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Apache Camel Interview Questions

Q1. What is Apache Camel?

Apache Camel is an open-source integration framework for message-oriented middleware with a rule-based routing and mediation engine.It is based on known Enterprise Integration Patterns that provides a Java object-based implementation of Enterprise Integration Patterns using API.

Q2. Enlist few good uses for Apache Camel?

Apache Camel is a good choice when you want to integrate several applications with different protocols and technologies. You can use it with Java, Scala, Groovy or Spring XML.

Q3. What is basic differences between Apache Camel and Kafka?

The difference between the Apache camel and Kafka are:

Apache camel	Kafka
It is basically an open-source framework. It basically or mainly focuses on making things easier. Also, they make the integration process very simple and sorted for the developers.	It has a very unique design messaging system. It is a log service that is distributed and partitioned.
It basically focuses on enterprise integration patterns. Also, it is really and highly configurable.	It has a very high and reliable performance efficiency. Also, it is really scalable.

Q4. What is Processor in Apache Camel?

Processor is Apache Camel is an interface that is used to implement consumers of message exchanges or Message Translator.

Q5. What are Components in Apache Camel?

A **Component in Apache Camel** is a factory or collection of Endpoint instances. We can configure Component instances explicitly and add them to a CamelContext in an IoC container like Spring or Guice. Components can

be auto-discovered using URIs.

Apache Camel provides numerous pre-built components. Below we have listed some important Camel components from the core module.

- Bean
- Direct
- File
- Log
- SEDA
- Timer

For complete list visit: LIST OF CAMEL COMPONENTS

Q6. **What are routes in Apache Camel?**

Routes plays a critical role in Apache Camel. The application flow and logic are specified here.In Camel we can define routing rules using a Java DSL.

Q7. **What is a context in Apache Camel?**

The **context in Apache camel** is a runtime system and loading container for all resources that are required for the execution of the routing. A context contains components and endpoints, type converters, data formats, registry and routing definition.

Q8. **How to rollback transaction in Apache Camel DSL?**

To rollback transaction in **Apache Camel DS**L, you can perform the following steps:

- Remove Spring transaction manager.
- Remove Spring transaction policy.
- Remove transacted() from Camel route.

Q9. **How to start the execution of routes Apache Camel?**

To start the execution of routes Apache Camel, you can perform the following steps:

- Create a CamelContext.
- Optionally, configure components or endpoints.
- Add whatever routing rules you wish using the DSL and RouteBuilder or using XML DSL.

- Start the Camel context.

Q10. [What Are Eips In Apache Camel?](#)

EIPS (ENTERPRISE INTEGRATION PATTERNS) is an architectural design pattern that defines code-agnostic workflows for common business tasks.

Q11. [What is apache jmeter?](#)

JMeter is an Apache project which is employed as a load measuring tool that analyzes the efficiency of a variety of a spread of services, with the most specialized on web applications.

JMeter is also employed as a unit-test means for JDBC database connections, FTP, Web services, JMS, HTTP, and TCP connections and OS native processes and one also can configure JMeter as a monitor, although this is used as a monitoring solution rather than advanced controlling and can be used for functional testing as well. Additionally, Jmeter encourages integration with Selenium which allows it to run automation scripts besides performance or load tests.

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