**IOT Introduction:**

**Architecture:** MQTT, Kafka, Nifi, HDFS.

In this IOT demo, I have implemented the architecture based on MQTT capabilities being light weight on the Sensor side. I have used Raspberry Pi, which can connect to the Wi-Fi as well as the LAN and mainly the sensor.

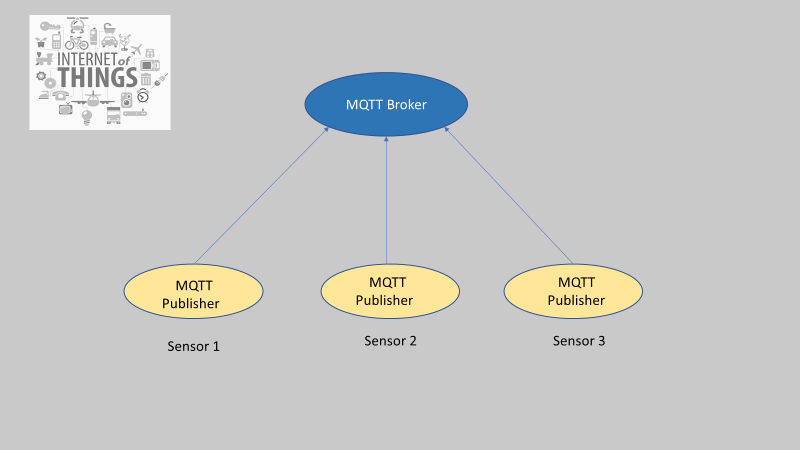
Here I will divide this entire Demo into two parts.

1. Sensor side (We have Sensor with Raspberry Pi in Michigan)
2. Big Data Platform (HDP + HDF) in Ohio.

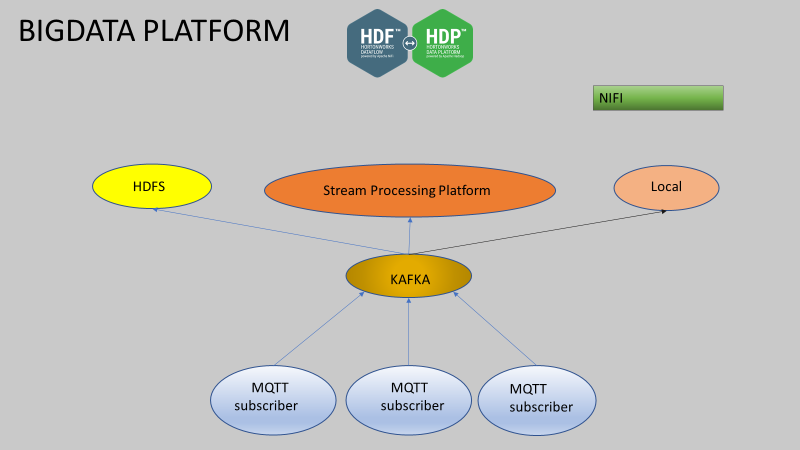
The idea is to transmit the sensor data into Bigdata Platform and perform real time analytics on top of streaming data. Currently, I have finished up building the Big Data environment by installing Hortonworks Data Platform and Hortonworks Data flow on an Ubuntu Machine and executed the IOT demo from Sensor side to the Big Data Platform with including networking between these two platforms. Initially built HDP for Big Data Analytics but after IOT buzz, I have Integrated HDP 2.6.4 (Hortonworks Data Platform) with HDF 3.1(Hortonworks Data Flow). HDF has good ecosystem which has Nifi (Flow file), Storm (can analyze huge amount of Data), Druid (Real time Dashboards) and Kafka (Robust Message broker).

After a good research I found that MQTT is light weight on the Sensor side as well as MQTT control packet headers are kept as small as possible. Each MQTT control packet consist of three parts, a fixed header, variable header and payload. Each MQTT control packet has a 2-byte Fixed header. Not all the control packet has the variable headers and payload. A variable header contains the packet identifier if used by the control packet. A payload up to 256 MB could be attached in the packets. Having a small header overhead makes this protocol appropriate for IoT by lowering the amount of data transmitted over constrained networks.

