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How The Kafka Project Handles Clients

Starting with the 0.8 release we are maintaining all but the jvm client external to the main code base. The reason for this is that it allows a small group of implementers who know the language of that client to quickly iterate on their code base on their own release cycle. Having these maintained centrally was becoming a bottleneck as the main committers can't hope to know every possible programming language to be able to perform meaningful code review and testing. This lead to a scenario where the committers were attempting to review and test code they didn't understand.

We are instead moving to the redis/memcached model which seems to work better at supporting a rich ecosystem of high quality clients.

We haven't tried all these clients and can't vouch for them. The normal rules of open source apply.

If you are aware of other clients not listed here (or are the author of such a client), please add it here. Please also feel free to help fill out information on the features the client supports, level of activity of the project, level of documentation, etc.

C/C++

Robust high performance C/C++ library with full protocol support

A bunch of other language bindings has been built on top of it, including Haskell, Node.js, OCaml, PHP, Python, Ruby, C# / .NET.

https://github.com/edenhill/librdkafka

Kafka Version: 0.7.x, 0.8.x, 0.9.x, 0.10.x, 0.11.x
Maintainers: Magnus Edenhill
License: 2-clause BSD

Native C++ library with protocol support for Metadata, Produce, Fetch, and Offset.

Kafka Version: 0.8.x

Maintainer: David Tompkins
License: Apache 2.0

https://github.com/adobe-research/libkafka

C++ Header-only Kafka Client Library using Boost Asio

Kafka Version: 0.8.x

Maintainer: Daniel Joos
License: MIT

https://github.com/danieljoos/libkafka-asio

A C++11 asyncronous producer/consumer library for Apache Kafka based on boost asio

Kafka Version: 0.8.x

Maintainer: Svante Karlsson
License: Boost Software License - Version 1.0

https://github.com/bitbouncer/csi-kafka

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libasynckafkaclient - C++ based single threaded asynchronous library

Kafka Version: 0.8.x

Maintainer: Vijay Jadhav
License: 2-clause BSD

https://github.com/GSLabDev/libasynckafkaclient

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https://github.com/quipo/kafka-cpp

Kafka Version: 0.7.x

Python

High performance Python client based on Librdkafka with full protocol support.

https://github.com/confluentinc/confluent-kafka-python

Docs: http://docs.confluent.io/current/clients/index.html

Kafka Version: 0.8.x, 0.9.x, 0.10.x, 0.11.x

Maintainers: Confluent

License: Apache 2.0

Pure Python implementation with full protocol support. Consumer and Producer implementations included, GZIP, LZ4, and Snappy compression supported.

http://github.com/dpkp/kafka-python

Kafka Version: 0.8.x, 0.9.x, 0.10.x, 0.11.x, 1.0.x

Maintainer: Dana Powers
License: Apache 2.0

Python driver with full protocol support, Pythonic API, and managed balanced consumer implementation.
https://github.com/Parsely/pykafka
Kafka Version: 0.8.x,0.9.x,0.10.x
Maintainer: Parse.ly
License: Apache 2.0

Protocol support for Kafka 0.7 in Python. GZip and Snappy compression supported

Kafka Version: 0.7.x

Maintainer: David Arthur
License: Apache v.2.0

https://github.com/mumrah/kafka-python/tree/0.7

Also:
https://github.com/dsully/pykafka

Kafka Version: 0.7.x

Maintainer:: Dan Sulley, LinkedIn
License: Apache 2.0

Python client from Disqus:
https://github.com/getsamsa/samsa

Kafka Version: 0.7.x

Maintainer:: Keith Bourgoin, Parse.ly
License: Apache 2.0

Python client from Urban Airship: https://github.com/urbanairship/pykafkap

Kafka Version: 0.7.x

Python client from Datadog: https://github.com/datadog/brod
(Producer, Simple Consumer, ZK-Consumer)

Kafka Version: 0.7.x

Go (AKA golang)

Pure Go implementation with full protocol support. Consumer and Producer implementations included, GZIP and Snappy compression supported.

Kafka Version: 0.8.x

Maintainer: Shopify
License: MIT

https://github.com/Shopify/sarama

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confluent-kafka-go: Confluent's Kafka client for Golang wraps the librdkafka C library, providing full Kafka protocol support with great performance and reliability.

