## KAFKA PROTOCOL GUIDE

This document covers the wire protocol imp mented in Kafia. It is meant to give a readable guide to the protocol that covers the available requests, their binary format, and the proper way to make use of them to implement a client. This document assumes you understand the basic design and terminology described here.

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The Messages
Some Common Philosophical Duestions

## Preliminaries

The client initiates a socket connection and then writes a sequence of request messages and reads back the corresponding response message. No handshake is required on connection or disconnection. TCP is happier if you maintain persistent used for many requests to amortize the cost of the TCP handshake, but beyond this penalty co

nnection to multiple brokers, as data is partitioned and the clients will need to talk to the server that has their data. However it should not generally be necessary to maintain multiple co

The server guarantees that on a single TCP connection, requests will be processed in the order they are sent and responses will when in that order as well. The blooker's request processing allows only a single in flight request per connection in order to guarantee this ordering. Note that clients can (and ideally the processing requests since the outstanding requests will be buffered in the underlying OS socket buffer. All requests are initiated by the client, and result in a corresponding response message from the server except where noted.

The server has a configurable maximum limit on request size and any request that exceeds this limit will result in the socket being disconnected

All systems of this nature how the question of how a particular piece of data is assigned to a particular partition. Kalka clients directly control this assignment, the brokers themselves enforce no particular semantics of which messages should be published to a particular partition. Father, to publish m same partitioning scheme they must use the same method to compute the mapping of key to partition.

These requests to publish or fetch data must be sent to the broker that is currently acting as the leader for a given partition. This condition is enforced by the broker, so a request for a particular partition to the wrong broker will result in an the NotLeaderForPartition error code (described below)

New can the direct finds or which this space are, what permission they have used which bridgers coveredly have a design to be a permission of the space and used to be a special to the space and used to the space and used covering file. Instead all fails between on answer a metal-data request that describes the current state of the cluster what topics there are, which pure permission, and the house between trainings for the residence shares.

The Client does not need to leapy policy to use if the cluster has changed; it can fetral metadatias secre when it is instantiated such that metadatias until it receives an error indicating that the metadatia is out of date. This error can come in two forms: (1) a socket error indicating the client cannot communicate with a particular brake; (2) are error code in the response to a nequest indicating that this braker no longer hosts the partition for which date

- Cycle through a list of "bootstrap" Kaffas URLs until we find one we can connect to. Fetch cluster metadata.
   Process fetch or produce requests, descriting them to the appropriate broker based on the topic/partitions they send to or fetch from all five age can appropriate error, effects the metadata and try again.

Partitioning really serves two purposes in Kafka:

For a given use case you may care about only one of these or both.

To accomplish simple load balancing a simple approach would be for the client to just round robin requests over all brokers. Another alternative, in an envir

ng means using some key in the message to pastign messages to partitions. For example if you were processing a click message stream you might want to partition the stream by the user id so that all data for a particular user would go to a single consumer. To accomplish this the client can take a key asso

# Batching

Our APIs encourage batching small things together for efficiency. We have found this is a very significant performance win. Both our API to send messages and our API to fetch messages alway allow the batching across multiple topics and partitions, so a produce request may contain data to append to many partitions and a fetch request may pull data from many partitions all at once.

Since the Kafka protocol has changed over time, clients and servers need to agree on the schema of the message that they are sending over the wire. This is done through API versioning.

Before each request is sent, the client sends the API key and the API version. These two 16-bit numbers, when taken together, uniquely identify the schema of the message to follow tion is that clients will support a range of API versions. When cor

The server will reject requests with a version it does not support, and will always respond to the client with exactly the protocol format it expects based on the version it included in its request. The intended upgrade puth is that new features would first be roiled out on the server (with the older clients not making use of them) and then as newer clients are deployed these new features would gradually be taken advantage of

Note that <u>KSP-862 tagged fields</u> can be added to a request without incrementing the version number. This offers an a shallenge if this is not the behavior that the sender wants. In such cases, a version bump may be more appropriate.

The following sequence may be used by a client to obtain supported API versions from a broker.

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The following sequence is used for SASL authentication

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## The Protocol

### Protocol Primitive Types The protocol is built out of the following primitive types

TYPE	DESCRIPTION
BOOLEAN	Represents a boolean value in a byte. Values 0 and 1 are used to represent false and true respectively. When reading a boolean value, any non-zero value is considered true.
INTS	Represents an integer between -2 <sup>7</sup> and 2 <sup>7</sup> -1 inclusive.
INT16	Represents an integer between 2 <sup>15</sup> and 2 <sup>15</sup> . It inclusive. The values are encoded using two bytes in network byte order (big endian).
INT32	Represents an integer between 2 <sup>31</sup> and 2 <sup>31</sup> -1 linclusive. The values are encoded using four bytes in network byte order (big endian).
NT64	Represents an integer between -2 <sup>63</sup> and 2 <sup>63</sup> -1 inclusive. The values are encoded using eight bytes in network byte order (big endian).
UNT32	Represents an integer between 0 and 2 <sup>32</sup> -1 inclusive. The values are encoded using four bytes in network byte order (big endlan).
VARINT	Represents an integer between (2 <sup>31</sup> and 2 <sup>31</sup> .1 inclusive. Encoding follows the variable-length zig-zag encoding from <u>Glocola Protocol Buffers</u> .
VARLONG	Represents an integer between 2 <sup>63</sup> and 2 <sup>63</sup> .1 inclusive. Encoding follows the variable-length zig-zag encoding from <u>Google Protocol Buffers</u> .
UUD	Represents a type 4 immutable universally unique identifier (Uuid). The values are encoded using sixteen bytes in network byte order (big-endian).
FLOAT64	Represents a double precision 64-bit format IEEE 754 value. The values are encoded using eight bytes in network byte order (big endian).
STRING	Represents a sequence of characters. First the length N is given as an INT16. Then N bytes follow which are the UTF-8 encoding of the character sequence. Length must not be negative.
COMPACT_STRING	Represents a sequence of characters. First the length N + 1 is given as an UNSIGNED_VARINT. Then N bytes follow which are the UTF-8 encoding of the character sequence.
NULLABLE_STRING	Represents a sequence of characters or null. For non-null strings, first the length N is given as an INT16. Then N bytes follow which are the UTF-8 encoding of the character sequence. A null value is encoded with length of -1 and there are no following bytes.
COMPACT_NULLABLE_STRING	Represents a sequence of characters. First the length N + 1 is given as an UNSIGNED_VARINT. Then N bytes follow which are the UTF-8 encoding of the character sequence. A null string is represented with a length of 0.
BYTES	Represents a raw sequence of bytes. First the length N is given as an INT32. Then N bytes follow.
COMPACT_BYTES	Represents a raw sequence of bytes. First the length N+1 is given as an UNSIGNED_VARINT.Then N bytes follow.
NULLABLE_BYTES	Represents a raw sequence of bytes or mult. For non-mult values, first the length N is given as an INT32. Then N bytes follow. A null value is encoded with length of -1 and there are no following bytes.
COMPACT_NULLABLE_SYTES	Represents a raw sequence of bytes. First the length N+1 is given as an UNSIGNED_VARINT.Then N bytes follow. A null object is represented with a length of 0.
RECORDS	Represents a sequence of Kafika records as NULLABLE_EYTES. For a detailed description of records see Message Sets.
ARRAY	Represents a sequence of objects of a given type T. Type T can be either a primitive type (e.g. STRING) or a structure. First, the length N is given as an INT32. Then N instances of type T follow. A rull array is represented with a length of -1. In protocol documentation an array of T instances is referred to as [1].
COMPACT_ARRAY	Represents a sequence of objects of a given type T. Type T can be either a primitive type (e.g., STRING) or a structure. First, the length N + 1 is given as an UNSIGNED, VARINT. Then N instances of type T follow. A null array is sepresented with a length of 0. In protocol documentation an array of T instances is referred to as [1]

## on Request and Response Structure

All requests and responses originate from the following grammar which will be incrementally describe through the rest of this document

FELD	DESCRIPTION
message_size	The message_size field gives the size of the subsequent request or response message in bytes. The client can read requests by first reading this 4 byte size as an integer N, and then reading and parsing the subsequent N bytes of the

### Record Ratch

A description of the second hatch format can be found here

### Constants

### Error Codes

Image: Control of the Control of Technology of the Control of Technology of Technolo	We use numeric codes to indicate what problem occurred on the server. These can be translated by the client into ex-	ceptions or whatever the appropriate error handling mechanism in the client language. Here is a table of the error codes	currently in use:	
Image: Control of the control of t	ERROR	CODE	RETRIABLE	DESCRIPTION
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may be a company of the company of				The requested offset is not within the range of offsets maintained by the owner
MarchandImage: Company of the company of				
MOMERNAMEINTERPREDICT OF TABLE STATE STAT	CORRUPT_MESSAGE	2	True	
MOMERNAMEINTERPREDICT OF TABLE STATE STAT	UNKNOWN_TOPIC_OR_PARTITION	3	True	
MASTACEMImage: Company of the Company of	INVALID_FETCH_SIZE	4	False	The requested fetch size is invalid.
MASTACEMImage: Company of the Company of	LEADER_NOT_AVAILABLE	5	True	There is no leader for this topic-partition as we are in the middle of a leadership election.
Mayor 			T	For requests intended only for the leader, this error indicates that the broker is not the current leader. For requests
ModernameImage: Control of the control of	NOT_LEADER_OR_FOLLOWER	6	True	intended for any replica, this error indicates that the broker is not a replica of the topic partition.
Machinery         Part of the par	REQUEST_TIMED_OUT	7	True	The request timed out.
Modern March Same	BROKER_NOT_AVAILABLE	8	False	The broker is not available.
MonthMonthMonthMonthMonthMachinary Collegation 				
ManagementMarchand Common	REPLICA_NOT_AVAILABLE	9	True	
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MOMERNAMEqImage: Company to the	INVALID_REQUEST	42	False	incompatible broker. See the broker logs for more details.
MOMERANDERSORM	UNSUPPORTED_FOR_MESSAGE_FORMAT	43	False	
MORNINGRIMMENDAME8 (1)MASTERMINATION (MARCHERMENDAME MARCHERMENDAME MARCHERME	POLICY_VIOLATION	44	False	Request parameters do not satisfy the configured policy.
MASSIGNEME9Media (al)Media	OUT_OF_ORDER_SEQUENCE_NUMBER	45	False	The broker received an out of order sequence number.
MASSIGNEME9Media (al)Media	DUPLICATE_SEQUENCE_NUMBER	46	False	The broker received a duplicate sequence number.
MASCHEROMONE\$Medical management and management		47	False	
정말 전		48		
Modern	INVALID_PRODUCER_ID_MAPPING	49	False	The producer attempted to use a producer id which is not currently assigned to its transactional id.
Homerstanders and section of the sec				The transaction timeout is larger than the maximum value allowed by the broker (as configured by
Seminor Semino	INVALID_TRANSACTION_TIMEOUT	50	False	transaction.max.timeout.ms).
MINISTRACEMBERS AND MEMBERS AN	CONCURRENT TRANSACTIONS	51	True	
SWORDSMANDAMORDSMAND				
MOMERANDERSONAMED0Moment of Moment of Mome	TRANSACTION_COORDINATOR_FENCED	52	False	Indicates that the transaction coordinator sending a WriteTxnMarker is no longer the current coordinator for a
SMORDINGING45Management of the state	TRANSACTIONAL ID AUTHORIZATION FAILED	63	Entre	
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IXA.DRIVED15Accordance with a control of the co	OPERATION_NOT_ATTEMPTED	55	False	
Management	KAFKA_STORAGE_ERROR	56	True	Disk error when trying to access log file on the disk.
Nonemin waster you with a feat and waster and any source and a present of any source and any sou	LOG_DIR_NOT_FOUND	57	False	The user-specified log directory is not found in the broker config.
SMORTHUMBERS         Procession of the procession of the process was send and send morthumber	SASL_AUTHENTICATION_FAILED	58	False	SASL Authentication failed.
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### Parameter				
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PURPLE   STATE   STA	NON_EMPTY_GROUP	68	False	The group is not empty.
NAMES, PROCESSIONALISES TO A THE MASS ASSESSMENT OF THE MASS ASSESSM		69	False	The group id does not exist.
Part	FETCH_SESSION_ID_NOT_FOUND	70	True	The fetch session ID was not found.
PACE DELICION, DEMAND   Take	INVALID_FETCH_SESSION_EPOCH	71	True	The fetch session epoch is invalid.
PACE DELICION, DEMAND   Take	LISTENER_NOT_FOUND	72	True	There is no listener on the leader broker that matches the listener on which metadata request was processed.
DISCRIPTION OF THE DESCRIPTION O				
DESPONDED COMPRESSOR LYPFE 75 THAL SMOKE LYPCH	FENCED_LEADER_EPOCH	74	True	The leader epoch in the request is older than the epoch on the broker.
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ADDITIONAL   ADD	MEMBER_ID_REQUIRED	79	False	The group member needs to have a valid member id before actually entering a consumer group.
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Track   Para	GROUP_MAX_SIZE_REACHED	81	False	The consumer group has reached its max size.
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RECTION_DOT_MEEDED         54         Thus         Lander election not needed for topic partition.           NO_EASSIGNMENT_N_PROCEESS         55         False         Supportion massignment in progress.           NOW_EASSIGNMENT_N_PROCEESS         56         False         Despetition massignment in progress.           NOW_EASSIGNMENT_N_PROCEESS         74         Despetition massignment in progress.         Despetition massignment in progress.           PROCEESS_COUNTY_N_PROCEESS         74         Despetition massignment in progress.         D				
NO_REASSIONENT_IN_PRODRESS         False         Despite on easing metric is in progress.           GRUE_PREASSINENT_IN_PRODRESS         66         False         Desting offerent of a tage is included on white the consumer group is actively subscribed to M.           ORD_REASSINENT_IN_PRODRESS         75         False         The consumer can be the wealther of the false the velocities on the fine of the required.           ORSTARES_OFFRET_COMMIT         88         The consumer can be commented by the required.         The consumer can be consumer can be consumer group is active in required.           THROTTINEA_CONTA_EXCERSION         90         The consumer can be consume				
GOUR_SIRECTIONED  OR False  Obering offerent of a topic is cheatedon while the consumer group is actively subscribed to it.  NALLE, RECORD  False  The CONTRIBLE, CON				
NVALD_RECORD         F3         False         The encor has failed the validation on broker and hence will be rejected.           UNSTABLE_CPREET_COMENT         88         Too         The was on unstable offeres in travel by be beaused.           PRODUCES_CPRECTOR         90         Too         The common travel of the bear necessary of the bear ne				
MORTHANE, OPTERT COMMET         The ID         The OPTERT COMMET         The OPTERT COMMET         The Proteining state has been secreded.           THROTTLAND, QUOTA, SECRETION         50         Table         The state of the comment of				
THOTTLING_QUOTA_DECERPED  90 Take  FASCE F				
PRODUCES FINANCES  7 Palse  There is a reveer producer with the same transactional which ferces the current one.  RESOURCE (JOST FORM)  7 False  A request Regolary referred to a securic tend one one exect.  A request Regolary referred to a securic tend one one execut.  OUNCESTPAIL (SIEDENTIA.  10 False  Regolar condential would not meet charter for acceptability.				
RESOURCE_MOT_FOUND 91 False A request liquighty referred to a resource that does not exist.  DUPLICATE_RESOURCE 92 False A request liquid you may not to the same resource twice.  UNACCEPTABLE_CRESCEVITUAL 92 False Sequential could not meet other for acceptability.				
DUPLICATE_PESQUECE         92         False         A request Slegally referred to the same resource holics.           DMACCEPTABLE_CRESENTIAL         93         False         Sequested condential would not meet other for acceptability.				
UMACEFFABLE_CRESCNTUL 93 False Requested credential would not meet other for acceptability.				
NCCMSSTENT_VOTER_SET 94 Indicates that the either the sender or recipient of a voter only request is not one of the expected voters				
	INCONSISTENT_VOTER_SET	94	False	Indicates that the either the sender or recipient of a voter-only request is not one of the expected voters

