

# Explaining Kafka



# kafka

# Introduction

Let's imagine you are at a party where people want to share exciting **news or stories** with each other.

Normally, you would go around talking to each person individually, which can be time-consuming.



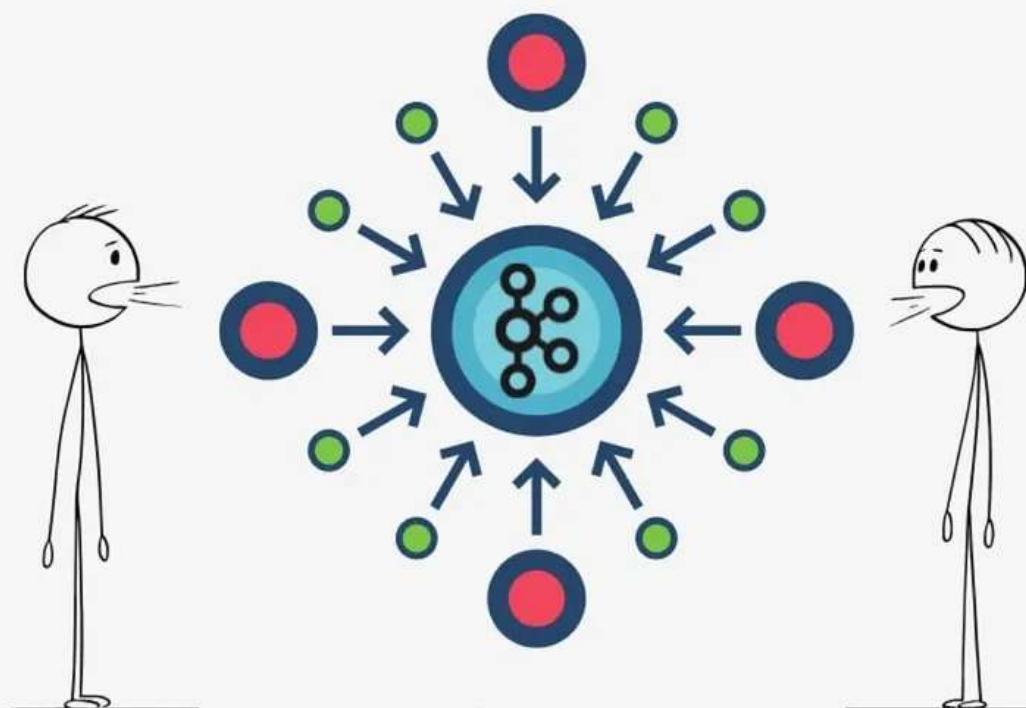
But here comes **Apache Kafka**, the party organizer!



# Kafka: Centralizing the Buzz

Apache Kafka is like a central communication hub at the party.

Instead of everyone talking to each other individually, they can now come to the hub and share their news or stories.



# Kafka Topics

The hub, which is Apache Kafka, **collects all the messages** and organizes them into **different categories or topics**.

It keeps track of **who** said **what** and **when**.



# Topic-Based Message Distribution

Now, imagine you have a **group** of friends who are really interested in **funny jokes**. Apache Kafka makes it easy for you to share all the funny jokes with this specific group.

Kafka will tag those with the **topic "Funny Jokes."** Your friends can then come to the hub and read all the funny jokes people shared with each others.





# What is Apache Kafka?

Similarly, in the world of software development, **Apache Kafka** is a **distributed streaming platform** that acts as a **central hub** for handling **large amounts of data**.

It allows different systems and applications to communicate and **share data** with each other in **real-time**.

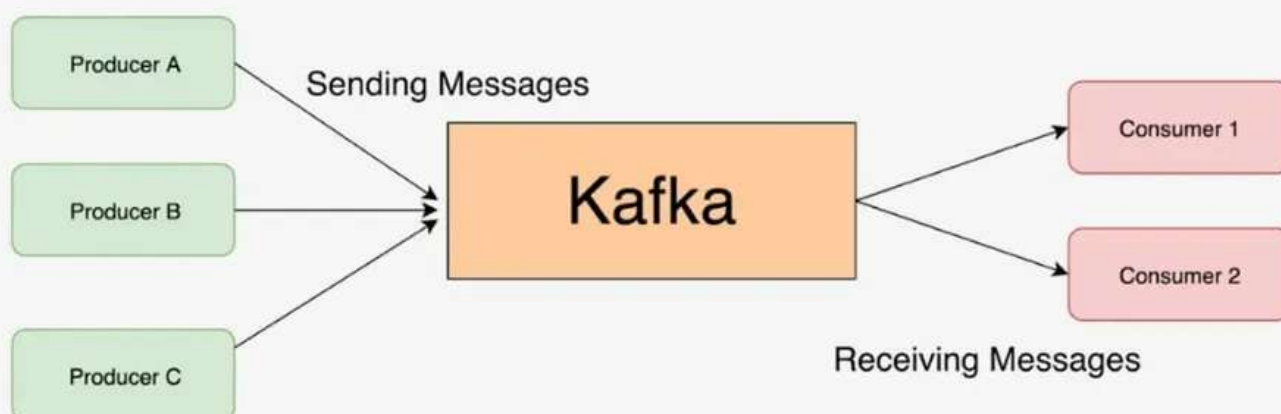


# Producers and consumers

Data in Kafka is organized and stored into **topics**.

In Kafka terminology, those **that write data** to topics are called **producers**, while those **who read data** from them are called **consumers**.

Having data categorized in topics helps producers and consumers to exchange only data of interest.



# Kafka advantages

Apache Kafka is known for its:

high scalability



You can easily  
increase number  
of computers

fault-tolerance and low latency.



No data is lost  
even when  
accident happens



It's very fast!





# Which **companies** use **Kafka**?

Kafka is widely used by companies like **LinkedIn**, **Netflix**, and **Uber** for real-time data streaming, log aggregation, and event-driven architectures. 🚀

