Apache Kafka Producer

Stereotype Attributes

Kafka Producer Alias

Attribute	Description	Kafka Property	Allowed Values / Examples	
Name	Specify a name for the alias.	-	any string	
Standard				
servers	Provide a list of Kafka brokers with (optional) ports.	bootstrap. servers	**kafka1.acme.com**, **kafka2.acme.com:9092**	
enableIde mpotence	Enables the producer to write a message to Kafka exactly once.	enable. idempotence	**tr ue**	Write message exactly once to the specified p artition of the topic during the lifetime of the producer - without data loss and order per partition (default).
			fa lse	Message may be delivered multiple times on e.g. connection failures.
Advanced				
additionalP roperties	Use this to directly set properties of the Kafka producer. ⓘ Using this attribute, you can also overwrite the dedicated settings above. In this case, • the Compiler will show a warning, • the service will log a warning on startup.		**buffer.memory=67108864**, **retries=4294967294**	
Compression				
compressi onType	Provide a compression codec for compressing message sets.	compressio n.type	**n o ne**	No compression (default).
			g zip	Compress with **gzip**.
Security				
protocolSe curity	Provide the protocol used to communicate with the Kafka brokers.	security. protocol	**p la i n t e xt**	Use plain text (default).
			s sl	Use SSL.
sslPrivate KeyFile	Provide the path to the client's private key file (PEM) to be used for authentication.	ssl.key. location	a valid path	
sslPrivate KeyPassw ord	Provide the password for the private key file.	ssl.key. password	a valid password	
sslPrivate KeyString	Provide the client's private key string (PEM format) to be used for authentication.	ssl.key.pem	a valid key string	

Related Documentation:

- Apache Kafka Documentation

ssIClientCertificateFile	Provide the path to the client's public key file (PEM) to be used for authentication.	ssl.certificate.location	a valid path	
ssIClientCertificateString	Provide the client's public key string (PEM format) to be used for authentication.	ssl.certificate.pem	a valid key string	
ssICALocation	Specify how to find CA certificate(s) for verifying the key of the Kafka broker.	ssl.ca.location	<path>	File or directory path to the CA certificate(s).
			probe	Guess the location of the CA store and try to find the CA certificate(s) automatically.
			bundled	Use the CA bundle provided with PAS.
ssICAString	Provide the CA certificate string (PEM format) to verify the key of the Kafka broker.	ssl.ca.pem	a valid CA certificate string	

Kafka Producer Adapter

Attribute	Description	Allowed Values
alias	Specify the Kafka Producer alias the adapter should use to establish the connection.	any valid Kafka Producer alias

KafkaProducerAdapter Operations

produce

Attribute	Type	Direction	Description
producerRecord	ProducerRecord	in	Provide the message and the target for the adapter to send the message to a Kafka topic.
recordMetaData	RecordMetaData	out	Returns some meta data about the processing the Kafka broker has done.

KafkaProducerAdapter Parameter Types

MessageHeader

Attribute	Type	Description
key	String	Key of the header.
value	Blob	Value of the header.

RecordMetaData

Attribute	Type	Mandatory	Description	Allowed Values / Examples
topic	String	✅	Kafka topic the message has been sent to.	
partition	Integer	✅	Topic partition the message has been sent to.	
offset	Integer	❌	Offset of the message within the partition.	

recordId	Integer	❌	The message ID as provided with the call, or as generated if it has not been specified.		
keySize	Integer	✅	Actual size of the key in bytes.		
valueSize	Integer	✅	Actual size of the value in bytes.		
timestamp	DateTime	❌	A processing timestamp (UTC). See **timestampType** for what the timestamp refers to.		
timestampType	TimestampType	✅	Indicates what the **timestamp** refers to.	Not Available	Timestamp is unknown.
				CreateTime	Timestamp relates to message creation time as set by a Kafka broker.
				LogAppendTime	Timestamp relates to the time a message was appended to a Kafka log.
persistedStatus	PersistedStatus	✅	Status of the message.	Not Persisted	Message was never transmitted to the broker, or failed with an error indicating it was not written to the log.
				Persisted	Message was written to the log and acknowledged by the broker.
				Possibly Persisted	Message was transmitted to broker, but no acknowledgement was received.

ProducerRecord

Attribute	Type	Mandatory	Description
topic	String	✅	Specify the topic the message should be sent do.
partition	Integer	❌	Specify the partition the message should be send to.
key	Blob	❌	Specify a key the message should be filed to.
id	Integer	❌	Will be generated. We recommend not to set one manually.
headers	Array of MessageHeader	❌	Specify headers if you want to provide additional information on the message content for e.g. routing or filtering use cases.
value	Blob	❌	Specify the actual message content. Only payload of type **Blob** is supported.