INVALID_UPDATE_VERSION	95	False	The given update version was invalid.
FEATURE_UPDATE_FAILED	96	False	Unable to update finalized features due to an unexpected server error.
PRINCIPAL_DESERIALIZATION_FAILURE	97	False	Request principal descrialization failed during forwarding. This indicates an internal error on the broker cluster security setup.
SNAPSHOT_NOT_FOUND	98	False	Requested snapshot was not found
POSITION_OUT_OF_RANGE	99	False	Requested position is not greater than or equal to zero, and less than the size of the snapshot.
UNKNOWN_TOPIC_ID	100	True	This server does not host this topic ID.
DUPLICATE_BROKER_REGISTRATION	101	False	This broker ID is already in use.
BROKER_ID_NOT_REGISTERED	102	False	The given broker ID was not registered.
INCONSISTENT_TOPIC_ID	103	True	The log's topic ID did not match the topic ID in the request
INCONSISTENT_CLUSTER_ID	104	False	The clusterid in the request does not match that found on the server
TRANSACTIONAL_ID_NOT_FOUND	105	False	The transactionalid could not be found
FETCH_SESSION_TOPIC_ID_ERROR	106	True	The fetch session encountered inconsistent topic ID usage
INELIGIBLE_REPLICA	107	False	The new ISR contains at least one ineligible replica.
NEW_LEADER_ELECTED	108	False	The AlterPartition request successfully updated the partition state but the leader has changed.
OFFSET_MOVED_TO_TIERED_STORAGE	109	False	The requested offset is moved to tiered storage.
FENCED_MEMBER_EPOCH	110	False	The member epoch is fenced by the group coordinator. The member must abandon all its partitions and rejoin.
UNRELEASED_INSTANCE_ID	111	False	The instance ID is still used by another member in the consumer group. That member must leave first.
UNSUPPORTED_ASSIGNOR	112	False	The assignor or its version range is not supported by the consumer group.
STALE_MEMBER_EPOCH	113	False	The member epoch is stale. The member must retry after receiving its updated member epoch via the ConsumerGroupHeartbeat API.

### Api Keya

The following are the numeric codes that the Aptitivity in the request can take for each of the below request types.		
NAME	KEY	
	0	
	1	
	2	
	3	
LeaderAndl st	4	
	5	
UpdateMetadata	6	
Controlled Shutdown	7	
OffsetCorresit	8	
	9	
	10	
AsinGroup	n e e e e e e e e e e e e e e e e e e e	
Heartbeat	12	
Lagrations	13	
Sync-Group	14	
Dascribs-Groups	15	
Listificours	16	
SadiHandahake	17	
Antiversions	18	
Creatifopics	19	
	20	
	21	
Interestable	22	
	23	
	24	
	25	
EndTon	26	
	27	
	28	
	29	
CreateAcia	30	
	31	
<u>DasoribaConfiga</u>	92	
	33	
Attentional confirm	34	
Dascribal.co/Disc	35	
SasiAutheritisate	36	
CreatePartitions	37	
CreateDelegation Token	38	
Banew Pales 436 on Tokan	39	
ExpriseDeteoprison Token	40	
Describe Delico pation Token	41	
DelateGroups	42	
Earth anders	43	
Incremental Atten Configs	44	
Abstraction Description	45	
ListPartitionReasignments	46	
Office/Delate	45	
OffsetDates Describe(DientOpotas	47	
	49	
AlterClientOuctag		
Dascribe UserSiram Credentials	50	
	51	
<u>DescribeQuorum</u>	55	
AlteriZantision	56	
UndateFeatures	57	
Employs	58	
Describe Clisater	60	
<u>Describe Producers</u>	61	
UnresisterBroker	64	
DescribeTransactions	65	
ListTansactions	66	
AllocateProduceritis	67	
ConsumerCross-beartheat	68	

## The Messages

This section gives details on each of the individual API Messages, their usage, their binary format, and the meaning of their fields

## Headers:

Request Meader v0  $\rightarrow$  request api\_ver request api\_version correlation\_id request\_spi\_version  $\rightarrow$  NVT16 request\_spi\_version  $\rightarrow$  NVT16 correlation\_id  $\rightarrow$  NVT12

FIELD	DESCRIPTION
request_api_key	The API key of this request
request_api_version	The API version of this request.
correlation_id	The correlation ID of this request.

Request Header vi  $\rightarrow$  request\_mpl\_Ney request\_mpl\_version correlation\_id client\_id request\_mpl\_Ney  $\rightarrow$  INTIG request\_mpl\_version  $\rightarrow$  INTIG correlation\_id  $\rightarrow$  INTIG correlation\_id  $\rightarrow$  INTIG correlation\_id  $\rightarrow$  INTIG

FELD	DESCRIPTION
request_spiLkey	The API key of this request.
request_spt_version	The API version of this request.
correlation, id	The correlation ID of this request.
dient.jd	The client ID string.

Request Nauder v2 ~ request\_api\_key request\_api\_version correlation\_id client\_id TAG\_ROFFER request\_api\_key ~ INTIG request\_api\_version ~ INTIG correlation\_id ~ INTIG client\_id ~ RELEGIES\_TITME

FELD	DESCRIPTION
request_apt_key	The API key of this request.

| Price | Set | Se

### Produce API (Key: 0

### Requests:

Produce Request (Version: 0) → acks timeout\_ms [topic\_data]
acks → INTI6
timeout\_ms → INTI2
topic\_data → cames [partition\_data]
cames → STRII6
partition\_data → index records
index → INTI2
records → RECORDS

FIELD	DESCRIPTION	
ads	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISR.	
timeout, ms	The timeout to await a response in milliseconds.	
topic_data	Each topic to produce to.	
name	The topic name.	
partition_data	Each partition to produce to.	
Index	The partition index.	
records	The record data to be produced.	

Produce Request (Verion: 1) as acks timeout\_ms [topic\_data]
scis = NHTI6
timeout\_ms = NHTI2
topic\_data > name [partition\_data]
name = STRNLP
partition\_data >> index records
index = NECOMOS

FIELD	DESCRIPTION	
ads	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISP.	
timeout, ms	The timeout to await a response in miliseconds.	
topic_data	Each topic to produce to.	
name	The topic name.	
partition_data	Each partition to produce to.	
Index	The partition index.	
records	The record data to be produced.	

Produce Request (Version: 2) → acks timeout\_ms [topic\_data]
acks → NT16
timeout\_ms → NT12
topic\_data → name [partition\_data]
name → STRMU
partition\_data → index records
index → UNIZ
records → NECOMOS

FELD	DESCRIPTION
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISP.
timeout_ms	The timeout to await a response in miliseconds.
topic_data	Each topic to produce to.
name	The topic name.
partition, data	Each partition to produce to.
Index	The partition index.
Tecords	The record data to be produced.

Produce Request (Version: 3) -> transactional\_id acks timeout\_ms [topic\_data]
transactional\_id -> NRLIGHE\_STRING
acks -> DITE2
timeout\_ms -> DITE2
timeout\_ms -> DITE2
name -> STRING
name -> STRING
partition\_acks -> data records
transaction\_acks -> topic\_data -> topic\_

FIELD	DESCRIPTION	
transactional_id	The transactional ID, or null if the producer is not transactional.	
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISR.	
timeout, ms	The timeout to await a response in milliseconds.	
topic_data	Each topic to produce to.	
name	The topic name.	
partition, data	Each partition to produce to.	
Index	The partition index.	
records	The record data to be produced.	

Produce Respect (Vertion: 4) -> transactional id acks timeout\_ms [topic\_data] transactional id -> NRLUBRE\_STRING 
acks -> DITES 
timeout\_ms -> DITES 
timeou

FELD	DESCRIPTION
transactional_id	The transactional ID, or null if the producer is not transactional.
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISR.
timeout, ms	The timeout to await a response in milliseconds.
topic_data	Each topic to produce to.
name	The topic name.
partition, data	Each partition to produce to.
index	The partition index.
records	The record data to be produced.

Produce Respect (Version: 5) -> transactional\_id acks timesof\_ms [topic\_data]
transactional\_id -> BULLABLE\_STRING
scis -> DIVIS
timesor\_ms -> DIVIS
timesor\_ms -> DIVIS
topic\_data -> mass [partition\_data]
name -> STRING
partition\_data -> index records
scis -> STRING
records -> BECOMDS

FIELD	DESCRIPTION
transactional_id	The transactional ID, or null if the producer is not transactional.
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISR.
timeout_ms	The timeout to await a response in milliseconds.
topic_data	Each topic to produce to.
name	The topic name.
partition, data	Each partition to produce to.
Index	The partition index
records	The record data to be produced.

timeout\_ms 
INT32

topic\_data 
name [partition\_data]
name 
STRING

partition\_data 
index records
index 
INT32

records 
RECORDS

FELD	DESCRIPTION
transactional_id	The transactional ID, or null if the producer is not transactional.
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISR.
timeout_ms	The timeout to await a response in milliseconds.
topic_data	Each topic to produce to.
nama	The topic name.
partition_data	Each partition to produce to.
Index	The partition index.
records	The record data to be produced.

Produce Request (Version: 7) -> transactional\_id acks timeout\_ms [topic\_data]
transactional\_id -> MRLLMARE\_STRING
acks -> DATE
timeout\_ms -> Inva:

FELD	DESCRIPTION
transactional_id	The transactional ID, or null if the producer is not transactional.
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISR.
timeout_ms	The timeout to await a response in milliseconds.
topic_data	Each topic to produce to.
name	The topic name.
partition_data	Each partition to produce to.
Index	The partition index:
records	The record data to be produced.

Produce Reposet (Version: 8) -> transactional\_id acks timeout\_ss [topic\_data]
transactional\_id -> MRLABE\_STRING
acks -> DIVIS
timeout\_ss -> INTUS
timeout\_ss -> INTUS
name -> STRING
name -> STRING
name -> STRING
retries -> MRCANG
topic\_data -> MRCANG
topic\_data -> MRCANG
topic\_data -> MRCANG
topic\_data -> MRCANG

FELD	DESCRIPTION
transactional_id	The transactional ID, or null if the producer is not transactional.
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISP.
timeout, ms	The timeout to await a response in milliseconds.
topic_data	Each topic to produce to.
name	The topic name.
partition_data	Each partition to produce to.
Index	The partition index.
records	The record data to be produced.

