6. WebApi\_Handson

1. **Create a Chat Application which uses Kafka as a streaming platform and consume the chat messages in the command prompt.**

Zookeeper running

A screenshot of a computer screen

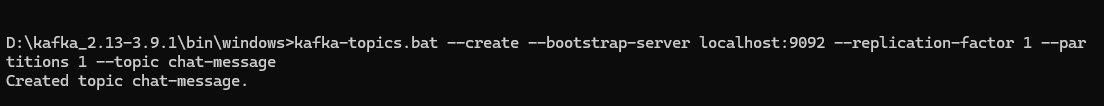
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Kafka server running

A screenshot of a computer

AI-generated content may be incorrect.

Topic created

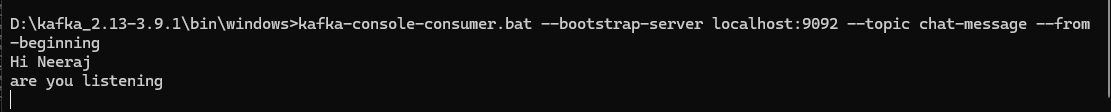


Publisher platform

A screenshot of a computer

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Client platform



1. **Create a Chat Application using C# Windows Application using Kafka and consume the message in different client applications.**

|  |
| --- |
| namespace Kafka\_DotNet  {  public partial class Form1 : Form  {  private IProducer<Null, string> \_producer;  private string \_kafkaTopic = "chat-message";  private string \_kafkaBroker = "localhost:9092";  public Form1()  {  InitializeComponent();  this.FormClosing += new FormClosingEventHandler(Form1\_FormClosing);  }  private void Form1\_Load(object sender, EventArgs e)  {  var producerConfig = new ProducerConfig { BootstrapServers = \_kafkaBroker };  \_producer = new ProducerBuilder<Null, string>(producerConfig).Build();  }  private void Send\_Click(object sender, EventArgs e)  {  string messageText = textBox1.Text.Trim();  if (string.IsNullOrEmpty(messageText))  {  MessageBox.Show("Please Enter a Message", "Warning", MessageBoxButtons.OK, MessageBoxIcon.Warning);  return;  }  \_producer.Produce(\_kafkaTopic, new Message<Null, string> { Value = messageText },  deliveryReport =>  {  if (deliveryReport.Error.Code != ErrorCode.NoError)  {  Console.WriteLine($"Failed to deliver message: {deliveryReport.Error.Reason}");  }  else  {  Console.WriteLine($"Delivered message to: {deliveryReport.TopicPartitionOffset}");  }  });  textBox1.Clear();  textBox1.Focus();  }  private void Form1\_FormClosing(object sender, FormClosingEventArgs e)  {  \_producer?.Dispose();  }  private void Cancel\_Click(object sender, EventArgs e)  {  textBox1.Clear();  textBox1.Focus();  }  }  } |

A screenshot of a computer

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A black screen with white text

AI-generated content may be incorrect.