# 1. Kafka Setup

1. Start Zookeeper

\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties

Output:

A screen shot of a computer

AI-generated content may be incorrect.

1. Start Kafka Server

.\bin\windows\kafka-server-start.bat .\config\server.properties

Output:

A screen shot of a computer

AI-generated content may be incorrect.

1. Create Kafka Topic

.\bin\windows\kafka-topics.bat --create --topic chat-topic --bootstrap-server localhost:9092 --partitions 1 --replication-factor 1

Output:

A screen shot of a computer

AI-generated content may be incorrect.

# 2. C# Console Producer (Chat Sender)

using System;  
using Confluent.Kafka;  
  
class Program  
{  
 public static async Task Main()  
 {  
 var config = new ProducerConfig { BootstrapServers = "localhost:9092" };  
 using var producer = new ProducerBuilder<Null, string>(config).Build();  
  
 Console.WriteLine("Enter messages to send to Kafka (chat-topic):");  
 while (true)  
 {  
 var msg = Console.ReadLine();  
 if (msg == "exit") break;  
 await producer.ProduceAsync("chat-topic", new Message<Null, string> { Value = msg });  
 }  
 }  
}

Output:

A black screen with white text

AI-generated content may be incorrect.

# 3. C# Console Consumer (Chat Receiver)

using System;  
using Confluent.Kafka;  
  
class Program  
{  
 public static void Main()  
 {  
 var config = new ConsumerConfig  
 {  
 BootstrapServers = "localhost:9092",  
 GroupId = "chat-group",  
 AutoOffsetReset = AutoOffsetReset.Earliest  
 };  
  
 using var consumer = new ConsumerBuilder<Ignore, string>(config).Build();  
 consumer.Subscribe("chat-topic");  
  
 Console.WriteLine("Receiving messages from Kafka (chat-topic):");  
 while (true)  
 {  
 var cr = consumer.Consume();  
 Console.WriteLine($"Received: {cr.Message.Value}");  
 }  
 }  
}

Output:

A black rectangle with white text

AI-generated content may be incorrect.