Produce Request (Version: 9) → transactional\_id acts timeout\_ms [topic\_data] TAG\_REFFER
transactional\_id → COMPACT\_NELABLE\_STRING
acts → DITES
timeout\_ms → INTES
tringer\_ms → INTES
tringer\_ms → INTES
tringer\_ms → COMPACT\_STRING
none → COMPACT\_STRING
topic\_data → none partition\_data] TAG\_REFFER
none → COMPACT\_STRING
topic\_ms → INTES
topic\_ms →

FIELD	DESCRIPTION
FELD	DESCRIPTION
transactional_jd	The transactional ID, or null if the producer is not transactional.
acks	The number of acknowledgments the producer requires the leader to have received before considering a request complete. Allowed values: 0 for no acknowledgments, 1 for only the leader and -1 for the full ISP.
timeout_ms	The timeout to await a response in milliseconds.
topic_data	Each topic to produce to.
name	The topic name.
partition_data	Each partition to produce to.
index	The partition index.
records	The record data to be produced.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
Jagged_fields	The tagged fields

## Responses:

Produce Response (Version: 8)  $\Rightarrow$  [responses]
responses  $\Rightarrow$  name [partition\_responses]
name  $\Rightarrow$  STRUM
partition\_responses  $\Rightarrow$  index error\_code base\_offset
index  $\Rightarrow$  INTI2
error\_code  $\Rightarrow$  INTI6
base\_offset  $\Rightarrow$  INTI64

FELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index.
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.

Produce Response (Version: 1) ⇒ [responses] throttle\_time\_ms
responses ⇒ name [partition\_responses]
name ⇒ STRUE
partition\_responses ⇒ index error\_code base\_offset
index ⇒ DITG
arror\_code ⇒ DITG
throttle\_time\_ms → DITG2

FIELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index.
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Version: 2) → [responses] throttle\_lise\_ms
responses → name [partition\_responses]
name → STRING
partition\_responses → index error\_code base\_offset log\_append\_lise\_ms
index → INTID
error\_code → INTID
error\_code → INTID
throttle\_lise\_ms → INTID
throttle\_lise\_ms → INTID
throttle\_lise\_ms → INTID

FELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index.
error_code	The error code, or 0 if there was no error.
base offset	The base offset.
log.append_time_ms	The timestamp returned by broker after appending the messages. If CreateTime is used for the topic, the timestamp will be 1. If Log-lopendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Version: 3) >>> [responses] throttle\_time\_ms
responses >> name [partition\_responses]
name >> STRUM
partition\_responses >> name (partition\_responses)
name >> TRUM
partition\_responses >> name responses
name >> name responses >> name responses
name

FIELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
index	The partition index:
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.
log_append_time_ms	The timestamp returned by broker after appending the messages. If Create Time is used for the topic, the timestamp will be 1. If LopAppendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Version: 4)  $\infty$  [responses] throttle\_time\_ss responses  $\infty$  mase [partition\_responses] came  $\infty$  STRUMG partition\_responses  $\infty$  minded from the form of the partition\_responses  $\infty$  minded from the form of the partition\_responses  $\infty$  minded from the form of the form o

FIELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index:
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.
log_append_time_ms	The timestamp returned by broker after appending the messages. If CreateTime is used for the topic, the timestamp will be 1. If Log-lopendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
throttle_time_ms	The duration in milliseconds for which the request was throttied due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Version: 5)  $\Rightarrow$  [responses] threatle\_time\_ms
response  $\Rightarrow$  name [partition\_responses]
came  $\Rightarrow$  TRIM
partition\_responses  $\Rightarrow$  index error\_code base\_offset log\_append\_time\_ms log\_start\_offset
index  $\Rightarrow$  IRITE
arer code  $\Rightarrow$  IRITE
base\_offset  $\Rightarrow$  IRITE
log\_append\_time\_ms  $\Rightarrow$  IRITE
log\_append\_time\_ms  $\Rightarrow$  IRITE
log\_append\_time\_ms  $\Rightarrow$  IRITE
log\_append\_time\_ms  $\Rightarrow$  IRITE
threatle\_time\_ms  $\Rightarrow$  IRITE
threatle\_time\_ms  $\Rightarrow$  IRITE
threatle\_time\_ms  $\Rightarrow$  IRITE

FIELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index.
error_code	The error code, or 0 if there was no error.
base offset	The base offset.
log_append_time_ms	The timestamp returned by broker after appending the messages. If Create Time is used for the topic, the timestamp will be 1. If LopkppendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
log_start_offset	The log start offset.
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Persion: 6) \*\* [responses] threatile\_time\_ms
responses \*\* mame [partition\_responses]
name \*\* STRING
partition\_responses \*\* index error\_code base\_offset log\_uppend\_time\_ms log\_start\_offset
index \*\* STRING
partition\_responses \*\* index error\_code base\_offset log\_uppend\_time\_ms log\_start\_offset
lodex \*\* STRING
base\_offset \*\* ONTE4
log\_uppend\_time\_ms \*\* ONTE4
log\_uppend\_time\_ms \*\* ONTE4
throutie\_time\_ms \*\* DNTE4

FELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index.
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.
log_append_time_ma	The timestamp returned by broker after appending the messages. If Create Time is used for the topic, the timestamp will be 1. If Lop/appendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
log_start_offset	The log start offset.
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Version: 7) -> [responses] throttle\_time\_ss
responses -> name [partition\_responses]
name -> STRING
partition\_responses -> index error\_code base\_offset log\_append\_time\_ms log\_start\_offset
index -> NIVIS
arear\_code -> NIVIS
base\_offset -> NIVIS
log\_append\_time\_ms -> NIVIS
log\_append\_time\_ms -> NIVIS
log\_append\_time\_ms -> NIVIS
throttle\_time\_ms -> NIVIS
throttle\_time\_ms -> NIVIS

PIELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
index	The partition index.
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.
log_append_time_ms	The timestamp returned by broker after appending the messages. If Create Time is used for the topic, the timestamp will be 1. If LogAppendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
log_start_offset	The log start offset.
throttis_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

Produce Response (Version: 8) -> [responses] throttle\_time\_ms
responses -> mane [partition\_responses]
name -> STRME
name -> STRME
name -> STRME
name -> Links error\_code base\_effset log\_append\_time\_ms log\_start\_offset [record\_error] error\_mescage
time -> NTTA
norac\_code -> NTTA
log\_append\_time\_ms -> NTTA
log\_append\_ti

FELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index.
error_code	The error code, or 0 if there was no error.
base_offset	The base offset.
log_append_time_ms	The timestamp returned by broker after appending the messages. If CreateTime is used for the topic, the timestamp will be 1. If LogAppendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
log_start_offset	The log start offset.
record_emors	The batch indices of records that caused the batch to be dropped
batch_index	The batch index of the record that cause the batch to be dropped
batch_index_error_message	The error message of the record that caused the batch to be dropped

The global error message summatting the common not cause of the records that caused the batch to be despect

Through Response (Vertion: 8) ~ (responses) [Through Response (Vertion: 8) ~ (Vertion: 8) ~

FIELD	DESCRIPTION
responses	Each produce response
name	The topic name
partition_responses	Each partition that we produced to within the topic.
Index	The partition index
error_code	The error code, or 0 if there was no error.
base offset	The base offset.
log_append_time_ma	The timestamp returned by broker after appending the messages. If CleateTime is used for the topic, the timestamp will be -1. If LogAppendTime is used for the topic, the timestamp will be the broker local time when the messages are appended.
log_start_offset	The log start offset.
record_emors	The batch indices of records that caused the batch to be dropped
batch_index	The batch index of the record that cause the batch to be dropped
batch_index_error_message	The error message of the record that caused the batch to be dropped
_tagged_fields	The tagged fields
error_message	The global error message summarizing the common root cause of the records that caused the batch to be dropped
_magged_fields	The tagged fields
_magged_fields	The tagged fields
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
_tagged_fields	The tagged fields

### Fetch API (Key: 1):

### Requests

Tetch Sequet (Version: 8) -> replica\_id mas\_wait\_ms min\_bytes [tepics]
replica\_id -> INT2]

mat\_wait\_ms -> INT2

mat\_wait\_ms -> Tenica\_id

partitions -> partition fetch\_offset partition\_max\_bytes

partition -> INT22

fetch\_offsets -> INT84

partition\_max\_bytes -> INT82

FELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ma	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index.
fetch_offset	The massage offset.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIR-74 for cases where this limit may not be honored.

Fetch Request (Mersion: 1) are replica\_id max\_wait\_ms min\_bytes [topics] replica\_id are NUT2:

max\_wait\_ms = NUT2:

max\_wait\_ms = NUT2:

topics = NUT0:

topic = NUT0:

partition = Opic [partition]

partition = Opic [max\_wait]

partition = Opic [max\_wait]

partition = Opic [max\_wait]

fetch\_offets = NUT0:

fetch\_offets = NUT0:

partition\_max\_bytes = NUT0:

FELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ms	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
topics	The togics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index.
fetch_offset	The message offset.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.

FELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ma	The maximum time in milliseconds to wait for the response.
min, bytes	The minimum bytes to accumulate in the response.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index.
fetch, offset	The massage offset.
partition, max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.

Fatto Request (Worlian: 3) -> replica\_id max\_wait\_ms min\_bytes max\_bytes [topics]
replica\_id -> 10172
max\_wait\_ms to NTM2
min\_bytes -> 10172
topics -> 10174
topic -> 10174
partition -> partition fetch\_offset partition\_max\_bytes
partition -> 101764
partition\_ms\_bytes -> 101764
partition\_ms\_bytes -> 101764
partition\_ms\_bytes -> 101764

FELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ms	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
max, bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index.
fetch_offset	The message offset.
partition, max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.

Fetch Request (Version: 4)  $\Rightarrow$  replica\_id max\_wait\_se min\_bytes max\_bytes isolation\_level [topics] replica\_id  $\Rightarrow$  DHT22 max\_wait\_se  $\Rightarrow$  DHT22 min\_bytes  $\Rightarrow$  DHT22 min\_bytes  $\Rightarrow$  DHT22 min\_bytes  $\Rightarrow$  DHT22 min\_bytes  $\Rightarrow$  DHT21 min\_bytes  $\Rightarrow$  DHT21 min\_bytes  $\Rightarrow$  DHT21 min\_bytes  $\Rightarrow$  DHT22 min\_bytes  $\Rightarrow$  DHT23 min\_bytes  $\Rightarrow$  DHT24 min\_bytes  $\Rightarrow$  DHT24 min\_bytes  $\Rightarrow$  DHT25 min\_bytes  $\Rightarrow$  DHT26 min\_bytes  $\Rightarrow$  DHT26 min\_bytes  $\Rightarrow$  DHT26 min\_bytes  $\Rightarrow$  DHT27 min\_bytes  $\Rightarrow$  DHT27 min\_bytes  $\Rightarrow$  DHT28 min\_bytes  $\Rightarrow$  DHT29 min\_

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PRESENTED AND THE SECURITY OF the STOCKNESS OF 1 of the request is form a consumer.

The security of the Stockness of 1 of the request is form a consumer.

The maximum free in militacends to see the represe.

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Tech Asspert (Wreign: 5) ~ replica\_id max\_wait\_ms min bytes max\_bytes isolation\_level [topics]

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The braker 1D of the follows of 1 if this request is form a consume.

The braker 1D of the follows of 1 if this request is form a consume.

The maximum tens in milliseconds to set for the response.

max\_Puts

The maximum bytes to forth. Set MDP-14 for cases where this limit may not be boroard.

max\_Puts

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In the maximum bytes to feeth from this partition. Set MDP-14 for cases when this limit may not be boroard.

Fatch Request (Version: 6) -> replica\_id max\_wait\_ms min\_bytes max\_bytes isolation\_level [topics]
replica\_id -> DHT22
max\_wait\_ms => DHT22
max\_bytes -> DHT22
max\_bytes -> DHT21
max\_bytes -> DHT21
max\_bytes -> DHT21
max\_bytes -> DHT22
max\_bytes -> DHT22
max\_bytes -> DHT24
max\_byt

FELD SCICIOPTION

Replicação

File April Comment on the includence of 1 if this request is from a consumer.

The reasonament than it is replicated in the following of 1 if this request is from a consumer.

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THE ADMINISTRATION OF IT IT THIS REQUEST.