The Golang bindings provides a high-level Producer and Consumer with support for the balanced consumer groups of Apache Kafka 0.9 and above.

Kafka Version: 0.8.x, 0.9.x, 0.10.x, 0.11.x

Maintainer: Confluent

License: Apache v2.0

https://github.com/confluentinc/confluent-kafka-go

Docs: http://docs.confluent.io/current/clients/index.html

Pure Go implementation providing full protocol support, great performance, and support for all client facing KIPs.

Kafka Version: 0.8.0+

Maintainer: Travis Bischel

License: MIT

kafka-go repo

Docs: https://pkg.go.dev/github.com/twmb/kafka-go/pkg/kgo

Erlang

Kafka client library in Erlang. Full support for 0.9+ consumer protocol, very efficient producer implementation.

https://github.com/klarna/brod

Kafka Version: 0.9.x, 0.10.x

Maintainers: Ivan Dyachkov (Klarna AB), Shi Zaiming (Klarna AB)

License: Apache 2.0

A minimal, high-performance Kafka client in Erlang

https://github.com/helpshift/ekaf

Kafka Version: 0.8.x

Maintainer: Helpshift
License: Apache v2

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erlkafka is a kafka client written in erlang

https://github.com/milindparikh/erlkafka.git

Kafka Version: 0.7.x

Maintainer: Milind Parikh
*License: BSD, LGPL

Also:
https://github.com/wooga/kafka-erlang

PowerShell

PowerShell client supporting Producer, Consumer, Admin; plus from PowerShell it is possible to run all tools available.

Full list of available cmdlets on KNet PowerShell usage

Kafka Version: 3.6.0

Maintainer: MASES s.r.l.

License: Apache 2.0

https://github.com/masesgroup/KNet

Direct link: https://www.powershellgallery.com/packages/MASES.KNetPS

.NET

KNet is a comprehensive .NET suite for Apache Kafka providing all features: Producer, Consumer, Admin, Streams, Connect, backends (ZooKeeper and Kafka).

Kafka Version: 3.6.0

Maintainer: MASES s.r.l.

License: Apache 2.0

https://github.com/masesgroup/KNet

A fully featured .NET client for Apache Kafka based on librdkafka (a fork of rdkafka-dotnet).

Kafka Version: 0.8.x, 0.9.x, 0.10.x, 0.11.x

Maintainer: Confluent Inc. (original author Andreas Heider)

License: Apache 2.0

https://github.com/confluentinc/confluent-kafka-dotnet

Pure C# client with full protocol support. Includes consumer, producer,

lower level components and gzip support (no snappy)

Kafka Version: 0.8.x

Maintainer: James Roland

License: Apache 2.0

https://github.com/Jroland/kafka-net

This is a .NET implementation of a client for Kafka using C# for Kafka 0.8. It provides for an implementation that covers most basic functionalities to include a simple Producer and Consumer.

Kafka Version: 0.8.x

Maintainer: ExactTarget

License: Apache 2.0

https://github.com/ExactTargetDev/kafka-net

.Net implementation of the Apache Kafka Protocol that provides basic functionality through Producer/Consumer classes. The project also offers balanced consumer implementation. The project is a fork from ExactTarget's Kafka-net Client.

Kafka Version: 0.8.x, 0.9.x

Maintainer: Microsoft

License: Apache 2.0

https://github.com/Microsoft/Kafkanet

C# client, asynchronous, all 3 compressions supported (read and write), tracks leader partition changes transparently, long time in production.

Kafka Version: 0.8.x

Maintainer: Vadim Chekan
License: Apache-2.0
https://github.com/ntent-ad/kafka4net

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kafka-sharp - "High Performance" .NET Kafka Driver

Kafka Version: 0.8.x

Maintainer: Criteo

License: Apache 2.0

https://github.com/criteo/kafka-sharp

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kafunk - Fully-featured, native F# client which works on .NET Core

Kafka Version: 0.8.x, 0.9.x, 0.10.x

Maintainer: Jet.com

License: Apache 2.0

https://github.com/jet/kafunk

Clojure

Fast kafka api for JVM languages implemented in clojure.

