

ITopicMetadata

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Kind: Interface

Source: `packages/microservices/external/kafka.interface.ts`

Part of: [Microservices](#)

`ITopicMetadata` describes Kafka topic metadata returned or consumed by the microservices Kafka integration. It identifies a topic by name and provides metadata for each of its partitions, enabling clients to inspect topic topology and partition-level state.

Properties

Property	Type
<code>name</code>	<code>string</code>
<code>partitions</code>	<code>PartitionMetadata[]</code>

Diagram

```
graph LR
    TopicMetadata["TopicMetadata["ITopicMetadata"]"]
    Name["Name["name: string"]"]
    Partitions["Partitions["partitions: PartitionMetadata[]"]"]

    TopicMetadata --> Name
    TopicMetadata --> Partitions
    Partitions --> Partition1["Partition1["PartitionMetadata"]"]
    Partitions --> PartitionN["PartitionN["PartitionMetadata"]"]
```

Usage

```
import type { ITopicMetadata } from './kafka.interface';

const topicMetadata: ITopicMetadata = {
  name: 'orders.created',
  partitions: [
    {
      partitionId: 0,
      leader: 1,
      replicas: [1, 2, 3],
      isr: [1, 2, 3],
    },
  ],
};

console.log(
  `Topic "${topicMetadata.name}" has ${topicMetadata.partitions.length} partition(s).`,
);
```

AI Coding Instructions

- Always provide a non-empty, valid Kafka topic name in `name` .
- Populate `partitions` with `PartitionMetadata` objects returned by or compatible with the Kafka metadata client.
- Treat partition metadata as a snapshot; refresh it when leader, replica, or partition assignments may have changed.
- Do not assume partition array indexes match partition IDs; use the partition identifier exposed by each `PartitionMetadata` entry.
- Keep this interface aligned with the Kafka adapter's metadata response shape when upgrading Kafka client dependencies.