

Release Plan 2.2.0 (Feb 2019)

Release Dates

- KIP Freeze: Jan 24, 2019 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: Jan 31, 2019 (major features merged & working on stabilization, minor features have PR, release branch cut; anything not in this state will be automatically moved to the next release in JIRA)
- Code Freeze: Feb 15, 2019
- Release: Feb 28, 2019 (target); Mar 22, 2019 (actual)

These dates are goals and subject to change, but we expect to stay on the [Time Based Release Plan](#) unless unexpected critical issues come up. While the target release date is fixed at ~2w after code freeze, RCs will roll out as needed until the release vote passes.

The release manager is [Matthias Sax](#).

Release Features

This is a list of key features/improvements/bugfixes that we can include with release notes:

- Added SSL support for custom principle name
- Allow SASL connections to periodically re-authenticate
- Improved consumer group management
 - default group.id is `null` instead of empty string
- Allow clients to suppress auto-topic-creation
- API improvement
 - Producer: introduce close(Duration)
 - AdminClient: introduce close(Duration)
 - Kafka Streams: new flatTransform() operator in Streams DSL
 - KafkaStreams (and other classed) now implement AutoClosable to support try-with-resource
 - New Serdes and default method implementations
 - Kafka Streams exposed internal client.id via ThreadMetadata
- Metric improvements: All `-min`, `-avg` and `-max` metrics will now output `NaN` as default value

How to Contribute

Before code freeze:

- Participate in votes and discussions to land or postpone the open KIPs.
- Review patches. We anticipate that this release will be bottlenecked mostly on reviews. The more reviewers, the more content we can fit in.
- Write unit/integration/system tests. We want to preserve the tradition of high-quality releases in Apache Kafka.

After code freeze:

- Write more unit/integration/system tests. We want to preserve the tradition of high-quality releases in Apache Kafka.
- Improve documentation
- Test the release candidates
- Open blocker JIRAs on critical issues found. Open non-blocker JIRAs on any other issues found.
- Fix critical bugs
- Review bug fixes
- Vote on RCs. Even though only PMC votes are binding, community votes are super important as we evaluate the readiness of the release

Open Issues

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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JQL and issue key arguments for this macro require at least one Jira application link to be configured

Also feel free to refer to this release [page](#) for more details of the included tickets.

Planned KIP Content

Note: The planned content is not binding - final content will be based the features committed by branch-cutting date. See [Kafka Improvement Proposals](#) for the full list of KIPs.

KIP	JIRA	Component	Committer	Comment
KIP-183 - Change PreferredReplicaLeaderElectionCommand to use AdminClient	 Unable to render Jira issues macro, execution error.	Core, AdminClient	Colin McCabe	
KIP-207: Offsets returned by ListOffsetsResponse should be monotonically increasing even during a partition leader change	 Unable to render Jira issues macro, execution error.	Core	Colin McCabe	
KIP-289: Improve the default group id behavior in KafkaConsumer	 Unable to render Jira issues macro, execution error.	Clients		
KIP-291: Separating controller connections and requests from the data plane	 Unable to render Jira issues macro, execution error.	Core		
KIP-313: Add KStream.flatTransform and KStream.flatTransformValues	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	partially implemented in v2.2
KIP-367 Introduce close(Duration) to Producer and AdminClient instead of close(long, TimeUnit)	 Unable to render Jira issues macro, execution error.	Clients, AdminClient	Colin McCabe	

KIP-368: Allow SASL Connections to Periodically Re-Authenticate	 Unable to render Jira issues macro, execution error.	Broker,Clients	Rajini Sivaram	
KIP-371: Add a configuration to build custom SSL principal name	 Unable to render Jira issues macro, execution error.	Core		
KIP-374: Add '--help' option to all available Kafka CLI commands	 Unable to render Jira issues macro, execution error.	Tools		
KIP-376: Implement AutoClosable on appropriate classes that want to be used in a try-with-resource statement	 Unable to render Jira issues macro, execution error.	Streams		
KIP-377: TopicCommand to use AdminClient	 Unable to render Jira issues macro, execution error.	AdminClient	Manikumar Reddy O.	
KIP-380: Detect outdated control requests and bounced brokers using broker generation	 Unable to render Jira issues macro, execution error.	Core		
KIP-386: Standardize on Min/Avg/Max metrics' default value	 Unable to render Jira issues macro, execution error.	Clients, Streams		
KIP-389: Introduce a configurable consumer group size limit	 Unable to render Jira issues macro, execution error.	Core	Jason Gustafson	

KIP-393: Time windowed serde to properly deserialize changelog input topic	 Unable to render Jira issues macro, execution error.	Streams		
KIP-394: Require member.id for initial join group request	 Unable to render Jira issues macro, execution error.	Clients		
KIP-414: Expose Embedded ClientIds in Kafka Streams	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	
KIP-420: Add Single Value Fetch in Session Stores	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	

Postponed to subsequent release

KIP	JIRA	Component	Committer	Comment
KIP-81: Bound Fetch memory usage in the consumer	 Unable to render Jira issues macro, execution error.	Clients	Jason Gustafson	

KIP-149: Enabling key access in ValueTransformer, ValueMapper, and ValueJoiner	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Streams		partially implemented in v1.1
KIP-150 - Kafka-Streams Cogroup	 Unable to render Jira issues macro, execution error.	Streams		
KIP-258: Allow to Store Record Timestamps in RocksDB	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	
KIP-313: Add KStream.flatTransform and KStream.flatTransformValues	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	partially implemented in v2.2

KIP-320: Allow fetchers to detect and handle log truncation	 Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error.	Core	Jason Gustafson	partially implemented in v2.1
KIP-328: Ability to suppress updates for KTables	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	partially implemented in v2.1
KIP-331 Add default implementation to close() and configure() for Serializer, Deserializer and Serde	 Unable to render Jira issues macro, execution error.	Core, Streams	guozhang Wang	
KIP-339: Create a new IncrementalAlterConfigs API	 Unable to render Jira issues macro, execution error.	AminClient	Colin McCabe	
KIP-341: Update Sticky Assignor's User Data Protocol	 Unable to render Jira issues macro, execution error.	Clients	Jason Gustafson	
KIP-351: Add --under-min-isr option to describe topics command	 Unable to render Jira issues macro, execution error.	Tools	Gwen Shapira	
KIP-359: Verify leader epoch in produce requests	 Unable to render Jira issues macro, execution error.	Broker, Clients	Jason Gustafson	

KIP-361: Add Consumer Configuration to Disable Auto Topic Creation	 Unable to render Jira issues macro, execution error.	Clients	Jason Gustafson	
KIP-379: Multiple Consumer Group Management	 Unable to render Jira issues macro, execution error.	Tools	Gwen Shapira	