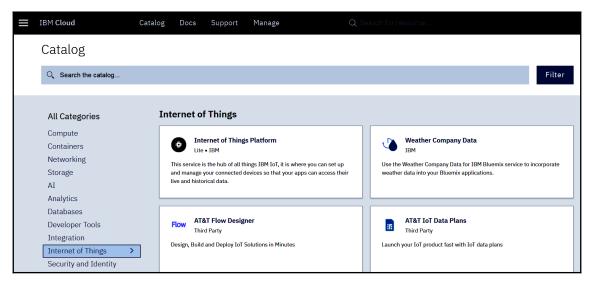


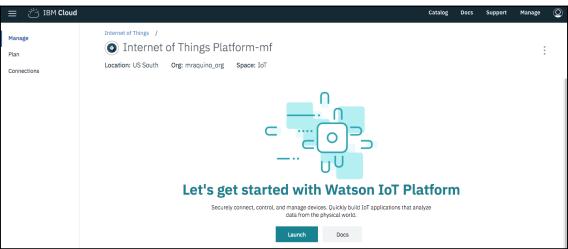


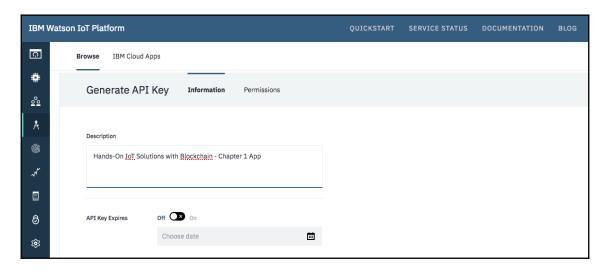


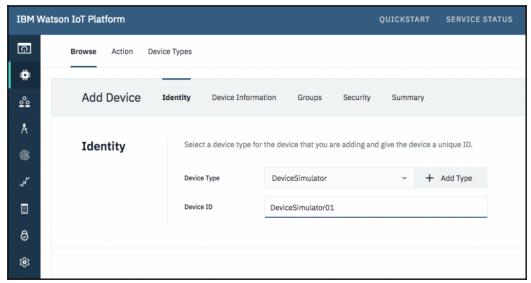


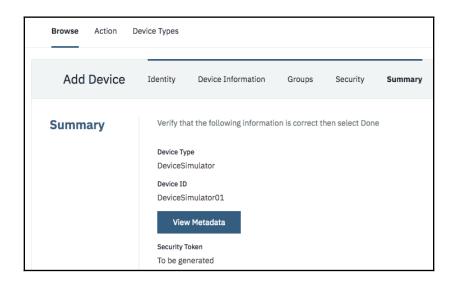




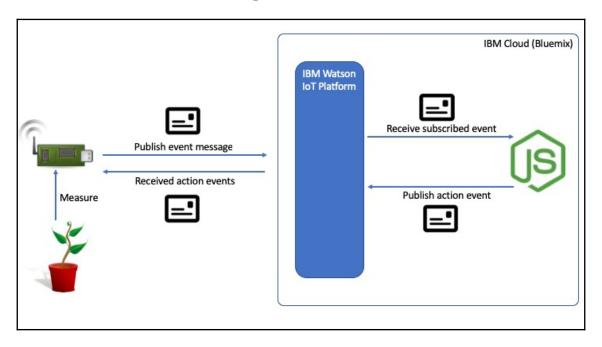


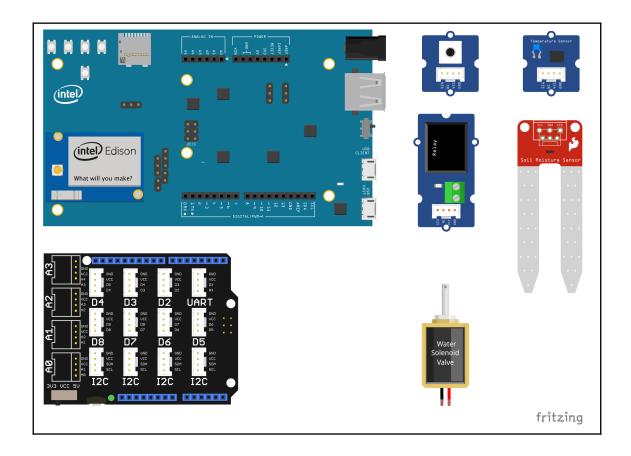


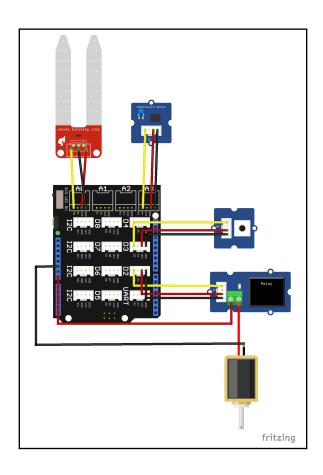




Chapter 2: Creating Your First IoT Solution





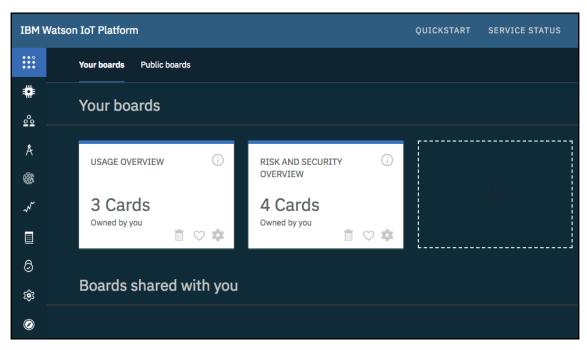


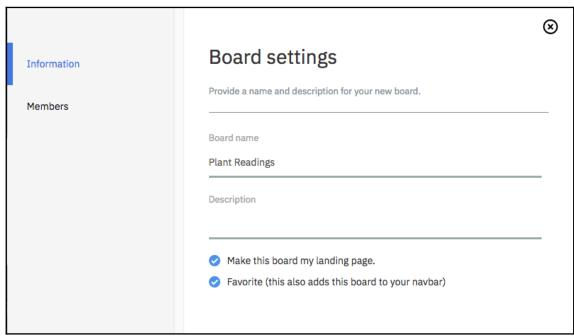
```
[root@edison-iot:~/iot# npm start
> iot@1.0.0 start /home/root/iot
> node .
Current moisture 256
Current moisture 307
Current moisture 302
Current moisture 303
Current moisture 299
Current moisture 298
Current moisture 304
Current moisture 301
Current moisture 306
Current moisture 301
Current moisture 305
Current moisture 305
Current moisture 301
Current moisture 302
Current moisture 304
Current moisture 305
Current moisture 300
```

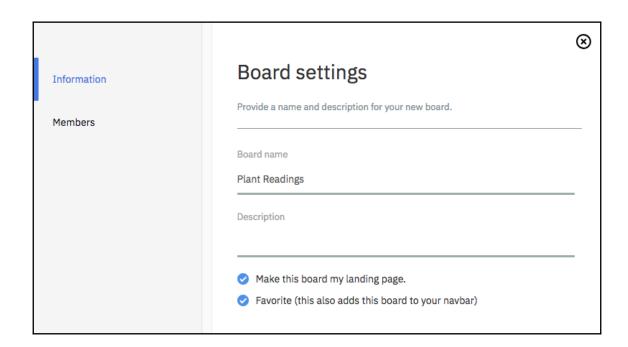
```
[root@edison-iot:~/iot# npm start

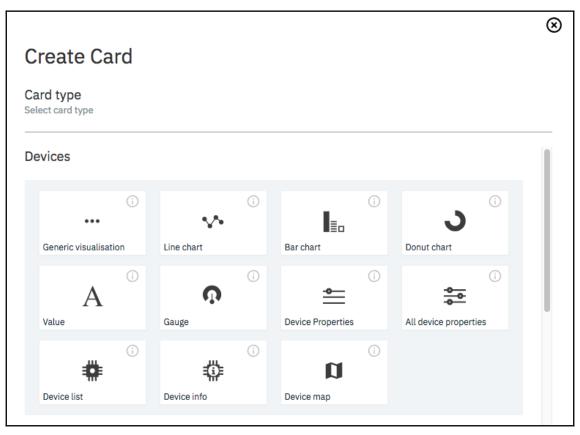
> iot@1.0.0 start /home/root/iot
> node .

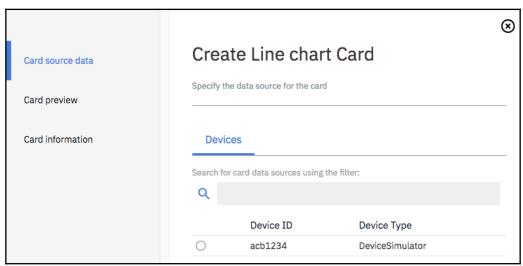
Current Temperature 11.675092536719035
Current Temperature 10.923006601697807
Current Temperature 11.006864299358028
Current Temperature 11.090646733903895
Current Temperature 11.425042046824103
Current Temperature 10.923006601697807
Current Temperature 11.090646733903895
Current Temperature 11.25798946566158
Current Temperature 11.425042046824103
```