**Below is the architecture of Sensor side with MQTT Broker**

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**Architecture for capturing streaming data at Big Data Platform:**

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You might have a question, why can’t we use Kafka directly on the Raspberry Pi?

**Why not only KAFKA? Why MQTT on Sensors?**  
It’s because of the available resources like CPU and RAM on the Raspberry Pi.  
MQTT runs by consuming less resources.  
Kafka needs good amount of resources.   
On Raspberry Pi, the amount of RAM is 1 GB, free RAM space remaining after MQTT and other services related to Raspberry Pi is 234MB, where Kafka was unable to start sometimes because of less memory available in Raspberry Pi and we cannot expect more RAM on devices connected with in IOT. So, using MQTT broker service on the sensor side architecture consumes less resources.

We can also make Kafka to use less memory  
I have to adjust Kafka configuration files to use less memory (128 MB). Then Kafka server started on Pi.  
But when Kafka MQTT connection is made Kafka Server was up for some time and Server got killed on Pi.  
 **Why Kafka on Big Data Side?**

Since MQTT [is designed for low-power devices](https://thenewstack.io/off-shelf-hacker-lightweight-inter-device-messaging-mqtt/), it cannot handle the ingestion of massive datasets. On the other hand, Apache Kafka may deal with high-velocity data ingestion but not with M2M

