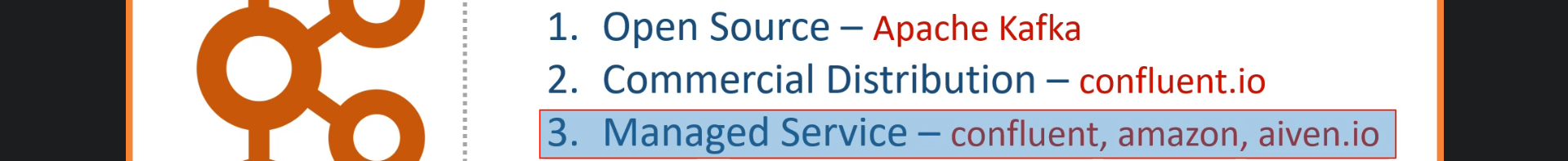
1. A picture containing graphical user interface

   Description automatically generated
2. **Agenda**:
   1. To set up a **single node Kafka** on our local machine.
3. But before that, let me add some contextual theory.
4. **Kafka** comes in **many flavors** and you can classify them into three categories.  
   
   1. **Open Source** – **Apache Kafka**You can download it from the Apache website, install it, use it, and manage it yourself.

If you’re getting into some **operational issues** or **open bugs**, need to upgrade **Kafka Versions** or facing some infrastructure problems, you’re all alone and expected to develop in-house expertise to handle it.  
The point is straight. Your organization is unlikely to use **open source distribution** unless you have a bunch of **Kafka Admins** and **infrastructure experts** who understand in and out of the **Kafka Cluster**. That is hard to find.

* 1. **Commercial Distribution**: confluent.io
     1. It comes with a bunch of tools and utilities to manage your day-to-day operations and monitor your cluster.
     2. Your commercial vendor is going to deploy a bunch of well-trained and highly skilled support professionals for you.
     3. This option comes with a cost to your organization.
     4. However, you’re most likely to work on these kinds of setups.
     5. **Confluent Kafka** is one such **Commercial Distribution** & this is most popular one.  
        Confluent also offers a **community edition** without any cost & that is what we’re going to use in this course.  
        Why **Confluent Kafka**? Why not **Apache Kafka?**Because you’re going to see most likely **Confluent Kafka** in your **Production Environment.**
  2. **Managed Service – Confluent, Amazon, aiven.io**:
     1. This 3rd option is a fully **managed Kafka Service** in the **cloud**.
     2. In this option, you don’t need to download, install, run, operate, or maintain anything related to the **Kafka Cluster**. Just use the **cluster** for producing and consuming data.  
        All the infrastructure headache is taken care of by the **Managed Service Provider.**Thisoption is the simplest way of using **Kafka** for your projects and comes with different payment plans.  
        **Confluent** is also a **Managed Service Provider**. There are others as well including **Amazon, aiven.io.**

1. However, all these options are to get a **Kafka Cluster.**You still need to develop apps for creating and processing **Data Streams.**
2. So, with that background set, let’s download **Confluent Kafka Community Edition** and set up on our local machine.
3. 
   1. Graphical user interface, funnel chart

      Description automatically generated
   2. Then unzip.
   3. Graphical user interface, text, application, email

      Description automatically generatedYou need **JVM** installed on your system.
   4. **Kafka** comes with a bunch of **command line tools** and you can find them under bin dir.
   5. 03:37