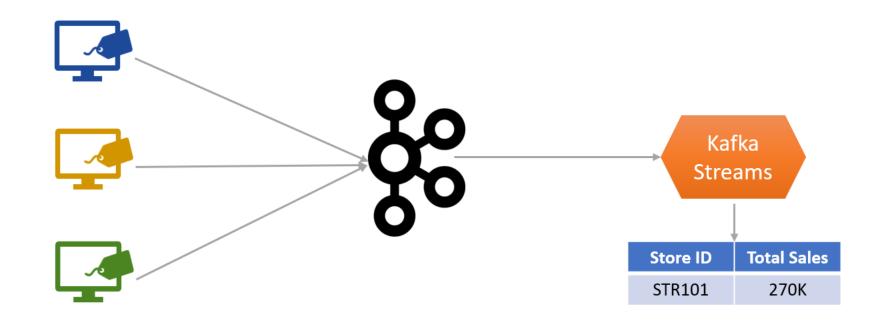
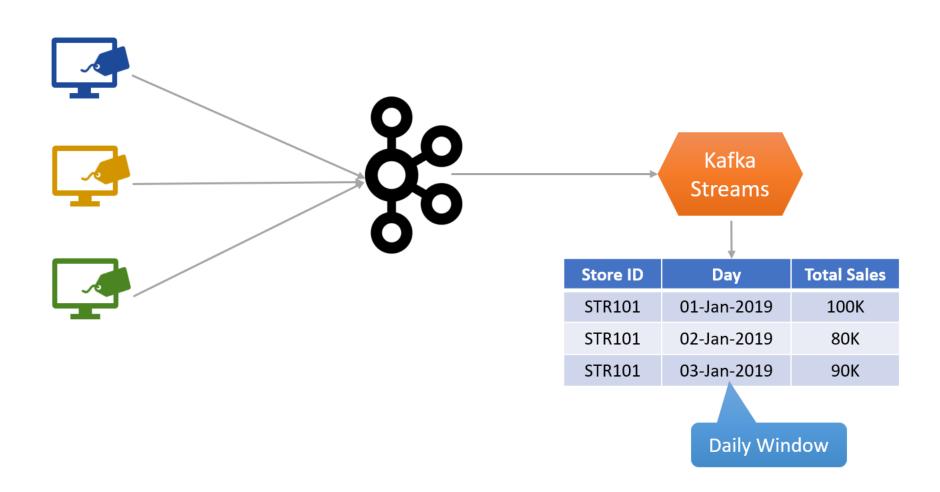


Infinite Aggregation





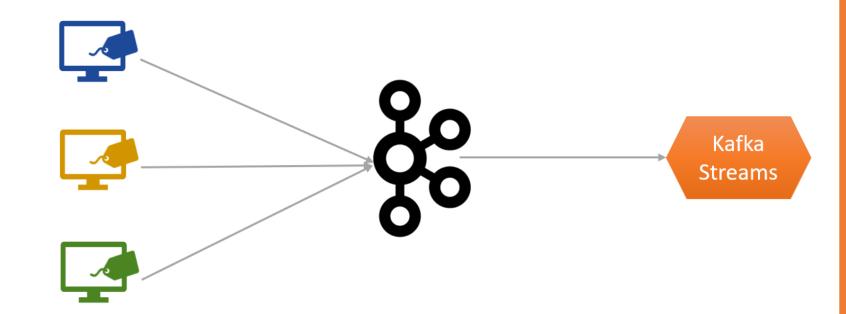
Windowed Aggregation



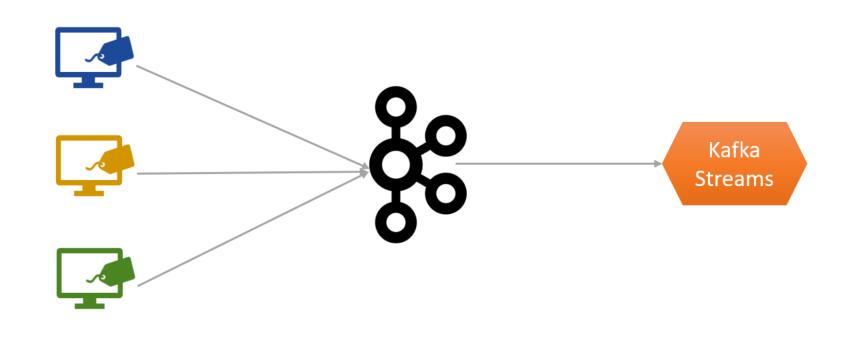


Windowed Aggregation

- 1. Which timestamp?
- 2. How to read time?