Kafka Version: 0.8.x

Maintainer: https://github.com/gerritjvv

License: Apache 2.0

https://github.com/gerritjvv/kafka-fast

Wrapper to the Java API for interacting with Kafka

Kafka Version: 0.8.x

Maintainer: https://github.com/pingles

License: Apache 2.0

https://github.com/pingles/clj-kafka/

Kafka clojure client library

Kafka Version: 0.8.x

Maintainer: Pierre-Yves Ritschard

License: MIT

Code, Documentation

Ruby

Karafka - Ruby and Rails multi-threaded efficient Kafka processing framework. Based on librdkafka.

Kafka Version: 1.0+

Maintainer: Maciej Mensfeld

License: LGPL-3.0

https://github.com/karafka/karafka

WaterDrop - Standalone Karafka library for producing Kafka messages . Based on librdkafka.

Kafka Version: 1.0+

Maintainer: Maciej Mensfeld

License: MIT

https://github.com/karafka/waterdrop

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rdkafka - Modern low-level Kafka client library for Ruby based on librdkafka

Kafka Version: 1.0+

Maintainer: Maciej Mensfeld

License: MIT

https://github.com/karafka/rdkafka-ruby

Racecar – A simple framework for writing Kafka consumers in Ruby that integrates nicely with Rails. Based on ruby-kafka.

Kafka Version: 0.9.x, 0.10.x, 0.11.x

Maintainer: Zendesk / Daniel Schierbeck

License: Apache 2.0

https://github.com/zendesk/racecar

DeliveryBoy – A simple way to publish messages to Kafka from Ruby applications. Based on ruby-kafka.

Kafka Version: 0.9.x, 0.10.x, 0.11.x

Maintainer: Zendesk / Daniel Schierbeck

License: Apache 2.0

https://github.com/zendesk/delivery_boy

Node.js

The node-rdkafka library is a high-performance NodeJS client for Apache Kafka that wraps the native librdkafka library. All the complexity of balancing writes across partitions and managing (possibly ever-changing) brokers should be encapsulated in the library.

https://github.com/Blizzard/node-rdkafka

Kafka Version: 0.9, 0.10

Node.js >= 4

Maintainer: Blizzard.com

License: MIT

Kafka-Node is a NodeJS client with Zookeeper integration

Kafka Version: 0.8.x

Maintainer: sohu.com

License: MIT

https://github.com/SOHU-Co/kafka-node/

Kafka-node is a pure JavaScript implementation for NodeJS Server with Vagrant and Docker support.

Kafka Version: 0.8.x

Maintainer: wurstmeister
License: Apache 2.0

https://github.com/wurstmeister/node-kafka-0.8-plus

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kafka-java-bridge is a Nodejs wrapper for the JAVA high level kafka 0.8. consumer API

Kafka Version: 0.8.x

Maintainer: LivePersonInc

License: MIT

https://www.npmjs.com/package/kafka-java-bridge

https://github.com/LivePersonInc/kafka-java-bridge

Low-level protocol support in node.js.

https://github.com/cainus/Prozess
https://npmjs.org/package/prozess

Kafka Version: 0.7.x

Maintainers:
Gregg Caines
Eric lee
License: MIT

Alternate node client from Tagged
https://github.com/marcuswestin/node-kafka

Also:
https://github.com/dannycoates/franz-kafka

Kafka Version: 0.7.x

Proxy (HTTP REST, etc)

Dory is a producer daemon that supports clients in various programming languages. Clients send messages to Dory using local interprocess communication. Dory then takes full responsibility for reliable message delivery. Monitoring infrastructure can query Dory's web interface for JSON-based status and data quality reports.

https://github.com/dspeterson/dory

Kafka Version: 0.8.x, 0.9.x, 0.10.x, 0.11.x

Maintainer: Dave Peterson
License: Apache v.2.0

Apache Kafka HTTP Endpoint for producing and consuming messages from topics

Kafka Version: 0.8.x

Maintainer: Big Data Open Source Security LLC
License: Apache 2.0

https://github.com/stealthly/dropwizard-kafka-http

(Deprecated) Kafka high level Producer and Consumer APIs are very hard to implement right. Rest endpoint gives access to native Scala high level consumer and producer APIs.