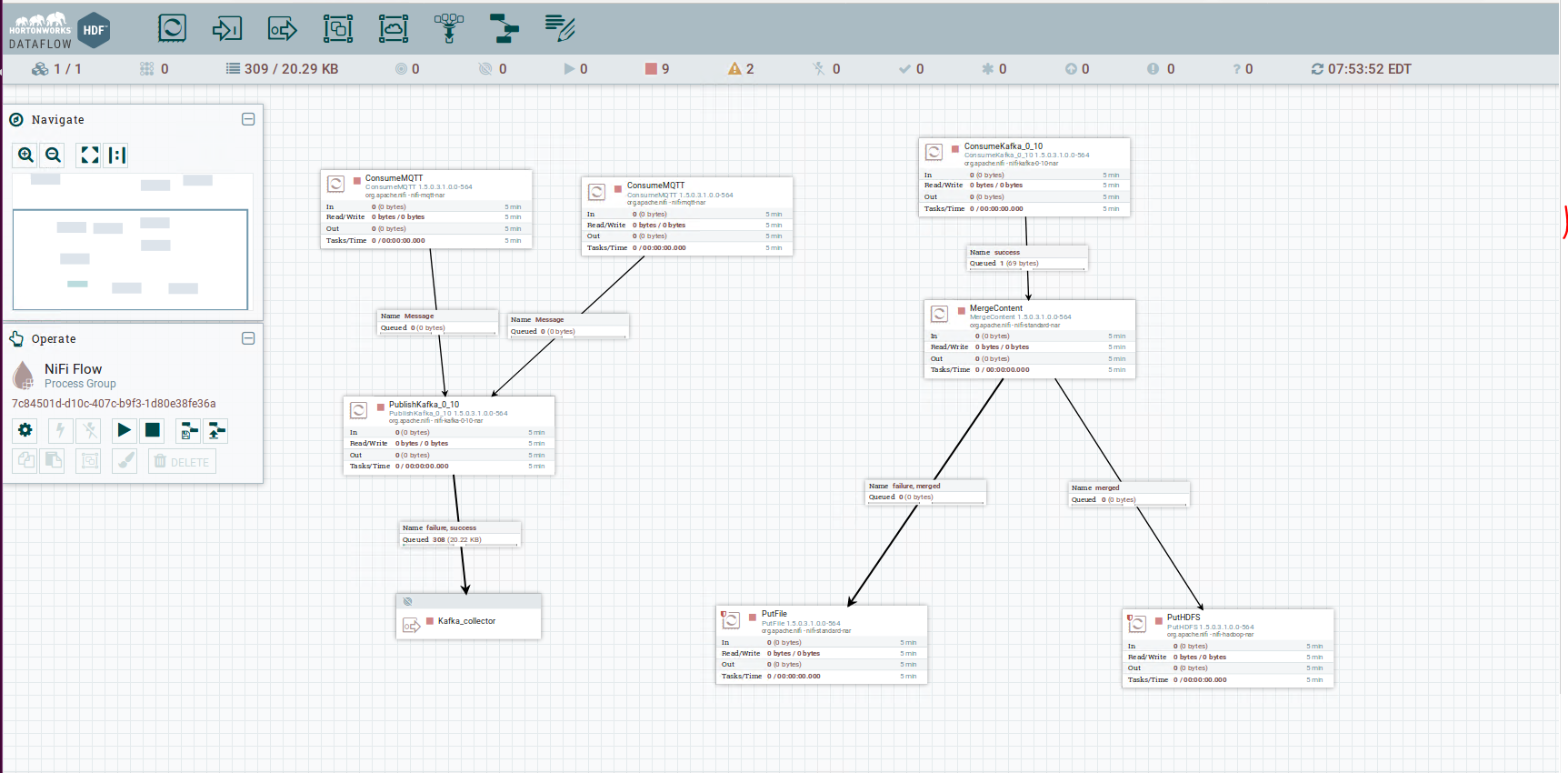
**Nifi (HDF):**

**![A screenshot of text

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**Multiple MQTT Consumers can be connected to Kafka.**

MQTT Consumers are putting the data into Nifi Flow file and those Nifi flow files can ingest the data into Kafka Topics through Kafka publishers. If it is a Kafka cluster, Kafka consumer in a different machine(Parallelizing) can consume the data based on partitions or the topics. Here Multiple MQTT consumers carrying different Topics data are putting the Data into single topic into Kafka Broker through Publisher.



**Python Code for collecting sensor data from Temperature Sensor and publishing that data into MQTT Topics.**

**A screenshot of a social media post

Description generated with very high confidence**

I have installed Paho Mqtt client package for MQTT client to communicate with MQTT Server. Collecting the temperature data and along with time stamp is sent in a variable and published to MQTT Topic.

**A screenshot of a social media post

Description generated with very high confidence**

**Temperature Sensor Emitting data into MQTT Publisher:**

**A screenshot of a social media post

Description generated with very high confidence**

[**https://www.ibm.com/developerworks/community/blogs/5things/entry/5\_things\_to\_know\_about\_mqtt\_the\_protocol\_for\_internet\_of\_things?lang=en**](https://www.ibm.com/developerworks/community/blogs/5things/entry/5_things_to_know_about_mqtt_the_protocol_for_internet_of_things?lang=en)

**Expansion of this Project**:

1. MQTT, Kafka, Nifi, HDFS(HBase)

2. MQTT, Kafka, Nifi, Storm, Druid Dashboards.

**How more can be this Architecture be implemented?**

We have a separate cluster of Hadoop and Kafka, which is a production cluster. Now Kafka cluster will entirely work on Data pipeline and ingest the data into HDFS or any streaming platform.

At the sensors side a cluster of MQTT can be formed. MQTT Server(Broker) and MQTT clients (MQTT Publishers). MQTT Server can be on a machine and publishers on the Sensors can publish the data from respective sensors to MQTT Server(Broker). They must talk to each other by keeping them in a same network or a VPN can be implemented for Data security.

Kafka Connect can also be used, I also used Kafka Connect with MQTT to transfer the data between the topics of MQTT and Kafka. In the same way Kafka connect can also be connected with HDFS ruling out Nifi from the Architecture, but Nifi has great advantages. Please refer the link for article below from Hortonworks Community.

<https://community.hortonworks.com/questions/57852/apache-nifi-and-kafka.html>