

<https://github.com/apache/incubator-edgent>

```
git shell - https://git-for-windows.github.io/  
gradlew - git clone https://github.com/mkyong/spring4-mvc-gradle-annotation-hello-world.git  
java8 - http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
```

```
C:\windows\system32\cmd.exe - gradlew
11-11-2016 11:45 <DIR> incubator-edgent-master
1 File(s) 471 bytes
3 Dir(s) 154,158,120,960 bytes free

C:\Edgent>cd incubator-edgent-master

C:\Edgent\incubator-edgent-master>dir *.bat
Volume in drive C is Windows7_OS
Volume Serial Number is AE66-E957

Directory of C:\Edgent\incubator-edgent-master

11-11-2016 11:45 2,405 gradlew.bat
1 File(s) 2,405 bytes
0 Dir(s) 154,158,120,960 bytes free

C:\Edgent\incubator-edgent-master>gradlew
Downloading https://services.gradle.org/distributions/gradle-3.1-bin.zip
.....
```

```
C:\windows\system32\cmd.exe

:aggregateJavadoc
javadoc: warning - Multiple sources of package comments found for package "org.e
clipse.paho.client.mqttv3"
C:\Edgent\incubator-edgent-master\samples\scenarios\src\main\java\org\apache\edg
ent\samples\scenarios\iotp\IotpFullScenario.java:46: warning - Tag @see: referen
ce not found: org.apache.edgent.topology.mbeans
C:\Edgent\incubator-edgent-master\runtime\jsoncontrol\src\main\java\org\apache\ed
gent\runtime\jsoncontrol\JsonControlService.java:48: warning - Tag @see: refere
nce not found: org.apache.edgent.runtime.jsoncontrol Format of control request o
peration
C:\Edgent\incubator-edgent-master\connectors\iotp\src\main\java\org\apache\edgen
t\connectors\iotp\IotpDevice.java:60: warning - Tag @see: reference not found: o
rg.apache.edgent.connectors.iot Edgent generic device model
4 warnings
:copyScripts
:compileJava UP-TO-DATE
:processResources UP-TO-DATE
:classes UP-TO-DATE
:jar UP-TO-DATE
:assemble

BUILD SUCCESSFUL

Total time: 4 mins 9.874 secs
C:\Edgent\incubator-edgent-master>
```

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<https://edgent.apache.org/docs/edgent-getting-started.html>

<https://edgent.apache.org/docs/quickstart>

4) Hack - use IotpDevice to publish the filter data

<http://edgent.incubator.apache.org/javadoc/latest/index.html>

```
public IotpDevice(Topology topology,
                  java.util.Properties options)
Create a connector to the IBM Watson IoT Platform Bluemix
service with the device specified by options.
These properties must be set in options.
org=organization identifier
type=device type
id=device identifier
auth-method=token
auth-token=authorization token
For example:

Properties options = new Properties();
options.setProperty("org", "uguhsp");
options.setProperty("type", "iotsample-arduino");
options.setProperty("id", "00aabbccde03");
options.setProperty("auth-method", "token");
options.setProperty("auth-token", "AJfKQV@&bBo@VX6Dcg");

IotDevice iotDevice = new IotpDevice(options);

=====
TSink<com.google.gson.JsonObject>      events(TStream
<com.google.gson.JsonObject> stream, Function
<com.google.gson.JsonObject, java.lang.String> eventId,
UnaryOperator<com.google.gson.JsonObject> payload, Function
<com.google.gson.JsonObject, java.lang.Integer> qos)
Publish a stream's tuples as device events.
```