THE ADMINISTRATION

Fatch Request (Version: 8) -> replica\_id max\_wait\_ms min\_bytes max\_bytes isolation\_tevel session\_id session\_spech [topics] [forgotten\_topics\_data] replica\_id -> DHT2
max\_bytes -> DHT2
max\_byte

FELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
man male ma	The second secon

min_bytes	The minimum bytes to accumulate in the response.
max bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
toolation_level	This satisface growths the visibility of transactional records. Storing Policy JMCOMMITTED (relative), level = 0) makes all records visible. With PEAD_COMMITTED (relative), level = 1), non-transactional and COMMITTED resources are visible. To be more occorous, READ_COMMITTED returns at data from offsets smaller than the current LSO (last stable offset), and enables the inclusion of the list of aborted transactions in the result, which allows consumes to discarde ARRITED transactional records.
session_id	The fetch session ID.
session_epoch	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index:
fetch_offset	The message offset.
log_start_offset	The earliest available offset of the follower replice. The field is only used when the request is sent by the follower.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic	The topic name.
partitions	The partitions indexes to forget.

partitions

Fetch Request (Version: 9) -> replica\_id max\_wait\_ms min\_bytes max\_bytes isolation\_level session\_id session\_apoch [topics] [forgotten\_topics\_data] replica\_id -> NTT2
max\_wait\_ms co NTT2
max\_wait\_ms co NTT2
max\_bytes -> NTT2
max\_bytes

FIELD	DESCRIPTION
replica_id	The broker ID of the follower of -1 if this request is from a consumer.
max_wait_ms	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
max, bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
todation_level	This setting controls the visibility of transactional records. Using READ_IRCOMATTED (solution, level = 0), makes all records validable. With READ_COMATTED (solution_level = 0), non-transactional and COMMATTED instruction and COMMATTED transaction and and COMMATTED transaction and and COMMATTED transaction are controls. READ_COMMATTED for a solution and COMMATTED transaction are controls. READ_COMMATTED for a solution and COMMATTED transaction are controls. READ_COMMATTED for a solution are controls.
session_id	The fetch session ID.
session_spoch	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index:
current_leader_epoch	The current leader epoch of the partition.
fetch_offset	The message offset.
log_start_offset	The earliest available offset of the follower replica. The field is only used when the request is sent by the follower.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic	The topic name.
partitions	The partitions indexes to forget.

Facth Respect (Merzion: 18) \$\rightarrow\$ replica\_id max\_mail\_ms min\_bytes max\_bytes isolation\_level session\_id session\_spech [topica] [forgetten\_topica\_data] replica\_id \$\rightarrow\$ NHT2

max\_mail\_ms = NHT2

max\_mail\_ms = NHT2

max\_mail\_ms = NHT2

max\_mail\_ms = NHT2

max\_ms = NHT2

max\_ms

FIELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ms	The maximum time in milliseconds to wait for the response.
min, bytes	The minimum bytes to accumulate in the response.
max_bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
todation_level	This setting control the visibility of transactional months (sing READ_IRCOMATTED (localatos, level = 0) makes all records visible. With READ_COMATTED (localatos, level = 0) makes all records are visible. To be most occords, READ_COMATTED status all sala from offsets smaller than the current SO (loss stable offset), and enables the inclusion of the list of aborted transactions in the lead, which allows occords, READ_COMATTED status all salas from offsets smaller than the current SO (loss stable offset), and enables the inclusion of the list of aborted transactions in the lead, which allows occords are smaller than the current SO (loss stable offset), and enables the inclusion of the list of aborted transactions in the lead, which allows occords are smaller than the current SO (loss stable offset).
session, Id	The fetch session ID.
session_opoch	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index.
current_leader_epoch	The current leader epoch of the partition.
fetch_offset	The message offset.
log_start_offset	The earliest available offset of the follower replica. The field is only used when the request is sent by the follower.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic	The topic name.
partitions	The partitions indexes to forget.

Facto Respect (Morion: 11) -- replica\_id max\_wait\_ms min\_bytes max\_bytes isolation\_level session\_id session\_apach [topics] [forgetten\_topics\_data] rack\_id replica\_id => NTD2

max\_wait\_ms -> NTD2

max\_bytes -> NTD2

fetc, offset -> NTD4

max\_bytes -> NTD4

max\_

FIELD	DESCRIPTION
replica_id	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ms	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
max_bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
tablisin_level	This setting controls the visibility of the insectional records. Using READ_IRCOMMITTED (solution, level = 0) makes all records visible. With READ_COMMITTED (solution, level = 1), non-transactional and COMMITTED insectional record are reliable. The innex concrete, READ_COMMITTED returns all data from offsets smaller than the current LEO (less stable offset), and exables the inclusion of the less of above the concrete stable and confidence of the less of above the control transactions in the result which allows conseners to discard-READTED transactional records
session_ld	The fetch session ID.
session, apoch	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index.
current_leader_spoch	The current leader epoch of the partition.
fatris officer	The message offset

Select   Lights   Delate   High Except   Delate Except   Delat	Print Edit WE	Tgols Help
log_start_offset	The earliest available offset of the follower replica. The field is only used when the request is sent by the follower.	
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.	
forgotten_topics_data	In an incremental fetch request, the partitions to remove.	
topic	The topic name.	
partitions	The partitions indexes to forget.	
rack, id	Rack ID of the consumer making this request	

Facth Request (Vertion: 12) > replice\_id max\_wait\_ms min\_bytes max\_bytes isolation\_level session\_id session\_epoch [topics] [forgotten\_topicc\_data] rack\_id TAG\_MRFFER
replice\_id= N INT2
max\_wait\_ms = N INT2
max\_wait\_ms =

FELD	DESCRIPTION
replica_ld	The broker ID of the follower of -1 if this request is from a consumer.
max_wait_ms	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
max, bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
isolation_loval	This setting controls the visibility of transactional mosets. Using READ_IRCOMMITTED (solution, level = 0) makes all months visible with READ_COMMITTED (solution, level = 1), non-researctional necessity as visible. To be more occorrect, READ_COMMITTED (setter all each form of the read, which allows consumers to disease READ_COMMITTED (setter all each form of the read, which allows consumers to disease READ_COMMITTED (setter all each form of the read, which allows consumers to disease READ_COMMITTED (setter all each form of the read, which allows consumers to disease READ_COMMITTED (setter all each form of the read, which allows consumers to disease READ_COMMITTED (setter all each form of the read, which allows consumers to disease READ_COMMITTED (setter all each form of the read of the r
session_id	The fetch session ID.
session_spech	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic	The name of the topic to fetch.
partitions	The partitions to fetch.
partition	The partition index:
current_leader_epoch	The current leader epoch of the partition.
fetch_offset	The message offset.
last_fetched_epoch	The spech of the last fetched record or -1 if there is none
log_start_offset	The earliest available offset of the follower replica. The field is only used when the request is sent by the follower.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIIP-74 for cases where this limit may not be honored.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic	The topic name.
partitions	The partitions indexes to forget.
_lagged_fields	The tagged fields
rack,id	Rack ID of the consumer making this request
Jagged Fields	The tagged fields

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Fetch Respect (Writin: 13) >> replica\_id max\_wait\_ms min\_bytes max\_bytes isolation\_level session\_id session\_epoch [topics] [forgetten\_topics\_data] rack\_id TAG\_MFFFR
replica\_id= NTI22
max\_wait\_ms >> NTI22
max\_wait\_ms >> NTI22
max\_bytes >> NTI22
max\_

FELD	DESCRIPTION
replica_ld	The broker ID of the follower, of -1 if this request is from a consumer.
max_wait_ma	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
max_bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
isolation_level	This setting controls the visibility of transactional records. Using READ_UNCOMMETTE (polation, level - 0) makes all records visible. With READ_COMMETTE (polation, level - 1), non-transactional records are visible. To be more concrete, READ_COMMETTED fourtained, level - 1), non-transactions in the result, which allows consumers to discuss AddRITED transactions from the result, which allows consumers to discuss AddRITED transactions in the result, which allows consumers to discuss AddRITED transactions in the result, which allows consumers to discuss AddRITED transactions in the result, which allows
session_id	The fetch session ID.
session_spech	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic_ld	The unique topic ID
partitions	The partitions to fetch.
partition	The partition index.
current_leader_epoch	The current leader epoch of the partition.
fetch_offset	The message offset.
last_fetched_epoch	The spech of the last fetched record or -1 if there is none
log_start_offset	The earliest available offset of the follower replica. The field is only used when the request is sent by the follower.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic_ld	The unique topic ID
partitions	The partitions indexes to forget.
_tagged_fields	The tagged fields
nokjd	Rack ID of the consumer making this request
_tagged_fields	The tagged fields

| Precia Request (Version: 14) -> replice\_id max\_wait\_ms min\_bytes max\_bytes isolation\_level session\_id session\_epoch [topics] [forgottem\_topics\_data] rack\_id TAG\_MOFFER
max\_wait\_ms -> DHTS2
max\_wai

DESCRIPTION
The broker ID of the follower, of -1 if this request is from a consumer.
The maximum time in milliseconds to wait for the response.
The minimum bytes to accumulate in the response.
The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
This setting controls the visibility of transactional records. Using REAQ_INCOMMITTED (isolation_level = 0) makes all records visible. With REAQ_COMMITTED (isolation_level = 1), non-transactional and COMMITTED transactional records as wisible. To be more convent, REAQ_COMMITTED immail all data from offsets smaller than the current 150 (but stable offset), and enables the inclusion of the list of aborted transactions in the result, which allows consumers to describe AMORTED transactions in order
The fetch session ID.
The fetch session epoch, which is used for ordering requests in a session.
The topics to fetch.

partitions	The partitions to fetch.
partition	The partition index:
current_leader_epoch	The current leader epoch of the partition.
fetch_offset	The message offset.
last_fetched_epoch	The epoch of the last fetched record or 1 if there is none
log_start_offset	The earliest available offset of the follower replice. The field is only used when the request is sent by the follower.
partition_max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.
_tagged_fields	The tagged fields
_maged_fields	The tagged fields
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic,id	The unique topic ID
partitions	The partitions indexes to forget.
_tagged_fields	The tagged fields
rack_id	Rack ID of the consumer making this request
_tagged_fields	The tagged fields

FIELD	DESCRIPTION
max_wait_ms	The maximum time in milliseconds to wait for the response.
min_bytes	The minimum bytes to accumulate in the response.
max_bytes	The maximum bytes to fetch. See KIP-74 for cases where this limit may not be honored.
solution_level	This stiffs goodwide the visibility of transactional records. Using REAL, IMCOMMITTO (polation, level - 0) makes all records visible with REAL, COMMITTO (polation, level - 1), non-transactional vanceds are visible. To be more occords as PASSE, COMMITTO (polation, level - 0) makes all records are visible. To be more occords as PASSE, COMMITTO (polation, level - 0) makes all records visible. To be more occords, REAL, COMMITTO (polation, level - 1), non-transactions in the result, which allows consumes to discarde ARRITED transactions or records.
session_ld	The fetch session ID.
session_epoch	The fetch session epoch, which is used for ordering requests in a session.
topics	The topics to fetch.
topic_id	The unique topic ID
partitions	The partitions to fetch.
partition	The partition index
current_leader_epoch	The current leader epoch of the partition.
fetch, offset	The message offset.
last_fitched_epoch	The epoch of the last fetched record or -1 if there is none
log_start_offset	The earliest available offset of the follower replice. The field is only used when the request is sent by the follower.
partition, max_bytes	The maximum bytes to fetch from this partition. See KIP-74 for cases where this limit may not be honored.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
forgotten_topics_data	In an incremental fetch request, the partitions to remove.
topic, id	The unique topic ID
partitions	The partitions indexes to forget.
_tagged_fields	The tagged fields
rack_id	Rack ID of the consumer making this request
_tagged_fields	The tagged fields

### Responses:

Fatch Responses (Version: 0) -> [responses]
responses -> topic [partitions]
topic -> STBID
partitions -> partition index error\_code high\_watermark records
partition index -> DHT2
error\_code -> DHT0
high\_vatermark -> DHT64
records -> RECORDS

FIELD	DESCRIPTION
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
Records	The record data.

Fetch Response (Version: 1) -- threttle\_time\_ms [responses] throttle\_time\_ms >- NTI2
throttle\_time\_ms -- NTIME
topic -- STRIME
partitions -- partition\_index error\_code high\_watermark records
partition -- partition\_index -- NTIME
partition\_topics -- NTIME
topic\_water.or nTIME
topic\_

FIELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
records	The record data.

Fatch Response (Normion: 2)  $\Rightarrow$  throttle\_lime\_ms [responses] throttle\_lime\_ms  $\Rightarrow$  DTT2 throttle\_lime\_ms [responses being legaritimes] topic  $\Rightarrow$  STRIME partitions  $\Rightarrow$  spartition\_index error\_code high\_watermark records partition\_index  $\Rightarrow$  DTT2 error\_code  $\Rightarrow$  DTT6 high\_watermark  $\Rightarrow$  DTM6 records  $\Rightarrow$  REQUES

·	
PELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
records	The record data.

Fetch Response (Vertion: 3) => throttle\_time\_mt [responses] throttle\_time\_mt => 10/12 throttle\_time\_mt => 10/12 topic => 5781MG partitions => 5781MG partitions => 5781MG partition => 578

FELD	DESCRIPTION
throttie_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The response topics.

