

# Clients

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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++

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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](#)

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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>

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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>

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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

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## Python

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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/Parse.ly/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

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

**Kafka Version:** 0.7.x

## Go (AKA golang)

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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>

-----

Enhanced Go Kafka consumer and producer implementations.

**Kafka Version:** 0.8.x

**Maintainer:** [Big Data Open Source Security](#)

**License:** Apache v2.0

[https://github.com/stealthly/go\\_kafka\\_client](https://github.com/stealthly/go_kafka_client)

-----

A pure Go implementation of the low level Kafka API.

**Kafka Version:** 0.8.x

**Maintainer:** [Big Data Open Source Security](#)

**License:** Apache v2.0

<https://github.com/stealthly/siesta>

-----

A fast pure Go Kafka implementation with a clean API.

**Kafka Version:** 0.8.x

**Maintainer:** [OptioPay](#)

**License:** MIT

<https://github.com/optiopay/kafka>

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<https://github.com/nuance/kafka>

<https://github.com/jdamick/kafka.go>

**Kafka Version:** 0.7.x

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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>

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# 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>

# .NET

-----  
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>

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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>

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# Clojure

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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](#)

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# Ruby

---

ruby-kafka - A pure Ruby client library for the Kafka distributed log system.

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

**Maintainer:** [Zendesk/ Daniel Schierbeck](#)

**Licence:** Apache 2.0

<https://github.com/zendesk/ruby-kafka>

-----

Karafka - Framework used to simplify Apache Kafka based Ruby and Rails applications development. Karafka provides higher abstraction layers, including Capistrano, Docker and Heroku support. Based on ruby-kafka.

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

**Maintainer:** [Maciej Mensfeld](#)

**Licence:** MIT

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

-----

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](#)

**Licence:** 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](#)

**Licence:** Apache 2.0

[https://github.com/zendesk/delivery\\_boy](https://github.com/zendesk/delivery_boy)

-----

JRuby wrapper for producers and consumers of the existing API

**Kafka Version:** 0.8.x

**Maintainer:** [Joseph Lawson](#)

**License:** Apache 2.0

<https://github.com/joekiller/jruby-kafka>

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[Unmaintained] Pure Ruby, Consumer and Producer implementations included, GZIP and Snappy compression supported. Ruby 1.9.3 and up (CI runs MRI 2.0, JRuby and Rubinius).

**Kafka Version:** 0.8.x

**Maintainer:** [Bob Potter](#)

**License:** MIT

<https://github.com/bpot/poseidon>

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<https://github.com/acrosa/kafka-rb>

**Kafka Version:** 0.7.x

**Maintainer:** Alejandro Crosa

**License:** Apache 2.0

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Event machine client:

<https://github.com/groupme/em-kafka>

**Kafka Version:** 0.7.x

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JRuby Event stream processor

<https://github.com/wooga/kafkaesque>

**Kafka Version:** 0.7.x

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## Node.js

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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](http://Blizzard.com)

**License:** MIT

-----

Kafka-Node is a NodeJS client with Zookeeper integration

**Kafka Version:** 0.8.x

**Maintainer:** [sohu.com](http://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>

-----

Node-kafka is a node.js wrapper for the C library librdkafka

**Kafka Version:** 0.8.x

**Maintainer:** Sutoiku

**License:** MIT

<https://github.com/sutoiku/node-kafka>

-----

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

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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>

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# 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

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