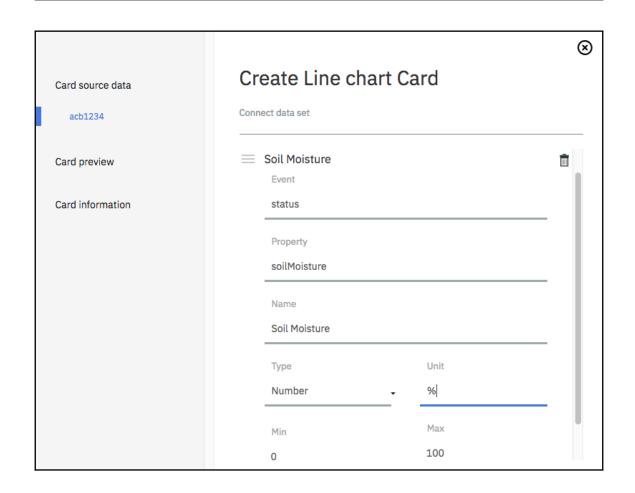


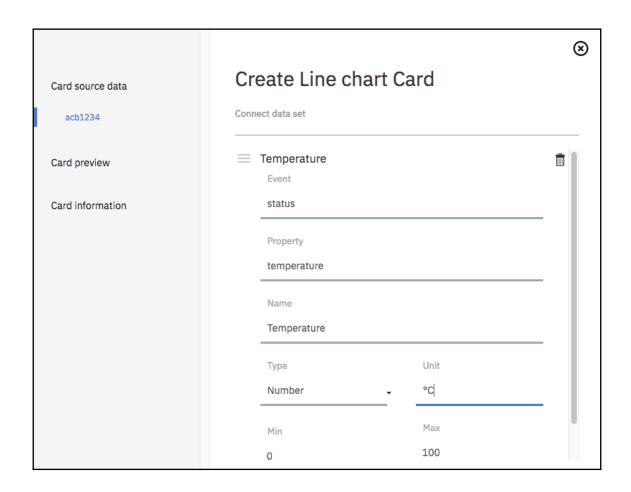


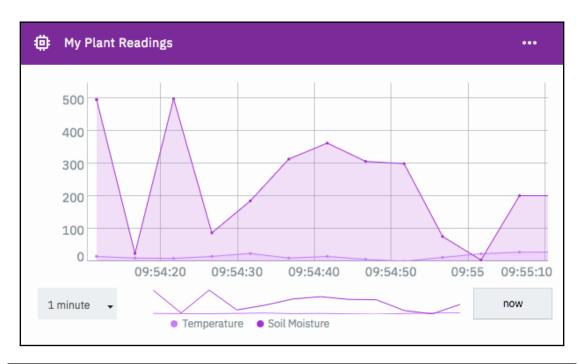


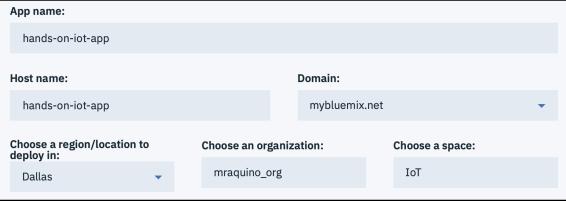


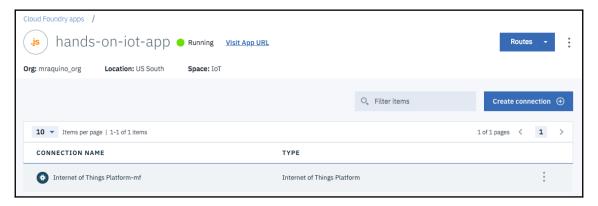


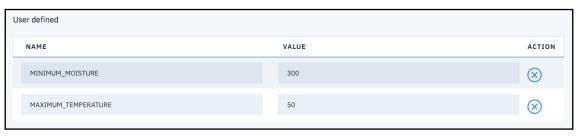












```
Waiting for app to start...
                    hands-on-iot-app
name:
requested state:
                    started
instances:
                    1/1
usage:
                    256M x 1 instances
routes:
                   hands-on-iot-app.mybluemix.net
                   Fri 29 Jun 15:04:15 -03 2018
last uploaded:
                   cflinuxfs2
stack:
                   SDK for Node.js(TM) (ibm-node.js-6.13.0, buildpack-v3.20.2-20180524-2057) ./vendor/initial_startup.rb
buildpack:
start command:
               since cpu 2018-06-29T18:06:02Z 0.0%
     state
                                                memory disk
71.5M of 256M 86.1M of 1G
                                                                  disk
                                                                                 details
    running
```

```
Invoking "cf logs hands-on-iot-app'...

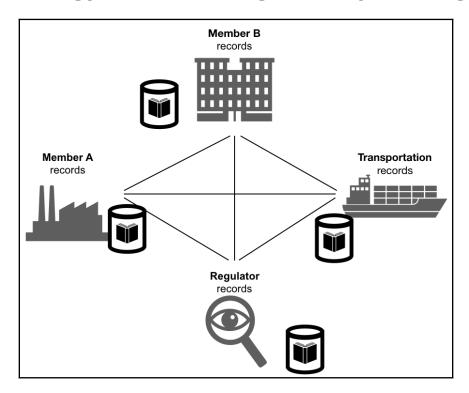
Retrieving logs for app hands-on-iot-app in org

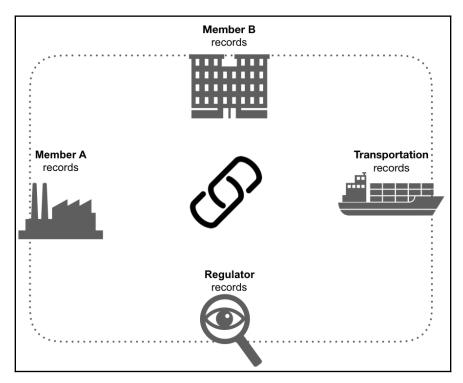
/ space IoT as mraquinoghr.ibm.com...

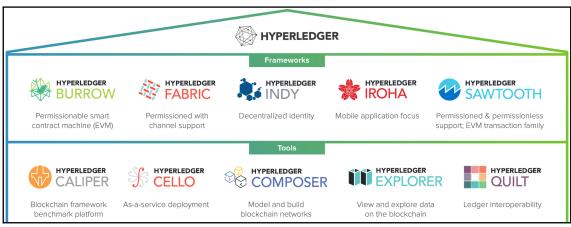
2018-06-29715:27:142.40-8300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 28, "soilMoisture": 148) 2018-06-29715:27:142.40-8300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 27, "soilMoisture": 287) 2018-06-29715:27:52.41-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 27, "soilMoisture": 231 2018-06-29715:27:52.41-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 28, "soilMoisture": 231 2018-06-29715:28:02.41-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 4, "soilMoisture": 304) 2018-06-29715:28:12.42-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 4, "soilMoisture": 370) 2018-06-29715:28:12.42-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 4, "soilMoisture": 370) 2018-06-29715:28:12.42-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 28, "soilMoisture": 370) 2018-06-29715:28:12.42-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 28, "soilMoisture": 370) 2018-06-29715:28:13.43-0300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 27, "soilMoisture": 27) 2018-06-29715:28:14-40-300 [APP/PROC/MER/0] OUT Device Event from :: DeviceSimulator: acb1234 of event status with payload : { "temperature": 27, "soilMoisture": 27) 2018-06-29715:28:14-40-300 [APP/PROC/MER/0] OUT Device Event from :: DeviceS
```