Tatlo Response (Verials: 4) -> threttle\_time\_ns [responses]
threttle\_time\_ns -> INT2

threttle\_time\_ns -> INT2

topic -> STRING

partitions -> partition\_index error\_code Righ\_watermark last\_stable\_offset [aborted\_transactions] records

partition\_index -> INTE

partition\_index -> INTE

hip\_satermark -> INTE

satermark -> INTE

satermar

FELD	DESCRIPTION
throttle_lime_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
records	The record data.

throttle\_time\_ss o NTT2
responses (Version: 5) o throttle\_time\_ms [responses]
throttle\_time\_ss o NTT2
responses o Upin [partitime]
responses o Upin [partitime]
partitime\_index o NTT2
partitime\_index o NTT3
partitime\_index o NTT4
log\_tart\_offset [aborted\_transactions] records
laig\_buternark o NTT4
laig\_tart\_offset o NTT4
log\_tart\_offset o NTT4
log\_tart\_offset o NTT4
log\_tart\_offset o NTT4
first\_offset o NTT4
first\_offset o NTT4
records o NTT4

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
records	The record data.

Fetch Response (Wersion: 6) - throttle time\_ms [responses]
throttle\_time\_ms - NUT2
responses - Unit [partitions]
tresponses - Unit [partitions]
tresponses - Unit [partition | the error code high\_watermark last\_stable\_offset log\_start\_offset [shorted\_transactions] records
partition\_index - NUTIS
high\_watermark - INTE4
last\_table\_offset - NUTIS
log\_start\_offset - NUTIS
log\_start\_offset - NUTIS
shortest\_transactions - producer\_id first\_offset
producer\_id - NUTIS
first\_offset - NUTIS
records - NUTIS

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
records	The record data.

Fatch Response (Version: 7) -> throttle\_time\_ms error\_code session\_id [responses]
throttle\_time\_ms -> DNTS
error\_code -> DNTS
e

PELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session_id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or L90) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aboried transaction.
vecords	The record data.

aborted\_transactions -> producer\_id first\_offset producer\_id -> INT64 first\_offset -> INT64 records -> RECORDS

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session, id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
records	The record data.

Fatch Response (Werlian: 9) -> throttle\_time\_ms error\_code session\_id [responses]
throttle\_time\_ms -> INT2
throttle\_time\_ms -> INT2
responses -> topic [partition]
topic -> STRING
partitions -> partition\_index error\_code high\_watermark last\_stable\_offset log\_start\_offset [aborted\_transactions] records
partition\_index -> INT3
error\_code -> INT4
log\_start\_offset -> INT4
first\_offset -> INT4
first\_offset -> INT4
records -> RECORDS

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session_id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
pertition_index	The partition index
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
records	The record data.

Fetch Response (Version: 18) at throttle\_time\_ms error\_code session\_id [responses]
throttle\_time\_ms are INTE2
error\_code = INTE6
ession\_id = 0.NTE6
partition = partition\_index error\_code high\_watermark\_last\_stable\_offset log\_start\_offset [aborted\_transactions] records
partition = 0.NTE6
last\_stable\_offset = 0.NTE6
last\_stable\_offset = 0.NTE6
last\_stable\_offset = 0.NTE6
last\_stable\_offset = 0.NTE6
log\_start\_offset = 0.NTE6
aborted\_transactions = producer\_id first\_offset
producer\_id = 0.NTE6
produ

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session, Jd	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index:
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
records	The record data.

Fetch Response (Version: 11) -> threttle\_time\_ms error\_code session\_id [responses]
threttle\_time\_ms -> DMT2
error\_code -> DMT6
error\_code -> DMT6
error\_code -> DMT6
partitions -> partition\_index error\_code hiph\_watermark last\_stable\_offset log\_start\_offset [aborted\_transactions) preferred\_read\_replica records
partition\_index -> DMT6
last\_stable\_offset -> DMT6
last\_stabl

PIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session_id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
preferred_read_replica	The preferred read replica for the consumer to use on its next fetch request
records	The record data.

Fatch Response (Version: 12)  $\rightarrow$  throttle\_time\_ms error\_code session\_id [responses] TAG\_BUFFER
throttle\_time\_ms  $\rightarrow$  INTS

service (see = NUTS)

service (s

PELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session_id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic	The topic name.
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
_tagged_fields	The tagged fields
preferred_read_replica	The preferred read replica for the consumer to use on its next fetch request
seconds	The record data.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session, id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic, id	The unique topic ID
partitions	The topic partitions.
partition_index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
_tagged_fields	The tagged fields
preferred_read_replica	The preferred read replica for the consumer to use on its next fetch request
Records	The record data.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Fatch Response (Version: 14) as throttle time as error code session id [responses] TAG\_BUFFER
throttle\_time\_as => NTH22
error\_code >= DUTA
error\_code >= DUTA
topic\_id >= DUTA
topic\_id >= DUTA
partitions == DUTA
partition inches >= DUTA
partition |= DUTA
product |= DUT

FIELD	DESCRIPTION
throttle, time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session_id	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic_id	The unique topic ID
partitions	The topic partitions.
partition_index	The partition index:
error_cade	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
lest_stable_offset	The last stable offset (or LSO) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)
log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer_id	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
_lagged_fields	The tagged fields
proferred_road_roptica	The preferred read replica for the consumer to use on its next fetch request
records	The record data
Jagged_fields	The tagged fields
_lagged_fields	The tagged fields
_lagged_fields	The tagged fields

Tech Regimes (Virtion: 15) of thrattle\_time\_ms error\_code session\_id [responses] TAG\_BOFFER
thrattle\_time\_ms or NTM2
thrattle\_time\_ms or NTM2
thrattle\_time\_ms or NTM2
responses to topic jd= partitions; TAG\_BOFFER
topic jd= to UED
partitions or partition jddec error\_code high\_watermark last\_stable\_offset log\_start\_offset [aborted\_transactions] preferred\_read\_replica records TAG\_BOFFER
partition\_index to NTM4
last\_stable\_offset to NTM4
last\_stable\_offset to NTM4
last\_stable\_offset to NTM4
aborted\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ to DTM4
aborted\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ to DTM4
tint\_offset to NTM4
aborted\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ to DTM4
tint\_offset to NTM4
aborted\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ to DTM4
tint\_offset to NTM4
compared\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ and DTM4
tint\_offset to NTM4
compared\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ and DTM4
tint\_offset to NTM4
compared\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ and DTM4
tint\_offset to NTM4
compared\_transactions or produce\_id first\_offset TAG\_BOFFER
produce\_ig\_ and DTM4
compared\_transactions or produce\_id first\_offset TAG\_BOFFER
compared\_tr

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
session, jd	The fetch session ID, or 0 if this is not part of a fetch session.
responses	The response topics.
topic, id	The unique topic ID
partitions	The topic partitions.
partition, index	The partition index.
error_code	The error code, or 0 if there was no fetch error.
high_watermark	The current high water mark.
last_stable_offset	The last stable offset (or L90) of the partition. This is the last offset such that the state of all transactional records prior to this offset have been decided (ABORTED or COMMITTED)

log_start_offset	The current log start offset.
aborted_transactions	The aborted transactions.
producer  d	The producer id associated with the aborted transaction.
first_offset	The first offset in the aborted transaction.
_tagged_fields	The tagged felds
preferred_road_replica	The preferred read replica for the consumer to use on its next fetch request
records	The record data.
_taggad_fields	The tagged fields
_tagged_fields	The tagged felds
tagged fields	The tapped fields

## ListOffsets API (Key: 2):

### Requests

ListOffsets Request (Version: 0) → replica\_id [topics]
replica\_id → IMT2
replica\_id → IMT4
replica\_id

FIELD	DESCRIPTION
replica_ld	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request.
partition_index	The partition index:
timestamp	The current timestamp.
max_num_offsets	The maximum number of offsets to report.

ListOffsets Request (Wersion: 1)  $\Rightarrow$  replica\_id [topics] replica\_id  $\Rightarrow$  DHT22 topics  $\Rightarrow$  name [partitions] name  $\Rightarrow$  STREME partitions  $\Rightarrow$  partition\_index limestamp partition\_index  $\Rightarrow$  DHT54 timestamp  $\Rightarrow$  DHT64

FELD	DESCRIPTION
replica_id	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request.
partition_index	The partition index:
timestamp	The current timestamp.

ListOffset Repast (Worison: 2)  $\infty$  replica\_id\_isolation\_level [topics] replica\_id  $\infty$  NNT2 isolation\_level  $\infty$  NNTB topics  $\infty$  name [partitions] name  $\infty$  STRICE partition  $\infty$  partition index insentane partition index insentane partition\_index  $\infty$  NNTSZ timestane  $\infty$ 

FELD	DESCRIPTION
replica_id	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
tactanion_level	This setting controls the visibility of transactional records. Using REFA_UNCAMINITED polaration, level + (i) newher all records visible with REFA_COMMITTED (polaration, level + (ii) non-transactional and COMMITTED (results and all of the control and a
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request.
partition_index	The partition index:
timestump	The current timestamp.

ListOffrest Request (Wersion: 3)  $\Rightarrow$  replica\_id\_isolation\_level [tepics] replica\_id  $\Rightarrow$  NNT2 isolation\_level  $\Rightarrow$  NNT8 topics  $\Rightarrow$  name [partitions] name  $\Rightarrow$  STRUM:

partition:  $\Rightarrow$  partition\_index insettamp
partition\_index  $\Rightarrow$  NNT2 itemstamp
partition\_index  $\Rightarrow$  NNT2 itemstamp
partition\_index  $\Rightarrow$  NNT3

FELD	DESCRIPTION
replica_id	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
technion_lovel	This setting controls the visibility of transactional records. Using REAQ_INCOMMITTED (potation_level = 0) makes all records visible. With REAQ_COMMITTED (potation_level = 1), non-transactional and COMMITTED transactional records are solded. To be more concern, REAQ_COMMITTED returns all data from offsets smaller than the convert LSO (but stable offset), and enables the inclusion of the lat of aborted transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result, which allows consumers to decade offsets transactions in the result which allows consumers to decade offsets the results of t
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request.
partition_index	The partition index.
timestamp	The current simestamp.

ListOffset Repart (Version: 4)  $\Rightarrow$  replica\_id\_isolation\_level [topics] replica\_id  $\Rightarrow$  DNT22 isolation\_level  $\Rightarrow$  DNT2 topics  $\Rightarrow$  case [arritions] case  $\Rightarrow$  STRID partition\_index current\_leader\_sport timestramp partition\_index  $\Rightarrow$  DNT22 current\_leader\_sport  $\Rightarrow$  DNT23 current\_leader\_sport  $\Rightarrow$  DNT24 current\_leader\_sport  $\Rightarrow$  DNT25 current\_leader

FIELD	DESCRIPTION
replica_id	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
asolation_level	This setting controls the visibility of transactional records. Using REAL UNCOMMITED (locations, level + 0) makes all records visible. With REAL COMMITTED (solution, level + 1) non-transactional and COMMITTED (returns all data from offsets smaller than the current LEO (last stable offset), and enables the inclusion of the list of aborted transactions in the result, which allows consumers to discarde ARCHITED transactional records.
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request.
partition_index	The partition index.
current_leader_spech	The current leader epoch.
timestamp	The current timestamp.

ListOffsets Request (Werzion: 5) or replica id isolation\_level [topics] replica\_id or NHT2 isolation\_level or NHTB topics or name [partitions] name or SHTML includes correct\_leader\_sport timestamp partition\_index or NHTS correct\_leader\_sport timestamp partition\_index or NHTS correct\_leader\_sport name or NHTS timestamp or NHTS timestam

FIELD	DESCRIPTION
replica_id	The broker ID of the requester, or -I if this request is being made by a normal consumer.
todation_low!	This setting controls the visibility of transactional records. Using EREA_INFORMATTED (location, level = 0) makes all records visible. With EREA_COMMITTED (sociation, level = 1), non-tensectional and COMMITTED interactional records are visible. To be more concrete, READ_COMMITTED (stature all data from offsets smaller than the current SO (last stable offset), and enables the inclusion of the last of aborted transactions in the read, which allows consumers to discuss ARROTTED inspectional records.
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request:
partition_index	The partition index.
current_leader_epoch	The current leader epoch.
timestamp	The current timestamp.

