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1.##.What isFlume?

ApacheFlumeisadistributed,reliable,andavailablesoftwareforefficientlyc ollecting, aggregating, and moving large amounts of log data. It has a simpleandflexiblearchitecturebasedonstreamingdataflows.

2.##Explainthe core componentsofFlume.

A Flume data flow is made up of five main components: Events, Sources, Channels, Sinks, and Agents. An event is the basic unit of data that is movedusing Flume. It is similar to message in JMS and is generally small. It is made up of headers and abytearray body.

3.##.Whatis anAgent?

Anagent,inlegalterminology,isapersonwhohas beenlegallyempoweredto act on behalf of another person or an entity. An agent may be employed torepresent a client in negotiations and other dealings with third parties. Theagentmaybegivendecisionmakingauthority.

4.##Whatisachannel?

Flume channel is one of the components of a Flume agent. It sits in
betweenflume sources and flume sinks. Channels ensure no loss of data
in Flume. Sourceswrite data to the Flume channel. The data written to the
Flume channel areconsumedbyFlumesinks.

5.##What isKafka?

Apache Kafka is a distributed event store and stream-processing platform. Itisanopen-source systemdeveloped bytheApache SoftwareFoundation writtenin Java and Scala. The project aims to provide a unified, high-throughput, low-latencyplatformforhandlingreal-timedatafeeds.

6.##Listthe variouscomponentsinKafka.

ThemainKafkacomponentsaretopics,producers,consumers,consumergroups,clusters,brokers,partitions,replicas,leaders,andfollowers.

7.##WhatistheroleoftheZooKeeper?

A zookeeper's responsibilities usually include feeding, maintaining andcleaning the animals, diet preparation, behavioral observation, record keeping, exhibitmaintenanceand providing environmental enrichment for the animals in their care.

8.##WhyareReplicationscriticalinKafka?

The purposeofaddingreplication in Kafka isforstrongerdurabilityandhigher availability. We want to guarantee that any successfully publishedmessage will not be lost and can be consumed, even when there are serverfailures.