

Release Plan 2.0.0 (June 2018)

Release Dates

- KIP Freeze: May 22, 2018 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: May 29, 2018 (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: June 12, 2018 (first RC created now)
- Release: June 26, 2018 (Tentatively)

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 [Rajini Sivaram](#).

Release Features

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

- Prefixed wildcard ACLs (KIP-290), Fine grained ACLs for CreateTopics (KIP-277)
- SASL/OAUTHBEARER implementation (KIP-255)
- Improved quota communication and customization of quotas (KIP-219, KIP-257)
- Efficient memory usage for down conversion (KIP-283)
- Fix log divergence between leader and follower during fast leader failover (KIP-279)
- Drop support for Java 7 and remove deprecated code (e.g old scala clients)
- Connect REST extension plugin, support for externalizing secrets and improved error handling (KIP-285, KIP-297, KIP-298 etc.)
- Scala API for Kafka Streams and other Streams API improvements (KIP-270, KIP-150, KIP-245, KIP-251 etc.)

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



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 (reviewer)
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KIP-86: Configurable SASL callback handlers	 Unable to render Jira issues macro, execution error.	Security	Jun Rao
KIP-118: Drop Support for Java 7	 Unable to render Jira issues macro, execution error.	All	Ewen Cheslack-Postava
KIP-174 - Deprecate and remove internal converter configs in WorkerConfig	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
KIP-176: Remove deprecated new-consumer option for tools	 Unable to render Jira issues macro, execution error.	Tools	Ismael Juma Juma
KIP-186: Increase offsets retention default to 7 days	 Unable to render Jira issues macro, execution error.	Broker	Jason Gustafson
KIP-219 - Improve quota communication	 Unable to render Jira issues macro, execution error.	Broker,Clients	Dong Lin
KIP-222 - Add Consumer Group operations to Admin API	 Unable to render Jira issues macro, execution error.	AdminClient	guozhang Wang
KIP-223 - Add per-topic min lead and per-partition lead metrics to KafkaConsumer	 Unable to render Jira issues macro, execution error.	Consumer	Jun Rao
KIP-237: More Controller Health Metrics	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao

KIP-244: Add Record Header support to Kafka Streams Processor API	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-245: Use Properties instead of StreamsConfig in KafkaStreams constructor	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-249: Add Delegation Token Operations to KafkaAdminClient	 Unable to render Jira issues macro, execution error.	AdminClient	Jun Rao
KIP-251: Allow timestamp manipulation in Processor API	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax
KIP-255 OAuth Authentication via SASL/OAUTHBEARER	 Unable to render Jira issues macro, execution error.	Security	Rajini Sivaram
KIP-257 - Configurable Quota Management	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao
KIP-261: Add Single Value Fetch in Window Stores	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-265: Make Windowed Serde to public APIs	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-266: Fix consumer indefinite blocking behavior	 Unable to render Jira issues macro, execution error.	Consumer	Jason Gustafson

KIP-267: Add Processor Unit Test Support to Kafka Streams Test Utils	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax
KIP-268: Simplify Kafka Streams Rebalance Metadata Upgrade	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax
KIP-270 - A Scala Wrapper Library for Kafka Streams	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-272: Add API version tag to broker's RequestsPerSec metric	 Unable to render Jira issues macro, execution error.	Broker	Jason Gustafson
KIP-274: Kafka Streams Skipped Records Metrics	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-276 Add StreamsConfig prefix for different consumers	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-277 - Fine Grained ACL for CreateTopics API	 Unable to render Jira issues macro, execution error.	Security	Ismael Juma Juma
KIP-278 - Add version option to Kafka's commands	 Unable to render Jira issues macro, execution error.	Tools	Jason Gustafson
KIP-279: Fix log divergence between leader and follower after fast leader fail over	 Unable to render Jira issues macro, execution error.	Broker	Jun Rao

KIP-281: ConsumerPerformance: Increase Polling Loop Timeout and Make It Reachable by the End User	 Unable to render Jira issues macro, execution error.	Tools	Jason Gustafson
KIP-282: Add the listener name to the authentication context	 Unable to render Jira issues macro, execution error.	Security	Ismael Juma Juma
KIP-283: Efficient Memory Usage for Down-Conversion	 Unable to render Jira issues macro, execution error.	Broker	Jason Gustafson
KIP-284: Set default retention ms for Streams repartition topics to Long.MAX_VALUE	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax
KIP-285: Connect Rest Extension Plugin	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
KIP-290: Support for Prefixed ACLs	 Unable to render Jira issues macro, execution error.	Security	Jun Rao
KIP-292: Add transformValues() method to KTable	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-294 - Enable TLS hostname verification by default	 Unable to render Jira issues macro, execution error.	Security	Ismael Juma Juma
KIP-295: Add Streams Configuration Allowing for Optional Topology Optimization	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax

KIP-297: Externalizing Secrets for Connect Configurations	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
KIP-298: Error Handling in Connect	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava
KIP-303: Add Dynamic Routing in Streams Sink	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang
KIP-305: Add Connect primitive number converters	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava

Postponed to subsequent release

KIP	JIRA	Component	Committer
KIP-81: Bound Fetch memory usage in the consumer	 Unable to render Jira issues macro, execution error.	Consumer	Jason Gustafson
KIP-91 Provide Intuitive User Timeouts in The Producer	 Unable to render Jira issues macro, execution error.	Producer	
KIP-150 - Kafka-Streams Cogroup	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax
KIP-158: Kafka Connect should allow source connectors to set topic-specific settings for new topics	 Unable to render Jira issues macro, execution error.	Connect	Ewen Cheslack-Postava

KIP-183 - Change PreferredReplicaLeaderElectionCommand to use AdminClient	 Unable to render Jira issues macro, execution error.	AdminClient	Jun Rao
KIP-206: Add support for UUID serialization and deserialization	 Unable to render Jira issues macro, execution error.	Clients	Ewen Cheslack-Postava
KIP-207: Offsets returned by ListOffsetsResponse should be monotonically increasing even during a partition leader change	 Unable to render Jira issues macro, execution error.	Broker	
KIP-211: Revise Expiration Semantics of Consumer Group Offsets	 Unable to render Jira issues macro, execution error.	Consumer	Jason Gustafson
KIP-235: Add DNS alias support for secured connection	 Unable to render Jira issues macro, execution error.	Clients	Ismael Juma Juma
KIP-306: Configuration for Delaying Response to Failed Client Authentication	 Unable to render Jira issues macro, execution error.	Broker	Rajini Sivaram