ListOffsets Request (Version: 6)  $\Rightarrow$  replica id isolation\_level [topics] TAG\_REFER replica\_id  $\Rightarrow$  .NHT2 isolation\_level  $\Rightarrow$ 

FIELD	DESCRIPTION
roplica_id	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
toclation_level	This setting controls the visibility of transactional records. Stong PADL_NECOMMITTED (includes)_level = 0) makes all records visibility. With READ_COMMITTED (includes)_level = 1), non-researchead and COMMITTED researchead records are skible. To be more concrete, READ_COMMITTED (includes)_level = 0) makes all records visibility. To be more concrete, READ_COMMITTED returns all data from offsets smaller than the current LEO (past stable offset), and enables this inclusion of the list of aborted transactions in the read, which allows consumers to diseared ADMITTED transactional records.
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request.
partition_index	The partition index.
current_leader_epoch	The current leader epoch.
timestamp	The current timestamp.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

ListOffsets Request (Verion: 7)  $\Rightarrow$  replica\_id isolation\_level [topics] TAG\_REFER replica\_id  $\Rightarrow$  DNT2 isolation\_level  $\Rightarrow$ 

FIELD	DESCRIPTION
replica_id	The broker ID of the requester, or -1 if this request is being made by a normal consumer.
solution_level	This setting controls the visibility of transactional records. Using REPAL (MICOMETTE) positions, level + 0) makes all records visible with REAL COMMITTED (solitation, level + 1) non-transactional and COMMITTED (nature all data from offsets smaller than the current LSO (last stable offset), and enables the inclusion of the list of aborted transactions in the result, which allows consumers to discarde ARROTTED transactional records
topics	Each topic in the request.
name	The topic name.
partitions	Each partition in the request:
partition_index	The partition index.
current_leader_spech	The current leader epoch.
timestamp	The current timestamp.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

ListOffsets Request (Morion: 8)  $\rightarrow$  replica\_id isolation\_level [topics] TAG\_RUFFER replica\_id  $\rightarrow$  NHT22 isolation\_level  $\rightarrow$  NHT3 isolation\_level  $\rightarrow$  NHT3 isolation\_level  $\rightarrow$  NHT3 representation\_level  $\rightarrow$  NHT4 representation\_level  $\rightarrow$  NHT54 representation\_level\_l

DESCRIPTION
The broker ID of the requester, or -1 if this request is being made by a normal consumer.
This setting controls the visibility of treassetand records. Using #Edu JH/COMMITTED (piculation, level + 1) makes all records visible with #Edu JCOMMITTED (piculation, level + 1) montroperational records are visible. To be more concrete, FEAD_COMMITTED results all data from offsets smaller than the current LSO (jest stable offset), and enables the inclusion of the last of aborted transactions in the result, which allows consume to the decord ABORTED transactional records
Each topic in the request.
The topic name.
Each partition in the request.
The partition index.
The current leader epoch.
The current timestamp.
The tagged fields
The tagged fields
The tagged fields

### Responses:

ListOffsets Response (Version: 8) -> [topics]
topics -> came [partitions]
name -> TRIVE
partitions -> partition [index error\_code [old\_thyle\_offsets]
partition (nodex -> NATE)
error\_code -> INTEL
sid\_tyle\_offsets -> INTEL
sid\_

FIELD	DESCRIPTION
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition, index	The partition index.
error_code	The partition error code, or 0 if there was no error.
old, style offsets	The result offsets.

ListOffsets Response (Version: 1) -> [topics]
topics -- name [partitions]
name -- STRHIG
partitions -- partition\_index error\_code timestamp offset
partition\_index -- DHT22
error\_code -- DHT66
timestamp -- DHT64
offset -- DHT64

FIELD	DESCRIPTION
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition_index	The partition index:
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The returned offset:

ListOffsets Response (Version: 2)  $\Rightarrow$  throttle\_time\_ms [topics] throttle\_time\_s  $\Rightarrow$  DNT2 project  $\Rightarrow$  ame [partitions] name  $\Rightarrow$  STRING partitions; operation  $\Rightarrow$  partition  $\Rightarrow$  DNTS partition [note  $\Rightarrow$  DNTS] partition  $\Rightarrow$  DNTS  $\Rightarrow$  DNTS4 offset  $\Rightarrow$  DNTS4

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset:
offset	The returned offset.

ListOffsets Response (Version: 3) --> throttle\_time\_ms [topics] throttle\_time\_ms = DHT2 topics --> name\_partitions] name --> SHTMS partitions --> partition --> partition

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.

name	The topic name
	Each partition in the response.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The inturned offset

ListOffsets Response (Version: 4) -> throttle\_time\_ms [topics]
throttle\_time\_ms -> DMT32
topics -> name [partition].
partition\_sheet -> DMT32
partition\_lodes -> DMT32
arror\_code -> DMT45
timestamp -> DMT46
timestamp -> DMT46
loader\_epoch -> DMT46

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The returned offset:
leader_epoch	

ListOffests Response (Worsion: 5)  $\Rightarrow$  throttle\_time\_ms [topics] throttle\_time\_ms  $\Rightarrow$  JUT2 copics  $\Rightarrow$  name [aprillions] name  $\Rightarrow$  STRIME partition | name  $\Rightarrow$  STRIME partition  $\Rightarrow$  partition | nodes  $\Rightarrow$  DUT2 partition\_index orror\_code timestamp offset leader\_spoch partition\_bodes  $\Rightarrow$  DUT3 timestamp  $\Rightarrow$  DUT4 timestamp  $\Rightarrow$  DUT4 leader\_spoch  $\Rightarrow$  DUT4 leader\_spoch  $\Rightarrow$  DUT4 leader\_spoch  $\Rightarrow$  DUT4 leader\_spoch  $\Rightarrow$  DUT42

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The returned offset:
leader_epoch	

ListOffsets Response (Version: 6) -> throttle\_time\_ms [topics] TAG\_REFER
throttle\_time\_ms -> INT2
topics -> nems [partitions] TAG\_REFER
name -> COPMCT\_STRIBG
partitions -> OPMCT\_STRIBG
partition index -> INT2
partition index -> INT2
timestamp -> INT6
timestamp -> INT6
topics -> INT6
topics

FIELD	DESCRIPTION
throttis_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition, index	The partition index.
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The returned offset.
leader_spoch	
_tagged_fields	The tagged fields
_Inagged_fields	The tagged fields
_taggad_fields	The tagged fields

LittOffsets Response (Version: 7)  $\sim$  throttle\_time\_ms [topics] TAG\_MEFFER
throttle\_time\_ms  $\sim$  NT92
topics  $\sim$  name [partitions] TAG\_MEFFER
apartition\_profittion\_index error\_code timestamp offset loader\_spech TAG\_MEFFER
arror\_code  $\sim$  NTM5
timestamp  $\sim$  NTM5
timestamp  $\sim$  NTM5
loader\_spech  $\sim$  NTM5
loader\_spech  $\sim$  NTM5
loader\_spech  $\sim$  NTM5

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition, index	The partition index:
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The returned offset:
leader_spoch	
_tagged_fields	The tagged fields
_Inagged_fields	The tagged fields
_Inagged_fields	The tagged fields

ListOffset Response (Version: 1) \$\infty\$ threatle time\_Ms [topics] TAG\_MMFFER threatle time\_Ms = NNT2 |
threatle time\_Ms \$\infty\$ MINTER threatle time\_Ms [topics] TAG\_MMFFER |
topics \$\infty\$ analysis of MINTER |
topics \$\infty\$ manual partition |
partition = partition |
topics of MINTER |
timestamp \$\infty\$ NINTER |
timestamp \$\infty\$ NINTER |
topics minter |
timestamp \$\infty\$ NINTER |
topics minter |
topics

FELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition, index	The partition index.
error_code	The partition error code, or 0 if there was no error.
timestamp	The timestamp associated with the returned offset.
offset	The returned offset.
leader_spoch	
_Inagged_fields	The tagged fields
_Inagged_fields	The tagged fields
_Inagged_fields	The tagged fields

## Metadata API (Key: 3

## Requests

Metadata Roquest (Vérsion: 0) ⇒ [topics]
topics → name
name → STRING

Į	FELD	DESCRIPTION
	topics	The topics to fetch metadata for.

FIELD	DESCRIPTION
topics	The topics to fetch metadata for.
name	The topic name.
_tagged_fields	The tagged fields
allow_auto_topic_enation	If this is true, the broker may auto-create topics that we requested which do not already exist, if it is configured to do so.
include_cluster_authorized_operations	Whether to include cluster authorized operations.
include_topic_authorized_eperations	Whether to include topic authorized operations.
_tagged_fields	The tagged fields

Netadata Request (Version: 10) >> [topics] allow\_aute\_topic\_creation include\_cluster\_authorized\_operations include\_topic\_authorized\_operations TAG\_DBFFER
topics or topic\_id name TAG\_DBFFER
topic\_id >> USD
name or COMPACT\_BBLIABLE\_TIRING
allow\_art\_topic\_creation >> BORGAN
include\_creation >> BORGAN
include\_creation >> BORGAN
include\_topic\_authorized\_operation >> BORGAN

FIELD	DESCRIPTION
topics	The topics to fetch metadata for.
topic.ld	The topic id.
name	The topic name.
_tagged_fields	The tagged fields
allow_auto_topic_creation	If this is true, the broker may auto-create topics that we requested which do not already exist, if it is configured to do so.
include_cluster_authorized_operations	Whether to include cluster authorized operations.
include_topic_authorized_eperations	Whether to include topic authorized operations.
_tagged_fields	The tagged fields

Metadata Request (Worsion: 11)  $\sim$  [topics] allow auto\_topic\_creation include\_topic\_authorized\_operations TAG\_EMPTER topics  $\sim$  topic\_id  $\sim$  multiple. The control of the c

FELD	DESCRIPTION
topics	The topics to fetch metadata for.
topic, id	The topic id.
name	The topic name.
_magged_fields	The tagged fields
allow_auto_topic_creation	If this is true, the broker may auto-create topics that we requested which do not already exist, if it is configured to do so.
Include_topic_authorized_operations	Whether to include topic authorized operations.
_tagged_fields	The tagged fields

Metadata Request (Version: 12) -> [topics] allow topics -> topic\_id name TAG\_BUFFER topic\_id -> UNID name -> COMPACT\_NULLBALE\_STRING allow\_auto\_topic\_creation -> BOOLEAN include\_topic\_authorized\_poperations -> BOOLEAN

FELD	DESCRIPTION
topics	The topics to fetch metadata for.
topic_ld	The topic id.
name	The topic name.
_lagged_fields	The tagged fields
allow_auto_topic_creation	If this is true, the broker may auto-create topics that we requested which do not already exist, if it is configured to do so.
Include_topic_authorized_operations	Whether to include topic authorized operations.
_tagged_fields	The tagged fields

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### Resmonse

```
Notable Response (Worsian: 8) => [trokers] [topics]

Notable => number | 16 lost port

Notable | 10 lost | 10 lost port

Notable | 10 lost | 10 lost | 10 lost |

Notable |
```

FELD	DESCRIPTION
brokers	Each broker in the response.
node_id	The broker ID.
hoat	The broker hostname.
port	The broker port.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index:
leader_id	The ID of the leader broker.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.

```
Maradata Response (Wersion: 1) -> (Brobers] controller_id [topics]

Meradata Response (Wersion: 1) -> (Brobers] controller_id [topics]

mode. id -> DNT2

mode. id -> DNT2

mode. id -> DNT3

mode. id -> DNT3

mode. id -> DNT3

topic. -> MNLAME.STRIM

controller_id. id. DNT3

topic. -> MT0. DNT3

topic. -> MT0. DNT3

mode. -> STRIM

mode. -> SNTM

mode. -> SNTM

mode. -> DNT3

mode. -> DNT3

mode. -> MNLAME. -> MNLAME. -> DNT3

mode. -> MNLAME. -> DNT3

mode. -> MNLAME. -> MNLAME.
```

FELD	DESCRIPTION
brokers	Each broker in the response.
node_ld	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
controller, id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in syoc with the leader for this partition.

Metadata Response (Wersion: 2) → [brokers] cluster\_id controller\_id [topics] brokers - mode\_id host part rack 
oods\_id ~ NTD2 
bost ~ STRUM 
part of the part of the part 
part of the part 
bost ~ NTD2 
bo

FELD	DESCRIPTION
brokes	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
nack	The rack of the broker, or null if it has not been assigned to a rack.
cluster_id	The cluster ID that responding broker belongs to.
controller, id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.

MENDATE Response (Version: 3) -> threttle\_time\_ms [brokers] cluster\_id controller\_id [topics]
Threatre\_time\_ss -> DMT22
Threatre\_seeds\_id host port rack
node; id >> DMT22
Notice >> STRING
port >> DMT22
Take >> STRING
port >> DMT22
Take >> DMT22
Take >> DMT22
Take >> DMT23
Take >> DMT24
Take >> DMT25
Take >> DMT26
Take >> DMT27
Take >> DMT26
Take >> DMT27
Take >> DMT27
Take >> DMT26
Take >> D

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The horsier hostname

Select   Bide   Quinter   Hijde Except   Ogiese Except   Egernal   Jims     Lindo   Ugdo Al   Sage   Tag Pieces   View Bore   Web Syle     Devices   Communication   Communica	Print Edit WE
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
cluster_id	The cluster ID that responding broker belongs to.
controller id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
nack	The rack of the broker, or null if it has not been assigned to a rack.
cluster_id	The cluster ID that responding broker belongs to.
controller jd	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leador_id	The ID of the leader broker.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.

Matheta Response (Vertion: 5) -- threttie\_time\_ms [brokers] cluster\_id controller\_id [topics]
threttie\_time\_ms.- NIT22
brokers -- mode\_id host port rack
mode\_id= NIT22
bott-- STRING
port-- NIT27
bott-- STRING
port-- NIT27
rack--- NULLABLE\_STRING
cluster\_id= NULLABLE\_STRING
cluster\_id= NULLABLE\_STRING
controller\_id= NULLABLE\_STRING
port-- NIT28
is\_internat -- NULLABLE\_STRING
controller\_id= NULLABLE\_ST

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
cluster_id	The cluster ID that responding broker belongs to.
controller_id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
pertition_index	The partition index.
leader id	The ID of the loader broker.
replica_modes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.
offline_replicas	The set of offline replicas of this partition.

