

Release Plan 2.5.0 (Feb 2020)

Release Dates

- KIP Freeze: Jan 22, 2020 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: Jan 29, 2020 (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 12, 2020
- ~~Release: Feb 26, 2020~~ TBD

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 [David Arthur](#).

Planned KIPs

KIP	JIRA	Component
KIP-150 - Kafka-Streams Cogroup	 Unable to render Jira issues macro, execution error.	Streams
KIP-352: Distinguish URPs caused by reassignment	 Unable to render Jira issues macro, execution error.	Core
	 Unable to render Jira issues macro, execution error.	
	 Unable to render Jira issues macro, execution error.	
KIP-360: Improve reliability of idempotent /transactional producer	 Unable to render Jira issues macro, execution error.	Core/Clients
KIP-396: Add Reset/List Offsets Operations to AdminClient	 Unable to render Jira issues macro, execution error.	Clients

KIP-447: Producer scalability for exactly once semantics (partial)	 Unable to render Jira issues macro, execution error.	Streams
KIP-455: Create an Administrative API for Replica Reassignment	 Unable to render Jira issues macro, execution error.	Core
KIP-511: Collect and Expose Client's Name and Version in the Brokers (new metrics)	 Unable to render Jira issues macro, execution error.	Core/Clients
KIP-515: Enable ZK client to use the new TLS supported authentication	 Unable to render Jira issues macro, execution error.	Core
KIP-523: Add KStream#toTable to the Streams DSL	 Unable to render Jira issues macro, execution error.	Streams
KIP-524: Allow users to choose config source when describing configs	 Unable to render Jira issues macro, execution error.	Core
KIP-526: Reduce Producer Metadata Lookups for Large Number of Topics	 Unable to render Jira issues macro, execution error.	Clients
KIP-527: Add VoidSerde to Serdes	 Unable to render Jira issues macro, execution error.	Streams
KIP-530: Consider renaming 'UsePreviousTimeOnInvalidTimeStamp' class to 'UsePartitionTimeOnInvalidTimeStamp'	 Unable to render Jira issues macro, execution error.	Streams

KIP-531: Drop support for Scala 2.11 in Kafka 2.5	 Unable to render Jira issues macro, execution error.	Core
KIP-535: Allow state stores to serve stale reads during rebalance	 Unable to render Jira issues macro, execution error.	Streams
KIP-537: Increase default zookeeper session timeout	 Unable to render Jira issues macro, execution error.	Core
KIP-538: Add a metric tracking the number of open connections with a given SSL cipher type	 Unable to render Jira issues macro, execution error.	Core
KIP-541: Create a fetch.max.bytes configuration for the broker	 Unable to render Jira issues macro, execution error.	Core
KIP-543: Expand ConfigCommand's non-ZK functionality	 Unable to render Jira issues macro, execution error.	Core
KIP-553: Disable all SSL protocols except TLSV1.2 by default.	 Unable to render Jira issues macro, execution error.	Core
KIP-555: Deprecate Direct Zookeeper access in Kafka Administrative Tools (partial in 2.5)	 Unable to render Jira issues macro, execution error.	Core
KIP-558: Track the set of actively used topics by connectors in Kafka Connect	 Unable to render Jira issues macro, execution error.	Connect

KIP-559: Make the Kafka Protocol Friendlier with L7 Proxies	 Unable to render Jira issues macro, execution error.	Core
KIP-562: Allow fetching a key from a single partition rather than iterating over all the stores on an instance	 Unable to render Jira issues macro, execution error.	Streams

Postponed KIPs

KIP	JIRA	Component
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
KIP-216: IQ should throw different exceptions for different errors	 Unable to render Jira issues macro, execution error.	Streams
KIP-280: Enhanced log compaction	 Unable to render Jira issues macro, execution error.	Core
KIP-399: Extend ProductionExceptionHandler to cover serialization exceptions	 Unable to render Jira issues macro, execution error.	Streams
KIP-401: TransformerSupplier/ProcessorSupplier StateStore connecting	 Unable to render Jira issues macro, execution error.	Streams
KIP-444: Augment metrics for Kafka Streams (some parts in 2.4, some TBD)	 Unable to render Jira issues macro, execution error.	Streams

KIP-467: Augment ProduceResponse error messaging for specific culprit records	 Unable to render Jira issues macro, execution error.	Core/Clients
KIP-514: Add a bounded flush() API to Kafka Producer	 Unable to render Jira issues macro, execution error.	Clients
KIP-544: Make metrics exposed via JMX configurable	 Unable to render Jira issues macro, execution error.	Core
KIP-551: Expose disk read and write metrics	 Unable to render Jira issues macro, execution error.	Core

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

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