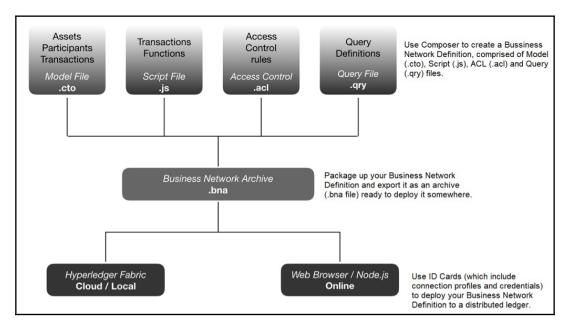
Event Published
Watering plants for 60 seconds
Event Published
Event Published
Watering plants for 60 seconds
Event Published
Event Published
Watering plants for 60 seconds
Event Published
Event Published
Event Published
Watering plants for 60 seconds
Event Published
Watering plants for 60 seconds
Event Published
Watering plants for 60 seconds

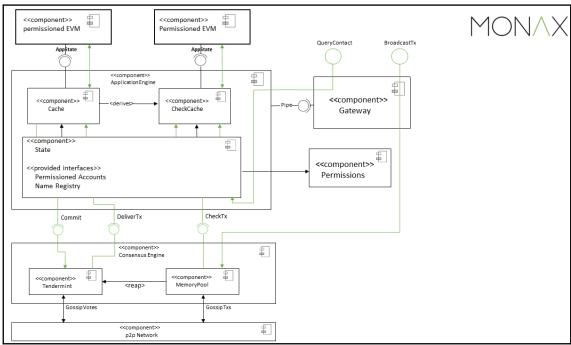
Chapter 3: Explaining Blockchain Technology and Working with Hyperledger