### Additate Response (Version: 6) -> throttle\_time\_ms [brokers] cluster\_id controller\_id [topics] throttle\_time\_ms -> 18722
brokers -> node\_id= NIT22
brokers -> node\_id= NIT22
bost -> STRUME
port -> NIT22
bost -> STRUME
port -> NIT22
bost -> STRUME
crack -> NOLLAME\_STRUME
crack -> NOLLAME\_STRUME
controller\_id -> NIT22
topics -> array code node is\_internal [partitions]
erray code -> NIT30
node -> STRUME
node -> NIT40
partition\_index -> NIT42
topics -> NIT43
partition\_index -> NIT43
topics -> NIT43
partition\_index -> NIT43
topics -> NIT44
topics -> NIT44
topics -> NIT45
topics -> NIT44
topics -> NIT45
to

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or rull if it has not been assigned to a rack.
cluster, id	The cluster ID that responding broker belongs to.
controller id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
replica_nodes	The set of all nodes that host this partition.
lsr_nodes	The set of nodes that are in sync with the leader for this partition.
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```
Netadata Response (Version: 7) -> throttle_time_ms [brokers] cluster_id controller_id [topics]
throttle_time_ms -> NITI2

roterar -> nome_id_ best por rack
node_id -> NITI2

rote_ns_nome_id_ best por rack
node_id -> NITI2

rote_ns_nome_id_ best por rack
node_id -> NITI2

rote_ns_nome_id_ best por rack
node_id -> NITI2

controller_id -> NITI2

rote_ns_nome_id_ best por rack
node_id_ best
```

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
neck	The rack of the broker, or null if it has not been assigned to a rack.
cluster_jd	The cluster ID that responding broker belongs to.
controller, id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index:
Needer, Id	The ID of the leader broker.
leader_spoch	The leader epoch of this partition.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.
offine_replicas	The set of offline replicas of this partition.

RELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokars	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
cluster_id	The cluster ID that responding broker belongs to.
controller id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_cade	The partition error, or 0 if there was no error.
partition_index	The partition index:
Neader_id	The ID of the leader broker.
Nader_spech	The leader spoch of this partition.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.
offline_replices	The set of offline reglicas of this partition.
topic_authorized_operations	32-bit bitfield to represent authorized operations for this topic.
cluster_authorized_operations	32-bit bitfield to represent authorized operations for this cluster.

```
Manadas Response (Wersion: 9) -- threatin_time_ms [brokers] cluster_id controller_id [topics] cluster_matherized_speciations TAG_REFFER
threating is so - 19722
brokers -- mode_id -- DIT32
boti-- COMPACT_STRING
port -- DIT32
boti-- COMPACT_STRING
cluster_id -- COMPACT_STRING
cluster_id -- COMPACT_MODIAGE_STRING
cluster_id -- COMPACT_MODIAGE_STRING
compact_- DIT32
rack -- COMPACT_MODIAGE_STRING
compact_- DIT32
rack -- COMPACT_MODIAGE_STRING
string_id -- COMPACT_MODIAGE_STRING
compact_- DIT36
same -- COMPACT_STRING
is_internal -- MODIAGE
partitions -- WIT32
compact_- DIT36
leader_spond -- WIT32
replica modes -- WIT332
replica modes -- WIT342
replica modes -- WIT342
replica modes --
```

cluster_mutherized_operations -> 10172	
PELD	DESCRIPTION
Wrottle_Nme_ms	The duration in milliseconds for which the request was throttised due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
рогт	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
_lagged_fields	The tagged fields
duster_id	The cluster ID that responding broker belongs to.
controller_id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
leader_epoch	The leader spoch of this partition.
replica_nodes	The set of all nodes that host this partition.
lsr_nodes	The set of nodes that are in sync with the leader for this partition.
offine_replicas	The set of offline replicas of this partition.

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The Lagod fields

Tops, Authorsal, operations for this topic.

Jagod, Spelling Sp

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node, jd	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
_lagged_fields	The tagged fields
cluster_id	The cluster ID that responding broker belongs to.
controller, id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
topic_id	The topic id.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
leader_spech	The leader epoch of this partition.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.
offline_uplicas	The set of offline replicas of this partition.
_Tagged_fields	The tagged fields
topic_authorized_eperations	32-bit bitfield to represent authorized operations for this topic.
_lagged_fields	The tagged fields
duster_authorized_operations	32-bit bitfield to represent authorized operations for this cluster.
Jagged_fields	The tagged fields

Dagonifields

Paradick Raisponse (Vertice: 11) -> the thick time as (brokers) cluster\_id controller\_id [topics] TMG\_BUFFER

the thrette, time as -> 100 TM2

brokers -> mode id= 0.00 TM2

brokers -> mode id= 0.00 TM2

bots -> COMMANT\_STRING

cot -> 100 TM2

paradic -> COMMANT\_STRING

cluster\_id= Conford\_STRINGER\_STRING

topic -> 100 TM2

rac -> COMMANT\_STRINGER\_STRING

topic -> cot -> 0.00 TM3

paradic -> 0.00 TM3

partition -> 0.00 TM3

partiti

	·
PIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
Jagged_fields	The tagged fields
duster_id	The cluster ID that responding broker belongs to.
controller_id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
topic_id	The topic id.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_id	The ID of the leader broker.
leader_spoch	The leader epoch of this partition.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.
offine replicas	The set of offline regicas of this partition.
Jagged_fields	The tagged fields
topic_authorized_eperations	32-bit bitfield to represent authorized operations for this topic.
Laggod_fields	The tagged fields
Laggod_fields	The tagged fields

FELD	DESCRIPTION
throttle_time_rms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
brokers	Each broker in the response.
node_id	The broker ID.
host	The broker hortname

port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
_tagged_fields	The tagged fields
duster_id	The cluster ID that responding broker belongs to.
controller_id	The ID of the controller broker.
topics	Each topic in the response.
error_code	The topic error, or 0 if there was no error.
name	The topic name.
topic, id	The topic id.
is_internal	True if the topic is internal.
partitions	Each partition in the topic.
error_code	The partition error, or 0 if there was no error.
partition_index	The partition index.
leader_jd	The ID of the leader broker.
leader_epoch	The leader epoch of this partition.
replica_nodes	The set of all nodes that host this partition.
isr_nodes	The set of nodes that are in sync with the leader for this partition.
offline_replicas	The set of offline replicas of this partition.
_tagged_fields	The tagged fields
topic_authorized_operations	32-bit bitfield to represent authorized operations for this topic.
_tagged_fields	The tagged fields
_lagged_fields	The tagged fields

## LeaderAndisr API (Key: 4):

```
LeaderAudir Request (Version: 8) -> controller_id controller_epoch [ungrouped partition_states] [live_leaders]
controller_id -> INT22
controller_epoch >> INT22
controller_epoch >> INT22
introller_epoch |> INT22
introller_
```

FELD	DESCRIPTION
controller_id	The current controller ID.
controller_epoch	The current controller epoch.
ungrouped_partition_states	The state of each pertition, in a v0 or v1 message.
topic_name	The topic name. This is only present in v0 or v1.
partition_index	The partition index
controller_spoch	The controller epoch.
leader	The broker ID of the leader.
leader_epoch	The leader epoch.
lar	The in-sync replica IDs.
partition_spech	The current epoch for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the LeaderAnder request is only used by the legacy controller, this corresponds to the 2Mersion)
replicas	The replica IDs.
live_leaders	The current live leaders.
broker id	The leader's broker ID.
host_name	The leader's hostname.
port	The leader's port.

```
Designation of the controller of controller of controller open [ungrouped partition_states] [live_leaders]

Controller_id=> INT22

CONTROLLER_OPEN CONTROLLER

CONTROLLER_OPEN CONTROLLER

CONTROLLER_OPEN CONTROLLER

FOR CON
```

FELD	DESCRIPTION
controller jd	The current controller ID.
controller, spoch	The current controller epoch.
ungrouped_partition_states	The state of each partition, in a v0 or v1 message.
topic_name	The topic name. This is only present in v0 or v1.
partition_index	The partition index.
controller, spech	The controller epoch.
leader	The broker ID of the leader.
leader_epoch	The leader epoch.
iar	The in-type replica IDs.
partition_spooth	The current epoch for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the LeaderAndisr request is only used by the legacy controller, this corresponds to the ablevation)
replicas	The replica IDs.
Is_Dew	Whether the reptica should have existed on the broker or not.
live_leaders	The current live leaders.
broker_id	The leader's broker ID.
host,name	The leader's hostname.
port	The leader's port.

```
pen

LanderAcdir Request (Worsins: 2) -> controller_id controller_spach broker_spach [topic_states] [live_leaders]

controller_id -> INTIZ

controller_spach -> INTIZ

topic_space -> INTIZ

topic_space -> INTIZ

topic_space -> INTIZ

partition_states -> partition_index controller_spach leader leader_spach [isr] partition_spach [replicas] is_new

