**Lab Setup for Kafka with .Net**

1. Download “Visual Studio Express” and install the .Net Core Framework for Console Applications Module  
   * <https://visualstudio.microsoft.com/vs/express/>
2. Install Kafka 2.11 or any other version that you like:
   * <https://kafka.apache.org/downloads>

**Getting Started with Kafka**

* Open a new windows terminal and start the zookeeper service:

C:\kafka\_2.11-2.1.0> **.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties**

* Open a new windows terminal and start the Kafka broker service.

C:\kafka\_2.11-2.1.0>.\**bin\windows\kafka-server-start.bat config\server.properties**

* Open a new windows terminal and create a topic.

C:\kafka\_2.11-2.1.0>.\**bin\windows\kafka-topics.bat --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic topic-1**

* Open a new windows terminal and start a console producer.

C:\kafka\_2.11-2.1.0>.\**bin\windows\** **kafka-console-producer.bat --broker-list localhost:9092 --topic topic-1**

* Open a new windows terminal and start a console consumer.

C:\kafka\_2.11-2.1.0>.\**bin\windows\kafka-console-consumer.bat –bootstrap-server localhost:9092 --topic topic-1**

* Produce some message at the producer side and see if they are consumed by the consumer.

**Creating a simple .Net Console Application (using command line)**

**C:>mkdir <dir-name>**

**C:>cd <dir-name>**

**C:>dotnet new console**

**C:>dotnet add package Confluent.Kafka**

**Building & Running the Console App**

**C:>dotnet build -c Release**

**C:>dotnet bin/Release/netcoreapp2.1/<app>.dll**

**Docker and Confluent Kafka installation:**

**Download Docker toolbox using the following link and install:**

<https://github.com/docker/toolbox/releases/tag/v18.09.3>

**Download Confluent Kafka docker image using the following link:**

<https://github.com/confluentinc/cp-docker-images>