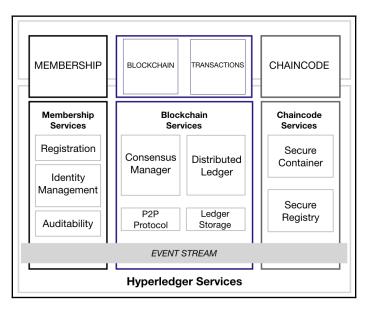


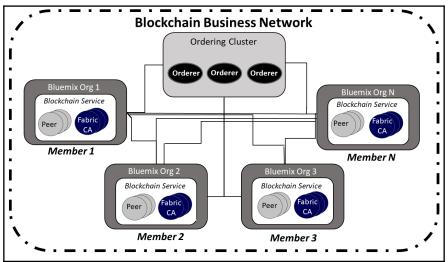


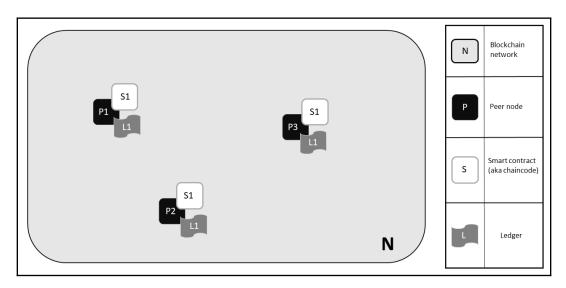


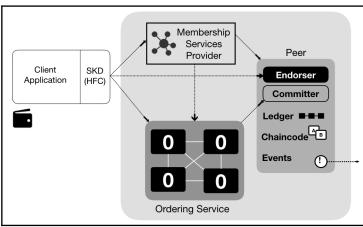




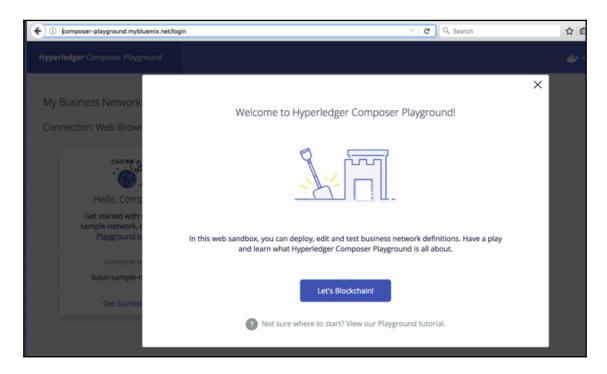


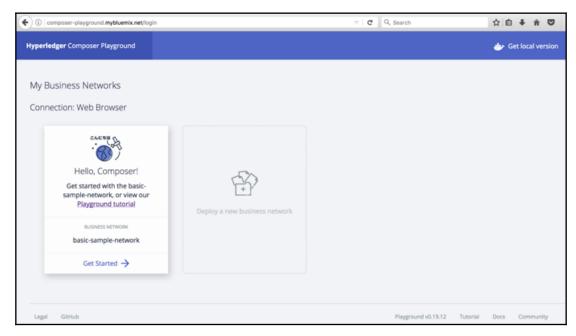


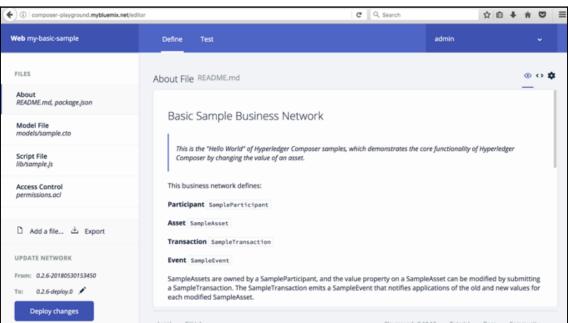


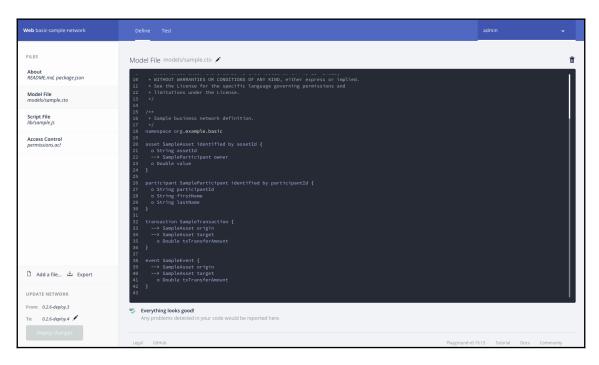


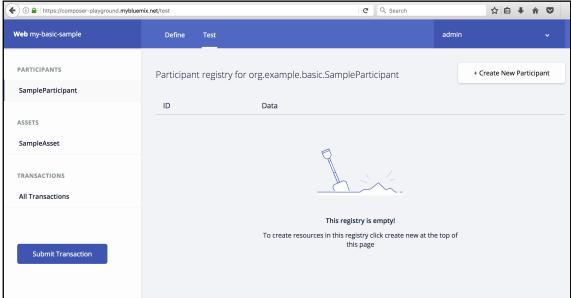
Chapter 4: Creating Your Own Blockchain Network

