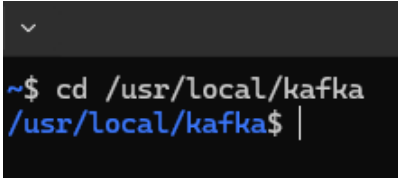



Kafka Workflow: Creating a Topic and sending messages in Kafka

The purpose of this Standard Operating Procedure (SOP) is to provide: a procedure to create a sample topic and sample messages to be sent from the producer, then read by the consumer.

Steps	Description
1.	<p>Navigate to the /usr/local/kafka directory:</p> <pre>cd /usr/local/kafka</pre> 
2.	<p>Create a topic called testTopic1 using the following command:</p> <pre>bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 3 --partitions 1 --topic spongebobTopic</pre> 
3.	<p>The following options describe the previous command:</p> <p>--create option to create a new topic</p> <p>--replication-factor describes how many copies of data will be created. As we are running with a single instance keep this value 1.</p> <p>--partitions options as the number of brokers you want your data to be split between. As we are running with a single broker keep this value 1.</p> <p>--topic define the name of the topic</p>

4.	<p>You can see the created topics on Kafka by the running below command:</p> <pre>bin/kafka-topics.sh --list --bootstrap-server localhost:9092</pre> <pre>__consumer_offsets testTopic testTopic1 testTopic2</pre>
5.	<p>Run the producer and type a message into the console using the following command:</p> <pre>bin/kafka-console-producer.sh --broker-list localhost:9092 --topic testTopic1</pre> <pre>>Welcome to kafka >This is my first topic ></pre>
6.	<p>Receiving the message as the consumer, using the following command:</p> <pre>bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic testTopic1 --from-beginning</pre> <pre>Welcome to kafka This is my first topic</pre>