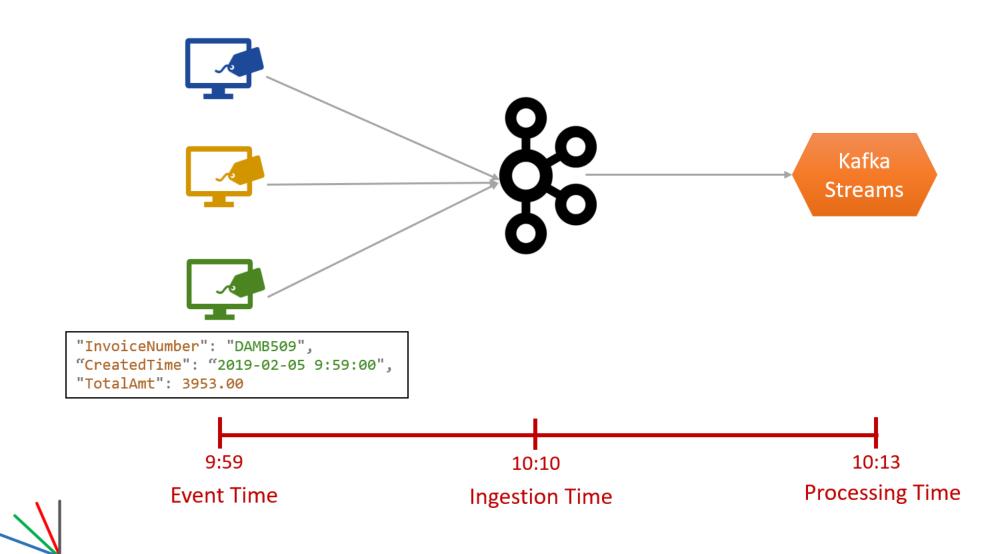




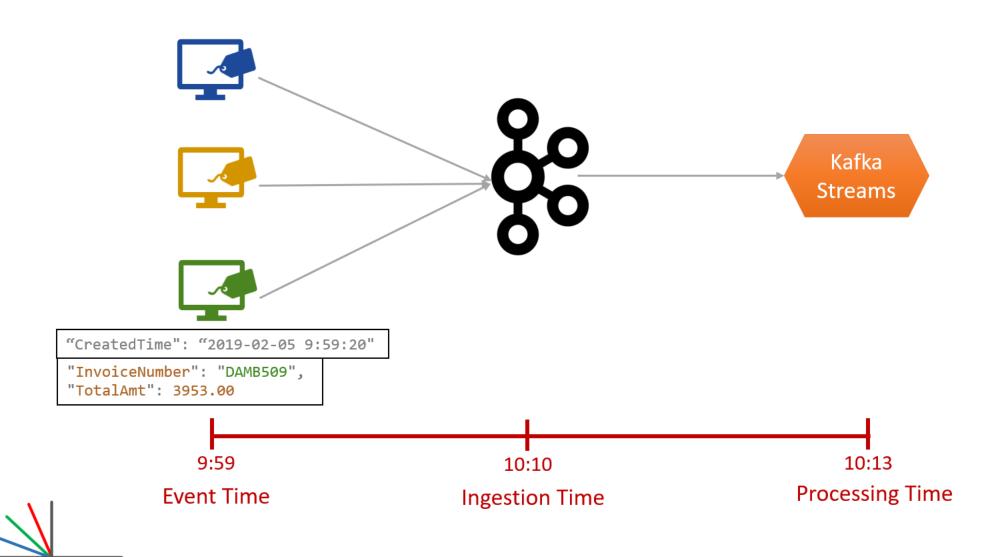




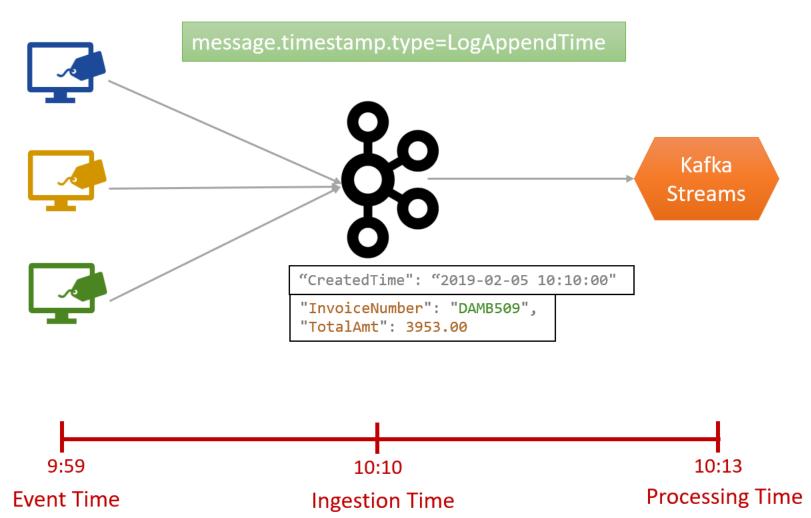




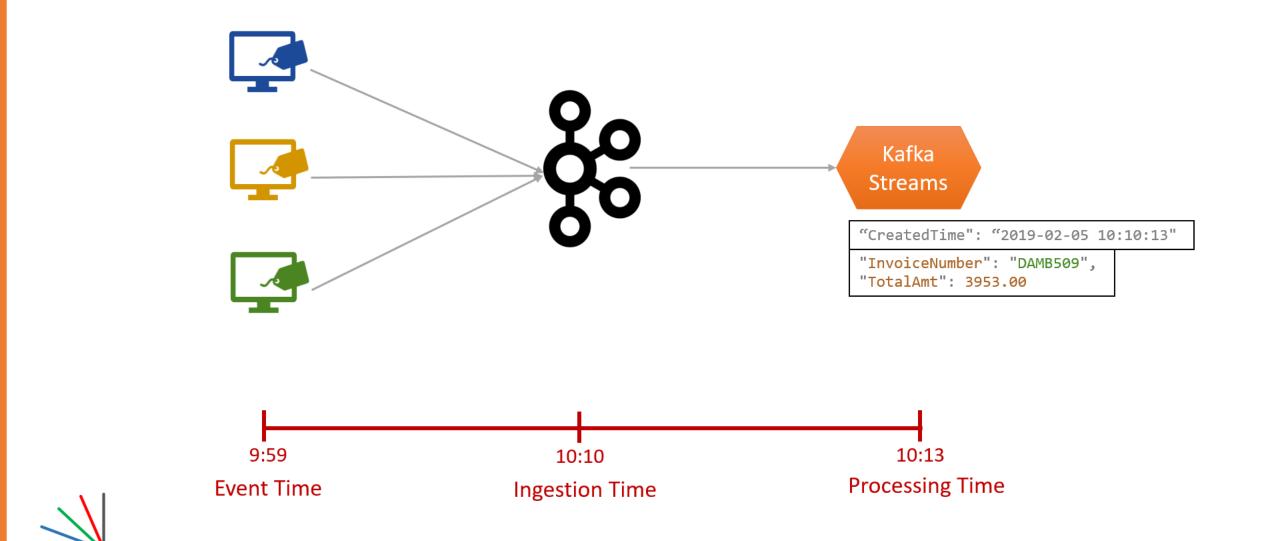
LEARNING JOURNAL



LEARNING JOURNAL







LEARNING JOURNAL

Record Metadata

"CreatedTime": "2019-02-05 10:10:00"

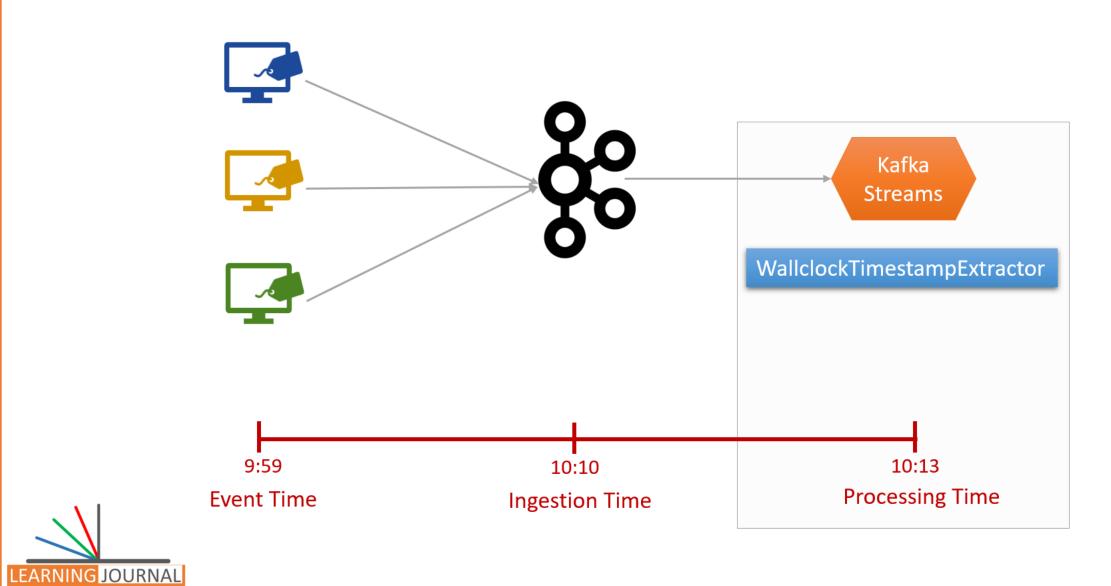
Message Value

"InvoiceNumber": "DAMB509", "CreatedTime": "2019-02-05 9:59:00",

"TotalAmt": 3953.00

props.put(StreamsConfig.DEFAULT_TIMESTAMP_EXTRACTOR_CLASS_CONFIG, WallclockTimestampExtractor.class);





S. No.	Timestamp Extractor	Description
1.	FailOnInvalidTimestamp	Raise exception when timestamp is invalid
2.	LogAndSkipOnInvalidTimestamp	Skip the message if the timestamp is invalid
3.	UsePreviousTimeOnInvalidTimestamp	Use the timestamp of previous message when the timestamp in current message is invalid

1. Event Time

- Use custom timestamp extractor to read time from the message value
- Use above timestamp extractor to read producer time

2. Ingestion Time

Configure the topic for LogAppendTime and use above timestamp extractors

3. Processing Time

Use WallclockTimestampExtractor