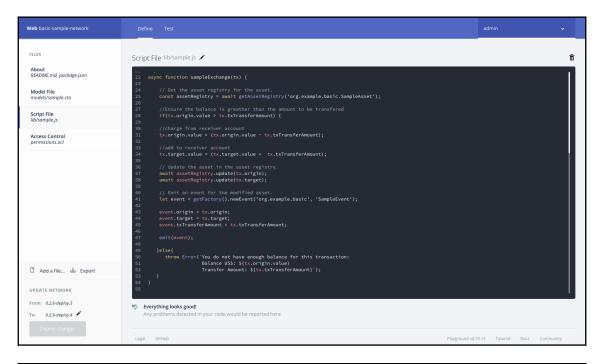


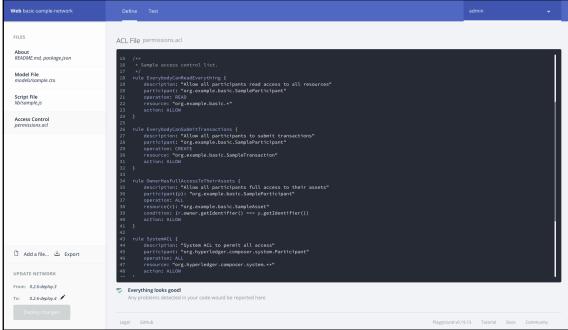




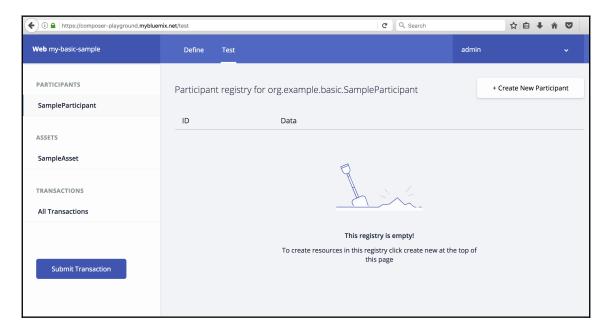


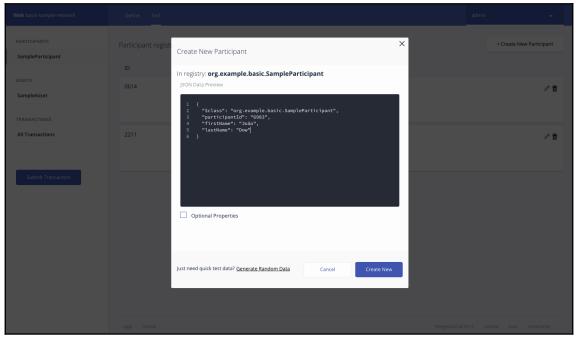


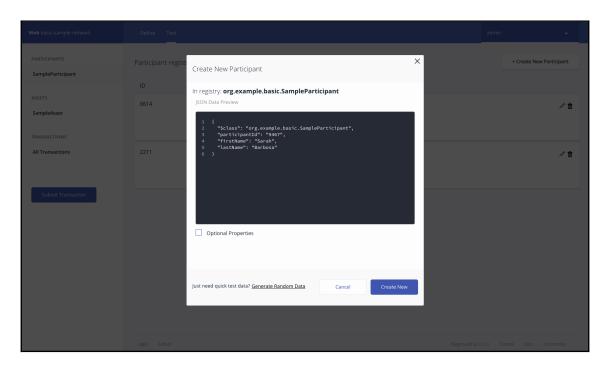


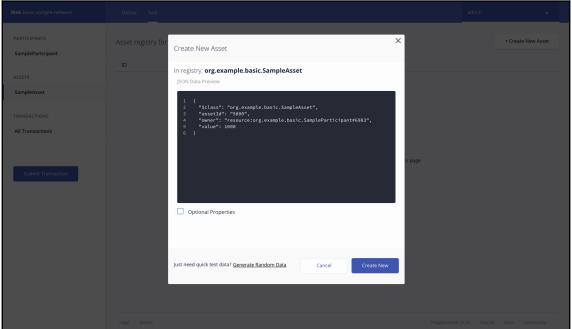


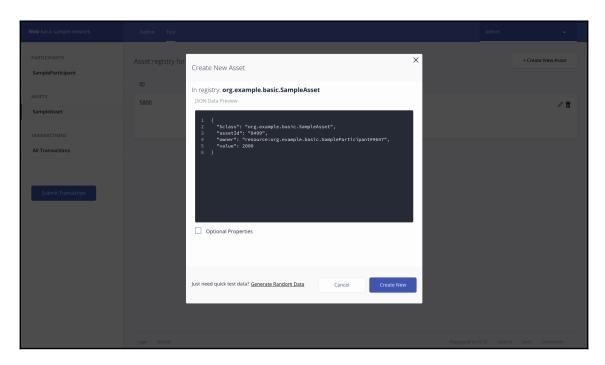
[30] -

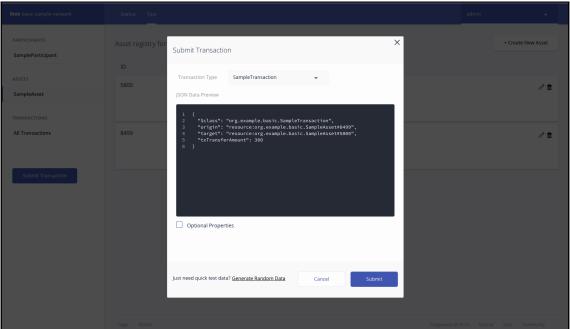


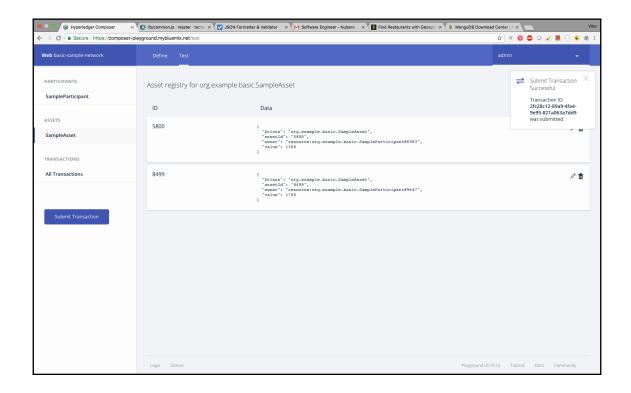






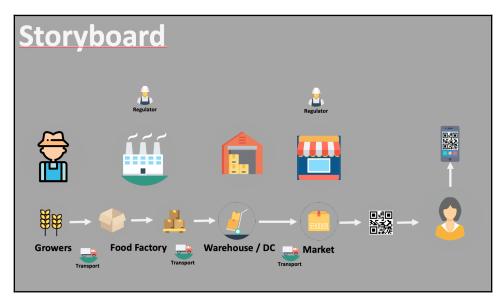






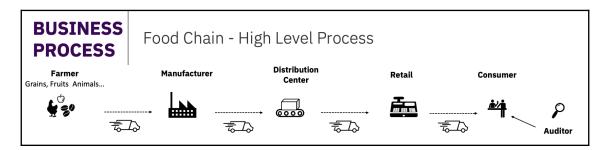
Web basic-sample-network	Define Test			admin	·
PARTICIPANTS SampleParticipant					
ASSETS	Date, Time	Entry Type	Participant		
SampleAsset	2018-08-06, 17:44:11	SampleTransaction	admin (NetworkAdmin)		view record
TRANSACTIONS	2018-08-06, 17:41:18	AddAsset	admin (NetworkAdmin)		view record
All Transactions Submit Transaction	2018-08-06, 17:40:49	RemoveAsset	admin (NetworkAdmin)		view record
