

Release Plan 2.1.0 (Nov 2018)

Release Dates

- KIP Freeze: Sep 24, 2018 (a KIP must be accepted by this date in order to be considered for this release)
- Feature Freeze: Oct 1, 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: Oct 15, 2018
- Release: Nov 20, 2018

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 [Dong Lin](#).

Release Features

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

- Java 11 support
- Support for Zstandard, which achieves compression comparable to gzip with higher compression and especially decompression speeds (KIP-110)
- Avoid expiring committed offsets for active consumer group (KIP-211)
- Provide Intuitive User Timeouts in The Producer (KIP-91)
- Kafka's replication protocol now supports improved fencing of zombies. Previously, under certain rare conditions, if a broker became partitioned from Zookeeper but not the rest of the cluster, then the logs of replicated partitions could diverge and cause data loss in the worst case (KIP-320).
- Streams API improvements (KIP-319, KIP-321, KIP-330, KIP-353, KIP-356)
- Admin script and admin client API improvements to simplify admin operation (KIP-231, KIP-308, KIP-322, KIP-324, KIP-338, KIP-340)
- DNS handling improvements (KIP-235, KIP-302)

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 (reviewer)	Comment
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KIP-91: Provide Intuitive User Timeouts in The Producer	 Unable to render Jira issues macro, execution error.	Clients	Jason Gustafson	
KIP-110: Add Codec for ZStandard Compression	 Unable to render Jira issues macro, execution error.	Broker, Clients	Jason Gustafson	
KIP-206: Add support for UUID serialization and deserialization	 Unable to render Jira issues macro, execution error.	Clients	Ewen Cheslack-Postava	
KIP-211: Revise Expiration Semantics of Consumer Group Offsets	 Unable to render Jira issues macro, execution error.	Broker, Clients	Jason Gustafson	
KIP-231: Improve the Required ACL of ListGroups API	 Unable to render Jira issues macro, execution error.	Security	Jason Gustafson	
KIP-235: Add DNS alias support for secured connection	 Unable to render Jira issues macro, execution error.	Clients	Rajini Sivaram	
KIP-302 - Enable Kafka clients to use all DNS resolved IP addresses	 Unable to render Jira issues macro, execution error.	Clients	Rajini Sivaram	
KIP-306: Configuration for Delaying Response to Failed Client Authentication	 Unable to render Jira issues macro, execution error.	Client	Rajini Sivaram	
KIP-308: Support dynamic update of max.connections.per.ip/max.connections.per.ip.overrides configs	 Unable to render Jira issues macro, execution error.	Broker	Jason Gustafson	

KIP-312: Add Overloaded StreamsBuilder Build Method to Accept java.util.Properties	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	
KIP-319: Replace segments with segmentInterval in WindowBytesStoreSupplier	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	
KIP-321: Update TopologyDescription to better represent Source and Sink Nodes	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	
KIP-322: Return new error code for DeleteTopics API when topic deletion disabled	 Unable to render Jira issues macro, execution error.	Tools	Jason Gustafson	
KIP-324: Add method to get metrics() in AdminClient	 Unable to render Jira issues macro, execution error.	AdminClient	guozhang Wang	
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-330: Add retentionPeriod in SessionBytesStoreSupplier	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	
KIP-332: Update AclCommand to use AdminClient API	 Unable to render Jira issues macro, execution error.	Tools	Jun Rao	
KIP-336: Consolidate ExtendedSerializer /Serializer and ExtendedDeserializer /Deserializer	 Unable to render Jira issues macro, execution error.	Clients	Jason Gustafson	

KIP-338 Support to exclude the internal topics in kafka-topics.sh command	 Unable to render Jira issues macro, execution error.	Tools	Jason Gustafson	
KIP-340: Allow kafka-reassign-partitions.sh and kafka-log-dirs.sh to take admin client property file	 Unable to render Jira issues macro, execution error.	Tools	Dong Lin	
KIP-342: Add support for Custom SASL extensions in OAuthBearer authentication	 Unable to render Jira issues macro, execution error.	Security	Rajini Sivaram	
KIP-353: Improve Kafka Streams Timestamp Synchronization	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	
KIP-356: Add withCachingDisabled() to StoreBuilder	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	
KIP-357: Add support to list ACLs per principal	 Unable to render Jira issues macro, execution error.	Tools	Dong Lin	
KIP-358: Migrate Streams API to Duration instead of long ms times	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	
	 Unable to render Jira issues macro, execution error.			
KIP-365: Materialized, Serialized, Joined, Consumed and Produced with implicit Serde	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	

KIP-366: Make FunctionConversions deprecated	 Unable to render Jira issues macro, execution error.	Streams	guozhang Wang	
KIP-372: Naming Repartition Topics for Joins and Grouping	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	

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.	Streams		partially implemented in v1.1
KIP-150 - Kafka-Streams Cogroup	 Unable to render Jira issues macro, execution error.	Streams		
KIP-289: Improve the default group id behavior in KafkaConsumer	 Unable to render Jira issues macro, execution error.	Clients		
KIP-313: Add KStream.flatTransform and KStream.flatTransformValues	 Unable to render Jira issues macro, execution error.	Streams	Matthias Sax	
KIP-320: Allow fetchers to detect and handle log truncation	 Unable to render Jira issues macro, execution error.	Broker,Clients	Dong Lin	

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		
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-359: Verify leader epoch in produce requests	 Unable to render Jira issues macro, execution error.	Broker,Clients		
KIP-361: Add Consumer Configuration to Disable Auto Topic Creation	 Unable to render Jira issues macro, execution error.	Clients		
KIP-367 Introduce close(Duration) to Producer and AdminClient instead of close(long, TimeUnit)	 Unable to render Jira issues macro, execution error.	Clients, AdminClient		
KIP-368: Allow SASL Connections to Periodically Re-Authenticate	 Unable to render Jira issues macro, execution error.	Broker,Clients	Rajini Sivaram	