

NodeJS Kafka Producer - Using `kafka-node`

Now that we have Kafka and NodeJS ready. Lets some data to our Kafka Cluster.

Below is a basic producer code.

below are the Server Details.

1. `nodejs` is the nodejs server.
2. `kafka` is the kafka server (single node).

Step 1: Copy the below script in a file called `producer_nodejs.js`.

```
/*
  Basic producer to send data to kafka from nodejs.
  More Information Here : https://www.npmjs.com/package/kafka-node
*/

// Using kafka-node - really nice library
// create a producer and connect to a Zookeeper to send the payloads.
var kafka = require('kafka-node'),
    Producer = kafka.Producer,
    client = new kafka.Client('kafka:2181'),
    producer = new Producer(client);

/*
  Creating a payload, which takes below information
  'topic'      --> this is the topic we have created in kafka. (test)
  'messages'   --> data which needs to be sent to kafka. (JSON in our case)
  'partition' --> which partition should we send the request to. (default)

  example command to create a topic in kafka:
  [kafka@kafka kafka]$ bin/kafka-topics.sh \
      --create --zookeeper localhost:2181 \
      --replication-factor 1 \
      --partitions 1 \
      --topic test

  If there are multiple partition, then we optimize the code here,
  so that we send request to different partitions.

*/
payloads = [
  { topic: 'test', messages: 'This is the First Message I am sending', partition: 0 },
];
```

```
// producer 'on' ready to send payload to kafka.
producer.on('ready', function(){
  producer.send(payloads, function(err, data){
    console.log(data)
  });
});

producer.on('error', function(err){}
```

Step 2 : Start the kafka cluster as we already did in Installation of Kafka. Assuming topic as test

Step 3 : Start the consumer service as in the below command.

```
[kafka-admin@kafka kafka]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 \
--topic test --from-beginning
```

Step 4 : Execute below command. This will send This is the First Message I am sending Message to the Kafka consumer.

```
[nodejs-admin@nodejs nodejs]$ node producer_nodejs.js
```

Step 5 : Check on the consumer you will see the message sent from nodejs.

```
[kafka-admin@kafka kafka]$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 \
--topic test --from-beginning
This is a message
This is another message here
This is the First Message I am sending
```