Katka Work: Broker -Message Broker Subscribes Publisher Message Consumer Message Boducer Ratkadomponento: 1. Server Software-Broker 2. Client API - Java Cibrary a. Produces API b. Consumer API 3. Roska Connect 4. Batka Streams 5. KSQL Kalka Core Components: Stocaming is the core component All interactions are via Kathaka Broker for Apache Kalka. To Locate a message the "Espic Name", "Partition Number" & "Offset Number" were needed to be known. Kakka Topre pastitions are the core ilon of making kalka a distributed & Scalable System

2/5 Sample Implementation: The maximum number of possible parallel Consumers are limited by the number of partition of the kapka-topic. Kapka doesn't allow more then one consumer to read & process data from the same partition simultaneously. Refail Chain Invoking Counters Katka Clustes Consoner GISOUP Producer API'S

3/5 Katka Connect: > Storage Snowflake Consumer 7 Kafka Rafka Brookers Comedor Source. Cornector Kalka Connect can be configured using Kalka Connect Bababase Frankwork and can be linked to various sources Frankwork men Teradata, IoT Hobs, Salerfora liker Relational Databaser / L. 1 Twibbery Redcit, File System, Cloud Storage, Hadoop Twibbery Redcit, File System, Carrandon, Mango DB Storage, Elastic Search, & Groogle Fixebore. Kalka Connect Francework! 1. Source Connector j. Sauce Connector 11. Sowra Task 2. Sink Connector j. Sink Commectar 11. Sink Task Kalka Connect is configured has a cluster, each individual unit in the cluster is called a "Connet worker! Connect worker our source Task 18 "Sink Task

Kat ka Storams: Data Streams are unbounded (No definite Starting (or) ending often Infinite & ever growing Sequence of data in small packets (KB). Common Gramples are : 1. Sensons 2. Cog Entries 3. Click stocams 4. Transactions 5. Data Feeds. Stream processing ishould produce most recent version of results from realtime streams all the time. Walka Streams is an effective solution for Stream processing. Kotka Stocomes is a Java/Scala liboary abore the input Data most be in Katka Topic.

5/5 SQL interface to Katka Streams has two modes + 1. Interactive Mode 2. Headless Mode Components + 1. RSQL engine 2. REST interface 3. KSQL Client (CCII/UI) Kalka Solutions Patterns: 1. Data Integration Pattern 2. Microservice Architecture for StreamProcessing 3. Real-time Data Workhousing > Kolka > Duta Lake) Enterprise Solutions 1 Mobile/Web Appro Read of CogsforOB Cloud Systems tominimize Micro Services Thomas. Data Integration Pattern Sensors log Enbries Click Streams Toansactions Data Feeds PAT Movices_-1