

Sending JSON to NodeJS to Multiple Topics in Kafka - using kafka-node.

Kafka-node is a Node.js client with Zookeeper integration for Apache Kafka 0.8.1 and later. The Zookeeper integration does the following jobs:

- Loads broker metadata from Zookeeper before we can communicate with the Kafka server
- Watches broker state, if broker changes, the client will refresh broker and topic metadata stored in the client

What we are trying to achieve ?

1. Send json from and browser/curl to nodejs.
2. nodejs will redirect json data based on url to each topic in kafka. Example : URL /upload/topic/A will send the json to topic_a in kafka
3. Further processing is done on kafka.
4. We can then see the json arrival in kafka, using kafka-console-consumer.sh script.

Step 1 : Get the json_nodejs_multiple_topics.js from git

Code Link : [json_nodejs_multiple_topics.js](#)

Step 2 : Start above script on the nodejs server.

```
[nodejs-admin@nodejs nodejs]$ vim json_nodejs_multiple_topics.js
[nodejs-admin@nodejs nodejs]$ node json_nodejs_multiple_topics.js
```

Step 3 : Execute curl command to send the JSON to nodejs.

```
[nodejs-admin@nodejs nodejs]$ curl -H "Content-Type: application/json" \
-d '{"username":"xyz","password":"xyz"}' http://localhost:8125/upload/topic/A
[nodejs-admin@nodejs nodejs]$ curl -H "Content-Type: application/json" \
-d '{"username":"abc","password":"xyz"}' http://localhost:8125/upload/topic/B
[nodejs-admin@nodejs nodejs]$ curl -H "Content-Type: application/json" \
-d '{"username":"efg","password":"xyz"}' http://localhost:8125/upload/topic/C
[nodejs-admin@nodejs nodejs]$ curl -H "Content-Type: application/json" \
-d '{"username":"efg","password":"xyz"}' http://localhost:8125/upload/topic/D
```

Step 4 : Output on nodejs console

```
[nginx-admin@nginx nodejs]$ node json_nodejs_multiple_topics.js
For Topic A
{"username":"xyz","password":"xyz"}
```

```

{ topic_a: { '0': 16 } }
For Topic B
{"username":"abc","password":"xyz"}
{ topic_b: { '0': 1 } }
For Topic C
{"username":"efg","password":"xyz"}
{ topic_c: { '0': 0 } }
ERROR: Could not Process this URL :/upload/topic/D
{"username":"efg","password":"xyz"}

```

{"username":"xyz","password":"xyz"} request from the curl command. { test: { '0': 29 } } response from the kafka cluster that, it has received the json.

Step5 : Output on the kafka consumer side.

NOTE : Assuming that we have already created topics in kafka. using below command.

```

[kafka-admin@kafka kafka]$ bin/kafka-topics.sh --create --zookeeper localhost:2181 \
--replication-factor 1 --partitions 1 --topic topic_a
[kafka-admin@kafka kafka]$ bin/kafka-topics.sh --create --zookeeper localhost:2181 \
--replication-factor 1 --partitions 1 --topic topic_b
[kafka-admin@kafka kafka]$ bin/kafka-topics.sh --create --zookeeper localhost:2181 \
--replication-factor 1 --partitions 1 --topic topic_c
[kafka-admin@kafka kafka_2.9.2-0.8.2.0]$ bin/kafka-topics.sh --list --zookeeper localhost:2181
topic_a
topic_b
topic_c
[kafka-admin@kafka kafka_2.9.2-0.8.2.0]$

```

Here is the output after running curl command on the nodejs server

```

[kafka-admin@kafka kafka_2.9.2-0.8.2.0]$ bin/kafka-console-consumer.sh \
--zookeeper localhost:2181 --topic topic_a --from-beginning
{"username":"xyz","password":"xyz"}

[kafka-admin@kafka kafka_2.9.2-0.8.2.0]$ bin/kafka-console-consumer.sh \
--zookeeper localhost:2181 --topic topic_b --from-beginning
{"username":"abc","password":"xyz"}

[kafka-admin@kafka kafka_2.9.2-0.8.2.0]$ bin/kafka-console-consumer.sh \
--zookeeper localhost:2181 --topic topic_c --from-beginning
{"username":"efg","password":"xyz"}

```

{"username":"xyz","password":"xyz"} data received from nodejs server. {"username":"abc","password":"xyz"} data received from nodejs server. {"username":"efg","password":"xyz"} data received from nodejs server.

Useful Links.

<http://whatizee.blogspot.in/2015/02/installing-kafka-single-node-quick-start.html>
<http://whatizee.blogspot.in/2015/02/installing-nodejs-on-centos-66.html>
<http://whatizee.blogspot.in/2015/02/sending-json-nodejs-kafka.html>
https://github.com/zubayr/kafka-nodejs/blob/master/send_json_multiple_topics/README.md