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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 led 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 asynchronous 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>

libasynckafkaclient - C++ based single threaded asynchronous library

Kafka Version: 0.8.x

Maintainer: Vijay Jadhav
License: 2-clause BSD

<https://github.com/GSLabDev/libasynckafkaclient>

<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 Bourgoïn, [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>

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

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>

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

Kafka Version: 0.8.x

Maintainer: [Criteo](#)

License: Apache 2.0

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

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/gerritjv>

License: Apache 2.0

<https://github.com/gerritjv/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>

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>

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

<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