	2018-08-06, 17:40:28	AddAsset	admin (NetworkAdmin)		view record
	2018-08-06, 17:38:35	AddAsset	admin (NetworkAdmin)		view record
	2018-08-06, 17:37:56	AddParticipant	admin (NetworkAdmin)		view record
	2018-08-06, 17:37:22	AddParticipant	admin (NetworkAdmin)		view record
	2018-08-06, 17:36:50	RemoveParticipant	admin (NetworkAdmin)		view record
	2018-08-06 17 ⁻ 36·47	RemoveParticinant	admin (NetworkAdmin)		view record
ttps://composer-playground.mybluemix.net/test#	Legal GitHub		Playground v0	.19.13 Tutorial Docs	Community

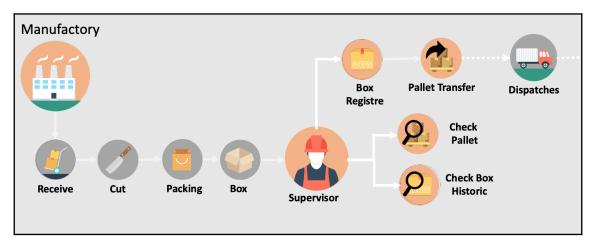
Chapter 5: Addressing Food Safety - Building around the Blockchain

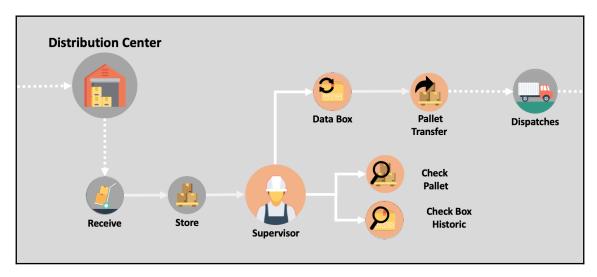


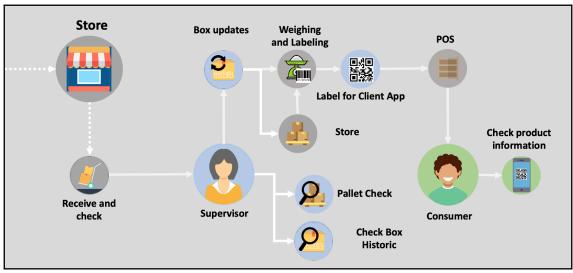


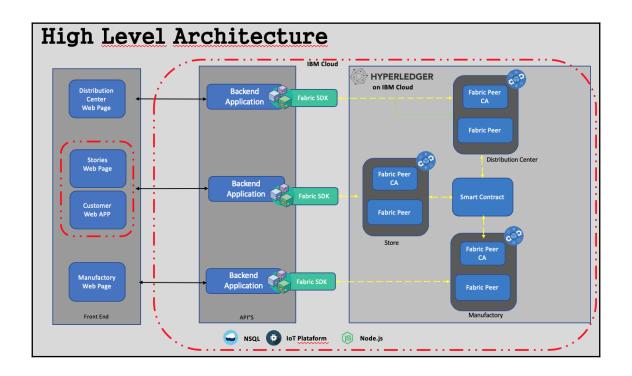
Chapter 6: Designing the Solution Architecture

















