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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++

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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

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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

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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

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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

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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

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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

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

Kafka Version: 0.7.x
Maintainer: Dan Sulley, LinkedIn
License: Apache 2.0

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

Kafka Version: 0.7.x
Maintainer: Keith Bourgoin, Parse.ly
License: Apache 2.0

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

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

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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

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
Kafka Version: 0.7.x
Maintainer: Milind Parikh
License: BSD, LGPL

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

PowerShell

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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

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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

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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

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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
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](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](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/intent-ad/kafka4net](https://github.com/intent-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](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](https://github.com/jet/kafunk)
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**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

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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/

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Kafka clojure client library

**Kafka Version:** 0.8.x  
**Maintainer:** Pierre-Yves Ritschard  
**License:** MIT  
[Code, Documentation]

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**Ruby**

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

**Kafka Version:** 1.0+  
**Maintainer:** Maciej Mensfeld  
**License:** LGPL-3.0
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

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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

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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

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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
License: MIT

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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/

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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

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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

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

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

Kafka Version: 0.7.x

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Proxy (HTTP REST, etc)

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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

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(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

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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

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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

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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

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**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

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**PHP**

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PHP extension built on librdkafka

**Kafka Version**: 0.8.x

**Maintainer**: Elias Van Ootegem
**License**: MIT

https://github.com/EVODelavega/phpkafka

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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

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

https://github.com/quipol/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
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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
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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
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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

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**Clojure**

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

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

**Kafka Version:** 0.7.x

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**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

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**Client Libraries Previously Supported**

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