Maintainer: Sasha Klizhentas
License: Apache 2.0

https://github.com/mailgun/kafka-http

The Kafka REST Proxy provides a RESTful interface to a Kafka cluster.

Kafka Version: 0.8.x, 0.9.x, 0.10.x

Maintainer: Confluent
License: Apache 2.0

- Docs: https://docs.confluent.io/current/kafka-rest/docs/index.html
- Code: https://github.com/confluentinc/kafka-rest

Kafka-Pixy is a local aggregating HTTP proxy to Kafka messaging cluster.

Kafka Version: 0.8.x

Maintainer: Mailgun
License: Apache 2.0

https://github.com/mailgun/kafka-pixy

Efficient Kafka REST Proxy for producers

https://github.com/klarna/kastle

Kafka Version: 0.8.x

Maintainers: Ivan Dyachkov (Klarna AB), Shi Zaiming (Klarna AB)
License: Apache 2.0

Full featured HTTP REST Proxy for Kafka in Elixir with fine grained JWT-based authentication

https://github.com/klarna/kastlex

Kafka Version: 0.8.x

Maintainers: Ivan Dyachkov (Klarna AB), Shi Zaiming (Klarna AB)
License: Apache 2.0

Perl

Pure Perl, Consumer and Producer implementations included. Zookeeper
integration. GZIP and Snappy compression supported.

Kafka Version: 0.8.x
Maintainer: Sergey Gladkov
License: Artistic License

https://github.com/TrackingSoft/Kafka
http://search.cpan.org/~sgladkov/Kafka/lib/Kafka.pm

stdin/stdout

Generic producer and consumer for stdin and stdout.

https://github.com/edenhill/kafkacat

Kafka Version: 0.8.x

Maintainer: Magnus Edenhill
License: 2-clause BSD

PHP

PHP extension built on librdkafka

Kafka Version: 0.8.x

Maintainer: Elias Van Ootegem
License: MIT

https://github.com/EVODelavega/phpkafka

PHP client based on librdkafka

Kafka Version: 0.8.x

Maintainer: Arnaud Le Blanc, for Mention.com
License: MIT

https://github.com/arnaud-lb/php-rdkafka

PHP library with Consumer (simple and Zookeeper-based), Producer and compression support (release notes).

https://github.com/quipo/kafka-php

Kafka Version: 0.7.x

Maintainer: Lorenzo Alberton
License: Apache v.2.0

Also:

https://github.com/michal-harish/kafka-php

Log4PHP Appender

https://github.com/dastra/log4php-kafka

Rust

Pure Rust implementation with support for Metadata, Produce, Fetch, and Offset requests. Supports Gzip and Snappy compression

Kafka Version: 0.8.x

Maintainer: Yousuf Fauzan
License: MIT

Code
Documentation

Alternative Java

Of course the main project maintains a set of jvm-based clients. But here are alternate clients.

Krackle is an optimized Kafka client built by Blackberry.

Kafka Version: 0.8.x

Maintainer: Blackberry

License: Apache 2.0

https://github.com/blackberry/Krackle/blob/dev/LICENSE

Storm

Port of Apache storm-kafka to >= 0.8.0

Maintainer: wurstmeister
License: Apache 2.0

https://github.com/wurstmeister/storm-kafka-0.8-plus

Scala DSL

A DSL for Scala developers to produce and consume messages with Kafka.

Kafka Version: 0.8.x

Maintainer: Big Data Open Source Security LLC
License: Apache 2.0

https://github.com/stealthly/scala-kafka

Clojure

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https://github.com/pingles/clj-kafka

https://github.com/miniway/kafka-clj

Kafka Version: 0.7.x

Swift

Pure Swift implementation of Producer + Simple and High-Level Consumer

Kafka Version: 0.9.x

Maintainer: Kellan Cummings, Luke Lau
License: MIT

https://github.com/kellanburket/franz

Client Libraries Previously Supported

https://svn.apache.org/repos/asf/incubator/kafka/branches/legacy_client_libraries