Language Spec



Build Tool

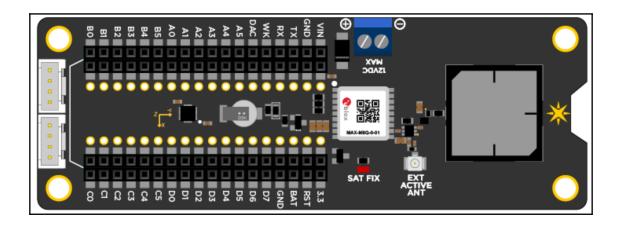


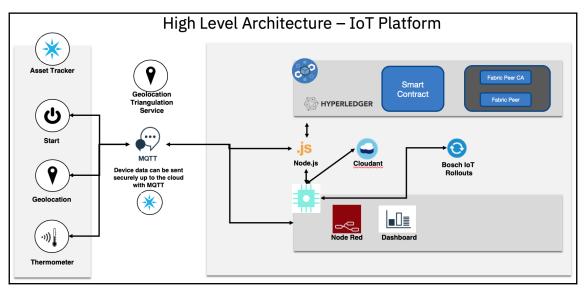


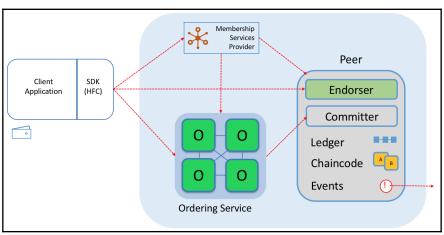
Package Manager

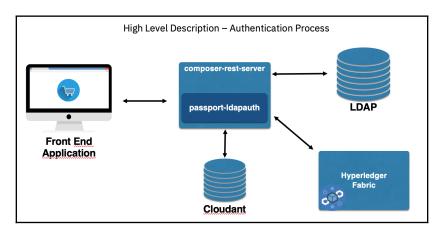


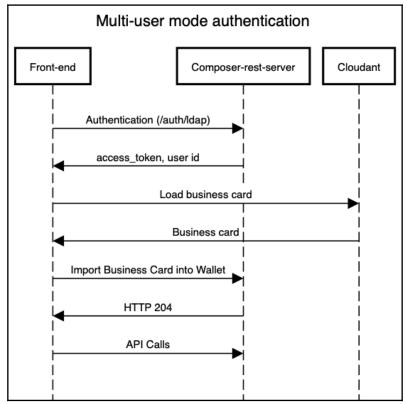


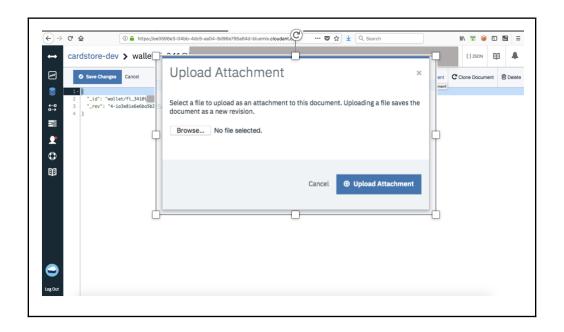




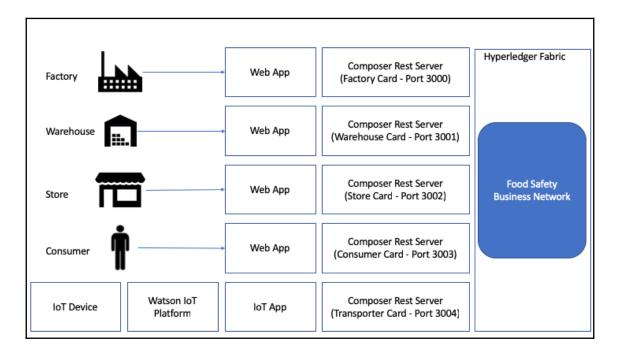


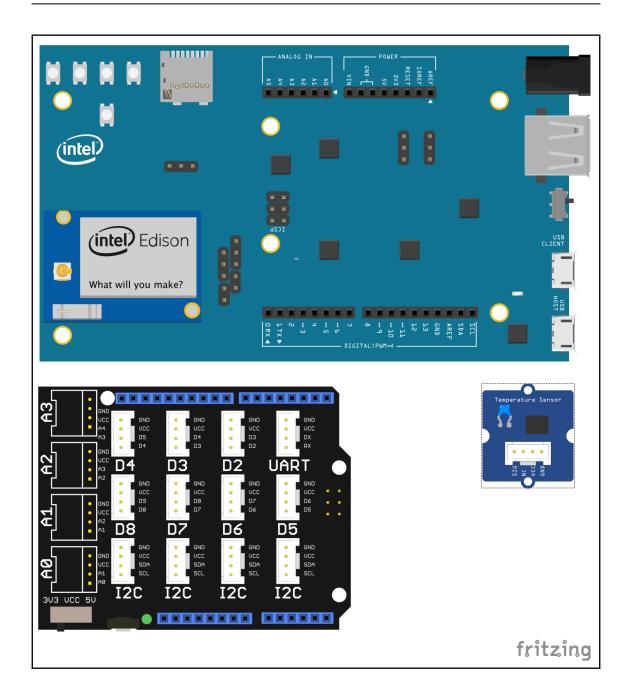


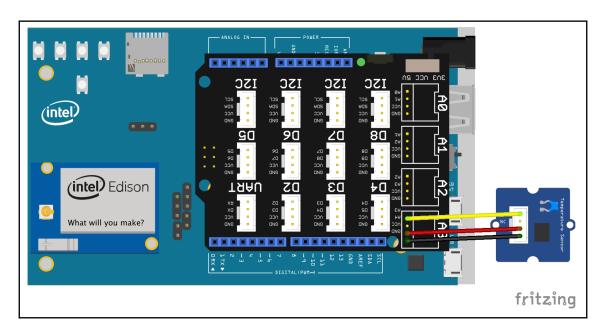


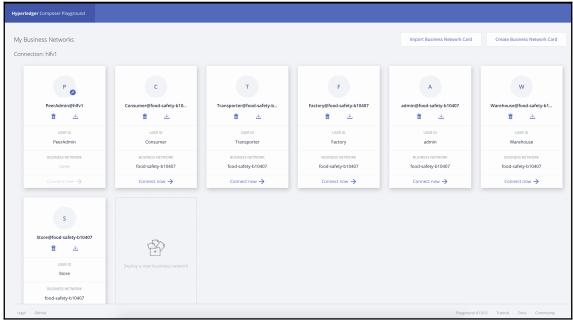


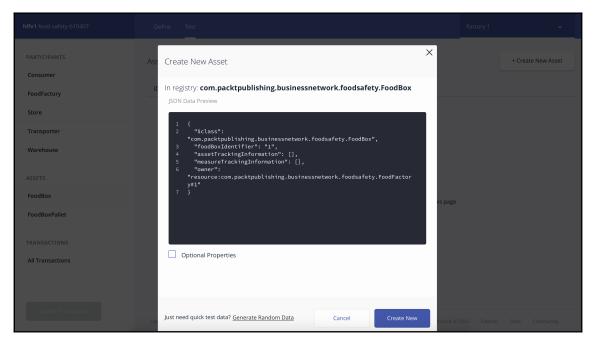
Chapter 7: Creating Your Blockchain and IoT Solution

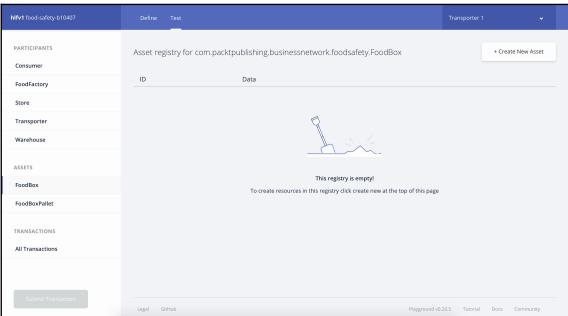


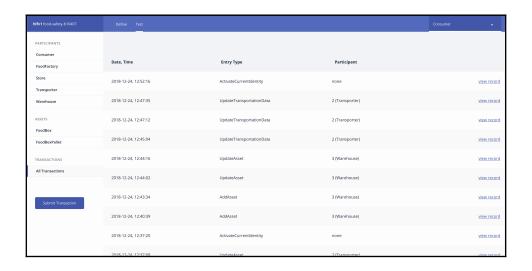






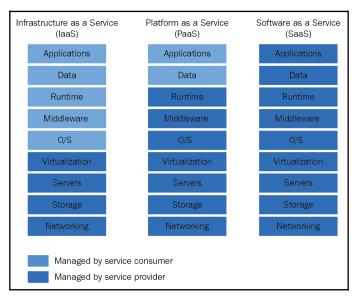


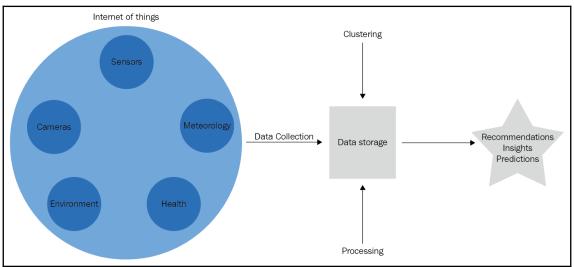


