

Available Metrics

Here's a more-or-less exhaustive list of metrics Kafka reports in 0.8.2.0.

I may have misattributed some of the parent classes (I generated the list from code and there are some class hierarchy things involved), so feel free to fix the misnames.

Gauge

- `ProducerRequestPurgatory.NumDelayedRequests`
- `ProducerRequestPurgatory.PurgatorySize`
- `FetchRequestPurgatory.NumDelayedRequests`
- `FetchRequestPurgatory.PurgatorySize`
- `ReplicaManager.PartitionCount`
- `ReplicaManager.UnderReplicatedPartitions`
- `ReplicaManager.LeaderCount`
- `KafkaController.PreferredReplicaImbalanceCount`
- `KafkaController.ActiveControllerCount`
- `KafkaController.OfflinePartitionsCount`
- `Log.LogEndOffset`
- `Log.LogStartOffset`
- `Log.size`
- `Log.NumLogSegments`
- `AppInfo.Version`
- `Consumer.OwnedPartitionsCount`
- `Producer.ProducerQueueSize`
- `Log.max-buffer-utilization-percent`
- `Log.cleaner-recopy-percent`
- `Log.max-clean-time-secs`
- `Log.max-dirty-percen`
- `Network.RequestQueueSize`
- `Network.ResponseQueueSize`
- `Network.ResponsesBeingSent`
- `KafkaServer.MaxLag`
- `KafkaServer.ConsumerLag`
- `KafkaServer.MinFetchRate`
- `KafkaServer.BrokerState`
- `OffsetManager.NumOffsets`
- `OffsetManager.NumGroups`
- `MirrorMaker.NumUnackedMessages`
- `MirrorMaker.UnackedOffsetListsSize`
- `MirrorMaker.NumSkippedOffsets`

Histograms

(The Network ones are collected by API request type)

- `Consumer.FetchResponseSize`
- `Producer.ProducerRequestSize`
- `Network.RequestQueueTimeMs`
- `Network.LocalTimeMs`
- `Network.RemoteTimeMs`
- `Network.ResponseQueueTimeMs`
- `Network.ResponseSendTimeMs`
- `Network.TotalTimeMs`
- `MirrorMaker.MirrorMaker-DataChannel-queue-%d-NumMessages`
- `MirrorMaker-DataChannel-queue-%d-NumMessages`
- `MirrorMaker-DataChannel-Record-Siz`

Metered

- `Consumer.MessagesPerSec`
- `Consumer.BytesPerSec`
- `Consumer.KafkaCommitsPerSec`
- `Consumer.ZookeeperCommitsPerSec`
- `Producer.SerializationErrorsPerSec`
- `Producer.ResendsPerSec`
- `Producer.FailedSendsPerSec`
- `Producer.MessagesPerSec`
- `Producer.BytesPerSec`
- `Producer.DroppedMessagesPerSec`
- `KafkaController.UncleanLeaderElectionsPerSec`
- `Network.RequestsPerSec`
- `Network.NetworkProcessorAvgIdlePercent`
- `Network.IdlePercent (per processing)`

- KafkaServer.RequestsPerSec
- KafkaServer.BytesPerSec
- KafkaServer.ExpiresPerSecond (for follower or consumer)
- KafkaServer.RequestHandlerAvgIdlePercent
- KafkaServer.MessagesInPerSec
- KafkaServer.BytesInPerSec
- KafkaServer.BytesOutPerSec
- KafkaServer.BytesRejectedPerSec
- KafkaServer.FailedProducerRequestsPerSec
- KafkaServer.FailedFetchRequestsPerSec
- ProduceRequestPurgatory.ExpiresPerSecond
- ReplicaManager.IsrExpandsPerSec
- ReplicaManager.IsrShrinksPerSec
- MirrorMaker.MirrorMaker-DataChannel-WaitOnPut
- MirrorMaker.MirrorMaker-DataChannel-WaitOnTake

Timer

- Consumer.FetchRequestRateAndTimeMs
- Consumer.RebalanceRateAndTime
- KafkaController.LeaderElectionRateAndTimeMs
- Log.LogFlushRateAndTimeMs
- Producer.ProducerRequestRateAndTimeMs