

# 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	 <a href="#">KAFKA-6049</a> - Kafka Streams: Add Cogroup in the DSL <span>RESOLVED</span>	Streams
KIP-352: Distinguish URPs caused by reassignment	 <a href="#">KAFKA-8834</a> - Distinguish URPs caused by reassignment plus other metrics <span>RESOLVED</span>  <a href="#">KAFKA-9059</a> - Implement ReassignmentMaxLag <span>OPEN</span>  <a href="#">KAFKA-8835</a> - Update documentation for URP changes in KIP-352 <span>RESOLVED</span>	Core
KIP-360: Improve reliability of idempotent /transactional producer	 <a href="#">KAFKA-8710</a> - InitProducerId changes for KIP-360 <span>RESOLVED</span>	Core/Clients
KIP-396: Add Reset/List Offsets Operations to AdminClient	 <a href="#">KAFKA-7689</a> - Add Commit/List Offsets Operations to AdminClient <span>RESOLVED</span>	Clients
KIP-447: Producer scalability for exactly once semantics (partial)	 <a href="#">KAFKA-8587</a> - One producer per thread for Kafka Streams EOS <span>RESOLVED</span>	Streams
KIP-455: Create an Administrative API for Replica Reassignment	 <a href="#">KAFKA-8345</a> - Create an Administrative API for Replica Reassignment <span>RESOLVED</span>	Core
KIP-511: Collect and Expose Client's Name and Version in the Brokers (new metrics)	 <a href="#">KAFKA-8855</a> - Collect and Expose Client's Name and Version in the Brokers <span>RESOLVED</span>	Core/Clients
KIP-515: Enable ZK client to use the new TLS supported authentication	 <a href="#">KAFKA-8843</a> - Zookeeper migration tool support for TLS <span>RESOLVED</span>	Core
KIP-523: Add KStream#toTable to the Streams DSL	 <a href="#">KAFKA-7658</a> - Add KStream#toTable to the Streams DSL <span>RESOLVED</span>	Streams
KIP-524: Allow users to choose config source when describing configs	 <a href="#">KAFKA-9040</a> - Implement --all option for describing configs <span>RESOLVED</span>	Core
KIP-526: Reduce Producer Metadata Lookups for Large Number of Topics	 <a href="#">KAFKA-8904</a> - Reduce metadata lookups when producing to a large number of topics <span>RESOLVED</span>	Clients
KIP-527: Add VoidSerde to Serdes	 <a href="#">KAFKA-8455</a> - Add VoidSerde to Serdes <span>RESOLVED</span>	Streams
KIP-530: Consider renaming 'UsePreviousTimeOnInvalidTimeStamp' class to 'UsePartitionTimeOnInvalidTimeStamp'	 <a href="#">KAFKA-8953</a> - Consider renaming 'UsePreviousTimeOnInvalidTimestamp' timestamp extractor <span>RESOLVED</span>	Streams
KIP-531: Drop support for Scala 2.11 in Kafka 2.5	 <a href="#">KAFKA-9324</a> - Drop support for Scala 2.11 (KIP-531) <span>RESOLVED</span>	Core

KIP-535: Allow state stores to serve stale reads during rebalance	 <a href="#">KAFKA-6144</a> - Allow serving interactive queries from in-sync Standbys <span>RESOLVED</span>	Streams
KIP-537: Increase default zookeeper session timeout	 <a href="#">KAFKA-9102</a> - Increase default zk session timeout and max lag <span>RESOLVED</span>	Core
KIP-538: Add a metric tracking the number of open connections with a given SSL cipher type	 <a href="#">KAFKA-9091</a> - KIP-538: Add a metric tracking the number of open connections with a given SSL cipher type <span>RESOLVED</span>	Core
KIP-541: Create a fetch.max.bytes configuration for the broker	 <a href="#">KAFKA-9101</a> - Create a fetch.max.bytes configuration for the broker <span>RESOLVED</span>	Core
KIP-543: Expand ConfigCommand's non-ZK functionality	 <a href="#">KAFKA-9082</a> - Move ConfigCommand to use KafkaAdminClient APIs <span>RESOLVED</span>	Core
KIP-553: Disable all SSL protocols except TLSV1.2 by default.	 <a href="#">KAFKA-9460</a> - Enable TLSv1.2 by default and disable all others protocol versions <span>RESOLVED</span>	Core
KIP-555: Deprecate Direct Zookeeper access in Kafka Administrative Tools (partial in 2.5)	 <a href="#">KAFKA-9397</a> - Deprecate Direct Zookeeper access in Kafka Administrative Tools <span>RESOLVED</span>	Core
KIP-558: Track the set of actively used topics by connectors in Kafka Connect	 <a href="#">KAFKA-9422</a> - Track the set of topics a connector is using <span>RESOLVED</span>	Connect
KIP-559: Make the Kafka Protocol Friendlier with L7 Proxies	 <a href="#">KAFKA-9437</a> - KIP-559: Make the Kafka Protocol Friendlier with L7 Proxies <span>RESOLVED</span>	Core
KIP-562: Allow fetching a key from a single partition rather than iterating over all the stores on an instance	 <a href="#">KAFKA-9445</a> - Allow fetching a key from a single partition rather than iterating over all the stores on an instance <span>RESOLVED</span>	Streams

## Postponed KIPs

KIP	JIRA	Component
KIP-158: Kafka Connect should allow source connectors to set topic-specific settings for new topics	 <a href="#">KAFKA-5295</a> - Allow Kafka Connect source connectors to specify topic-specific settings for new topics <span>RESOLVED</span>	Connect
KIP-216: IQ should throw different exceptions for different errors	 <a href="#">KAFKA-5876</a> - IQ should throw different exceptions for different errors <span>IN PROGRESS</span>	Streams
KIP-280: Enhanced log compaction	 <a href="#">KAFKA-7061</a> - Enhanced log compaction <span>IN PROGRESS</span>	Core
KIP-399: Extend ProductionExceptionHandler to cover serialization exceptions	 <a href="#">KAFKA-7499</a> - Extend ProductionExceptionHandler to cover serialization exceptions <span>RESOLVED</span>	Streams
KIP-401: TransformerSupplier/ProcessorSupplier StateStore connecting	 <a href="#">KAFKA-7523</a> - TransformerSupplier/ProcessorSupplier enhancements <span>RESOLVED</span>	Streams
KIP-444: Augment metrics for Kafka Streams (some parts in 2.4, some TBD)	 <a href="#">KAFKA-6819</a> - Refactor build-in StreamsMetrics internal implementations <span>RESOLVED</span>	Streams
KIP-467: Augment ProduceResponse error messaging for specific culprit records	 <a href="#">KAFKA-8729</a> - Augment ProduceResponse error messaging for specific culprit records <span>IN PROGRESS</span>	Core/Clients
KIP-514: Add a bounded flush() API to Kafka Producer	 <a href="#">KAFKA-7711</a> - Add a bounded flush() API to Kafka Producer <span>OPEN</span>	Clients
KIP-544: Make metrics exposed via JMX configurable	 <a href="#">KAFKA-9106</a> - metrics exposed via JMX should be configurable <span>RESOLVED</span>	Core

KIP-551: Expose disk read and write metrics	<div>  <a href="#">KAFKA-9292</a> - KIP-551: Expose disk read and write metrics         </div> <div>RESOLVED</div>	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	P	Summary	T	Assignee	Status	Created	Updated	Reporter	Resolution
<a href="#">KAFKA-13581</a>		<a href="#">Error getting old protocol</a>		Unassigned	OPEN	Jan 09, 2022	Jan 18, 2022	chenzhongyu	Unresolved

1 issue