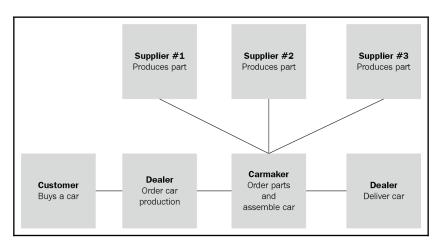


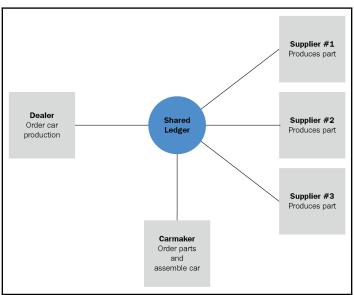
```
×
Historian Record
Transaction
             Events (0)
     {
 "$class":
      "com.packtpublishing.businessnetwork.foodsafety.UpdateTransport
      ationData",
      "asset":
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      xPallet#3485",
      "locationInformation": {
       "$class":
      "com.packtpublishing.businessnetwork.foodsafety.Location",
       "date": "2018-12-24T14:47:21.712Z",
       "location": "STORE",
       "locationIdentifier": "4",
       "status": "ARRIVED"
       "measurementInformation": {
               AddAsset
```

Chapter 8: The IoT, Blockchain, and Industry 4.0









Chapter 9: Best Practices for Developing Blockchain and IoT Solutions