partition_index -> INTIZ

controller_spach -> INTIZ

tabder_spach -> INTIZ

tabder_spach -> INTIZ

partition_spach -> INTIZ

partition_spach -> INTIZ

partition_spach -> INTIZ

partition_spach -> INTIZ

topic_space -> INTIZ
```

controls, year         The current controller pool.           control year         The current controller pool.           stage, goals         Each tape.           stage, tasks         Each tape.           spec, years         The spec mans.           spectification         The spectification stage.           specification (John         The specification fide.           specification (John         The committed specification fide.           stage of specification (John         The committed specification fide.           stage of specification (John         The specification of the patients (John specified on the locator of act.           stage of specification (John         The specified on the location of a not.		
contain your contain your contain your contain your your your your your your your your	FELD	DESCRIPTION
The connect trainer spoch.  The connect trainer spoch.  See Spoc.  The spoc anne.  The spoc an	controller_id	The current controller ID.
speculation         Each taple.           speculation         The Speculation           speculation         The state of each spectrum           speculation         The partition index           speculation (John         The partition index           consisted upon         The consisted upon           state of each speculation         The basker Gorth In Seader           state of each speculation         The superconsisted upon           surface, apoint         The superconsisted upon           surface, apoint         The surrance upon for the partition. The appoint is a monotonically increasing value which in incremented after every partition change, (Since the Leader/oder request is only used by the lapsey controler, this correspond to the appoint to the special controller. The appoint is the special controller. The appoint is a monotonically increasing value which in incremented after every partition change, (Since the Leader/oder request is only used by the lapsey controller, this correspond to the appoint in the special controller. The appoint is the appoint in the app	controller_spech	The current controller epoch.
The laptic fame. The la	broker_epoch	The current broker apoch.
persison, utates persis	topic_states	Each topic.
perfoci polici perfoci polici	topic_name	The topic name.
consular gooth  The scenarior of the basker  The scenarior of the particion. The epoch is a monotonically norseasing value which is incremented after every partition change. (Since the LeaderAndrior request is only used by the legacy controler, the corresponds to the adversarior of the particion. The epoch is a monotonically norseasing value which is incremented after every partition change. (Since the LeaderAndrior request is only used by the legacy controler, the corresponds to the adversarior of the scenarior of the Scen	partition_states	The state of each partition
seeder Seeder De the Seeder De	partition, index	The partition index:
The ladder apoch.  If the opport register like  The opport register like amontonically increasing value which in incremented after every partition change. (Since the Leader/odder request is only used by the lapacy controlic, this correspond to the  AVENUED.  AVENUED.  Whether the register label blocker or not.	controller_spech	The controller epoch.
The in-type regical Ds.  The current region for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the Leaderholder request is only used by the legacy controller, this corresponds to the advisorior)  regical Ds.  The regical Ds.  The regical Ds.  Whether the regical should have existed on the broker or not.	leader	The broker ID of the leader.
The current epoch for the partition. The epoch is a monotonically increasing value which in incremented after every partition change. (Since the Leader-Andrer request is only used by the largety controller, this corresponds to the average of the partition. The epoch is a monotonically increasing value which in incremented after every partition change. (Since the Leader-Andrer request is only used by the largety controller, this corresponds to the average of the partition. The epoch is a monotonically increasing value which in incremented after every partition change. (Since the Leader-Andrer request is only used by the largety controller, this corresponds to the average of the partition. The epoch is a monotonically increasing value which in incremented after every partition change. (Since the Leader-Andrer request is only used by the largety controller, this corresponds to the average of the partition. The epoch is a monotonically increasing value which in incremented after every partition change. (Since the Leader-Andrer request is only used by the largety controller, this corresponds to the average of the land of the leader-Andrer request is only used by the largety controller, this corresponds to the average of the land of the lan	leader_spoch	The leader epoch.
yarmon, goodh ya	isr	The in-sync replica IDs.
Lynew Whether the regions about horse existed on the broker or not.	partition_apach	
	replicas	The replica IDs.
he Janders The current live leaders.	is_new	Whether the replica should have existed on the broker or not.
	live_leaders	The current live leaders.
The londer's broker Ti	Persider 16	The leaster's broker (i)

post

LeaderAndIsr Request (Version: 3) -> controller\_speck broker\_epoch [topic\_states] [live\_leaders]
controller\_spech > INT2

broker\_epoch > INT2

broker\_epoch > INT4

topic\_name > STRIME

partition\_inters > partition\_inters

topic\_name > STRIME

partition\_inters > partition\_inters

partition\_inters > partition\_inters

partition\_inter > INT2

controller\_epoch > INT2

topic\_name > INT2

partition\_inter > INT2

partition\_inter > INT2

partition\_inters

parti

FIELD	DESCRIPTION
controller_id	The current controller ID.
controller_spech	The current controller epoch.
broker_spoch	The current broker epoch.
topic_states	Each topic.
topic_name	The topic name.
partition_states	The state of each partition
partition_index	The partition index.
controller_epoch	The controller epoch.
leader	The broker ID of the leader.
leader_spoch	The leader epoch.
ise	The in-sync replica IDs.
partition_spech	The current epoch for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the Leader Andier request is only used by the legacy controller, this corresponds to the abbrevious)
replicas	The replica IDs.
adding_replicas	The replica IDs that we are adding this partition to, or null if no replicas are being added.
removing_replicas	The replica IDs that we are removing this partition from, or null if no replicas are being removed.
is_new	Whether the replica should have existed on the broker or not.
live_Joaders	The current live leaders.
broker_id	The leader's broker ID.
host_name	The leader's hostname.
port	The leader's port.

FIELD	DESCRIPTION
controller_id	The current controller ID.
controller_spech	The current controller epoch.
broker, spoch	The current broker epoch.
topic_states	Each topic.
topic_name	The topic name.
partition_states	The state of each partition
partition_index	The partition index:
controller_spech	The controller epoch.
Neoder	The broker ID of the leader.
Nader_spech	The leader epoch.
isc	The in-sync replica IDs.
partition_opoch	The current epoch for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the Leader Andier request is only used by the legacy controller, this corresponds to the abbrevious)
replicas	The replica IDs.
adding_replicas	The replica IDs that we are adding this partition to, or null if no replicas are being added.
removing_replicas	The replica IDs that we are removing this partition from, or null if no replicas are being removed.
is_new	Whether the replica should have existed on the broker or not.
Laggod_fields	The tagged fields
_lagged_fields	The tagged fields
live_leaders	The current live leaders.
broker_td	The leader's broker ID.
host_name	The leader's hostname.
port	The leader's port.
_Imaged_fields	The tagged fields
_lagged_fields	The tagged fields

LeaderAcdEr Request (Moriani S) accontroller\_id controller\_spech broker\_epoch type [topic\_states] [Live\_leaders] TAG\_EMPTER
controller\_spech accontroller\_spech [isr] partition\_spech [replicas] [removing\_replicas] is\_new TAG\_EMPTER
partition\_index accontroller\_spech accontroller\_spech leader\_spech [isr] partition\_spech [replicas] [removing\_replicas] is\_new TAG\_EMPTER
partition\_index accontroller\_spech accontro

FIELD	DESCRIPTION
controller_id	The current controller ID.
controller_epoch	The current controller epoch.
broker_epoch	The current broker epoch.
typa	The type that indicates whether all topics are included in the request
topic_states	Each topic.
topic_name	The topic name.
topic_ld	The unique topic ID.
partition_states	The state of each partition
partition_index	The partition index:
controller_epoch	The controller epoch.
leader	The broker ID of the leader.
leader_spoch	The leader epoch.
ise	The in-sync replica IDs.
partition_spech	The current epoch for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the Leader Andler request is only used by the legacy controller, this corresponds to the abbrevious)
replicas	The replica IDs.
adding_replicas	The replica IDs that we are adding this partition to, or null if no replicas are being added.
removing_replicas	The replica IDs that we are removing this partition from, or null if no replicas are being removed.

Is_new	Whether the replica should have existed on the broker or not.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
live_leaders	The current live leaders.
broker_id	The leader's broker ID.
host_name	The leader's hostname.
port	The leader's port.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

```
Integrated field

Leader/Andier Request (Version: 6) -> controller_de controller_epoch broker_spech type [topic_states] [live_leaders] TAG_BUFFER

controller_de -> INTG

controller_geoch -> INTG

type -> INTEG

topic_states -> Long -> Lon
```

doubt up did         doubt up did up did           total good         the comb trake up on.           10%         The part to deside where all pairs are solveded the request           10%         the liquid           10%         the liquid <th></th> <th></th>		
фонцирацийнований произвольной развитений произвольной произвольной развитений произвольной произвольной произвольной произвольной развитений произволь	FIELD	DESCRIPTION
bits         The part trained without           type         Anne trained with with anne trained with with with with anne trained with with with with anne trained with with with anne trained with anne traine	controller_id	The current controller ID.
Spin         Moderate whiter the tops are included the topsque           Opcode         Control           Opcode         Control           Opcode         Control           Opcode         Control           Opcode         Control           Option         Control         Control <tr< td=""><td>controller_epoch</td><td>The current controller epoch.</td></tr<>	controller_epoch	The current controller epoch.
Specified         Specified           Specified         Specified         Specified           Specified         Specified         Specified           Specified         Specified         Specified           Specified         Specified         Specified           Specified         Specified         Specified	broker_apoch	The current broker epoch.
крудима         Моргалия           крудима         Моргалия         Моргалия           крудима         Моргалия         Моргалия           крудима <td>type</td> <td>The type that indicates whether all topics are included in the request</td>	type	The type that indicates whether all topics are included in the request
крайд         Макара Каба         Макара Каба <th< td=""><td>topic_states</td><td>Each topic.</td></th<>	topic_states	Each topic.
periodicidad         file and subpriline           periodicidad         file and subpriline           periodicidad         file and subpriline           priodicidad         file and subpriline           periodicidad         file and subpriline           particidad         file particidad         file particidad	topic_name	The topic name.
public location         Particulation           consister, specific         The control specific           table         The control specific           table<	topic, id	The unique topic ID.
deside agend         deside agend           lacker         deside agend           lacker         Deside agend           lacker         Deside agend           lacker         Deside agend           purpose         Deside agend           purpose         Deside agend         Deside agend           purpose         Deside agend         Deside agend           deside agend         Deside agend         De	partition_states	The state of each partition
Name         Dates of the based           1644 cope         The lease (seed)           1674 cope         The lease (seed)           1674 cope         The lease (seed)           1674 cope         The lease (seed) is a montoneally increasing what which incremented where very particulor days (seed) with place (seed) with seed (seed) which is incremented where very particulor days (seed) with seed (seed) which is incremented where very particulor days (seed) with seed (seed) which is incremented where very particulor days (seed) with seed (seed) which is incremented where very particulor days (seed) which	partition_index	The partition index.
보다 보고 보다 보는 보다	controller_epoch	The controller epoch.
10         The compt for the partition. The agoint is monotonally incomanted after every partition drange (liber this Laderindra' request to rily used by the lages) common of your service of the partition. The agoint is monotonally incomanted after every partition drange (liber this Laderindra' request to rily used by the lages) consistent of your service partition of the request used in partition for many files or place as being used and for supplica as being used and the local or ord.           Modern Special Speci	leader	The broker ID of the leader.
Descriptions, comparing the partition. The quoth is a monotonically increasing what which is incremented afther every partition changes (liven the Landerloder request to objust place) such partition. The quotient service which is incremented afther every partition changes (liven the Landerloder request to objust partition than your adding this partition, or all fire replicate are being aftered.           stort, partition of the view and solidy this partition, to multi free replicate are being aftered.         The replicate that we are adding this partition, to multi free replicate are being aftered.           stort, partition of the view and solidy this partition, to multi free replicate are being aftered.         The replicate that we are adding this partition, to multi free replicate as being remode.           stort, partition of the view and solid reduction of the beiner or of.         The replicate that we are adding this partition, to multi free replicate to the beiner or of.           stort, partition of the view and solid reduction of the beiner or of.         The supplication recovering free mounts before decircly of themses.           supplication of the view and solid reduction of the beiner or of.         The supplication recovering free mounts before or of.           supplication of the view and solid reduction of the beiner or of.         The supplication recovery free mounts before or of.           supplication of the view and solid reduction of the beiner or of.         The supplication recovery free mounts before or of.           supplication of the view and solid reduction of the beiner or of.         The supplication recovery free mounts before or of.           supplicat	leader_epoch	The leader epoch.
particus (val)         particus (val)           particus (val)	lar .	The in-sync replica IDs.
Addition, sprinked         The register to before use an adding this partition to, or null for omplicas are being added.           convolution         The register to before use an adding this partition to, or null for omplicas are being added.           lakes         Description         The register to before use are recover.           lakes         Description         If the partition secretarily because due for declare (2 othersis).           lapsopt_fields         The cappet fields         The Company fields           lapsopt_fields         The cappet fields         The Company fields           lapsopt_fields         The company fields	partition, spooth	
problem         The light Lost that was removing this partition from, or all for optical and being removed.           layer         Meeth the section of the board or ord.           layers fulface         The partition recovering from an undean based extict of otherwise.           layers fulface         The support fined           layers fulface         The support fined           layers fulface         The support fined           layers fulface         The support fined and seads extrict of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.           layers fulface         The support fined and seads extract of otherwise.	replicas	The replica IDs.
IX, For         Intent the topics about the votation on the bolar or of.           Ix for your yalder         I I The partition in receiving from an undean loader defecting 0 othersis.           _apped_fields         The sapped fields           _begind field         The loader field field           _begind field         The loader field field           _begind field         The loader field field           _begind field         The loader field field field           _apped_field         The loader field field field field field	adding_replicas	The replica IDs that we are adding this partition to, or null if no replicas are being added.
Independent         Infependent nordented selectif Orbenis.           Japachificia         The Lapper fields           Lapper field         The Lapper fields           Lapper field         The Lapper fields           Lope field         The Lapper fields           Lope field         The Lapper fields           Lope field         The Lapper field           Lope field         The Lapper field           Lope field         The Lapper field           Japach field         The Lapper field           Japach field         The Lapper field	removing_replicas	The replica IDs that we are removing this partition from, or null if no replicas are being removed.
ээрэг Льба         Тэх Бэрэг Кай           ээрэг Льба         Тэх Бэрэг Кай           Бара Дай         Тэх Бэрэг Кай           Бара Дай         Тэх Бэрэг Кай           Бай         Тэх Бэрэг Гай           Бай         Тэх Бэрэг Гай           Бай         Тэх Бэрэг Гай           Зэрэг Льба         Тэх Бэрэг Гай           Зэрэг Льба         Тэх Бэрэг Гай           Зэрэг Льба         Тэх Бэрэг Гай		
	IS_NEW	Whether the replica should have existed on the broker or not.
No. Josefs         The Lorder's Obserted           District         The Lorder's Obserted           Dougl, Jan         The Lorder's Obserted           Dougl, Jan         The Lorder's Obserted           Jangent, January         The Lorder Obserted		
broker_U         The lade's boder D           bod_ymap         The lade's boder D           bod_ymap         The lade's port           port         The lade's port           _tappd_field         The lade's port	leader_recovery_state	1 if the partition is recovering from an unclean leader election; 0 otherwise.
hot_une         The leader's hotman.           pot         The leader's pot.           _spged_fields         The leager field	Nader_neconsy_state	1 if the partition is recovering from an unclean leader election; 0 otherwise. The tagged fields
port	Nader_neconsy_state	1 if the partition is recovering from an unclean leader election, 0 otherwise. The tagged fields The tagged fields
Lagged_fields The Lagged fields	ladat secrety state Japped, felda Japped, felda	1 if the partition is recovering from an unclean leader election, 0 otherwise. The tagget Relate The tagget Relate The counted the leaders.
	Nadder_Incovery_state Japped_Foldes Japped_Foldes Supped_Foldes Uncluders Uncluders	1 if the partition is recovering from an unclean hadder election, 0 otherwise. The tagged fields The tagged fields The count five leaders. The faceful for broker ID.
_tagger_files The tagger fields	Nadar Jeconopy, state Jappos Fishis Jappos Fishis Inc. Japosis Fishis Inc. Japosis Andrea Inc. Japosis	1 of the partition is recovering from an unclaim header decision, 0 otherwise. The lapped finds The lapped finds The course find he landers. The course finds The course finds finds The course finds finds The finds finds finds finds finds finds finds find finds fin
	Nadar_Incovery_ttals Jappet_filds Jappet_filds Del_Nadars  Del_Nadars  Del_Nadars  Del_Nadars  Del_Nadars  Del_Nadars	1 if the partition is recovering from an unclean hader election 0 otherwise. The tagget fields The current five Isaders. The current five Isaders. The leader for toware C. The leader's point. The leader's point.

```
Japped fields

| The bagged fields | The lapsed field field | The lapsed field | The lapsed field field field | The lapsed field f
```

FELD	DESCRIPTION
controller_id	The current controller ID.
is_braft_controller	If KRaft controller id is used during migration. See KIP-866
controller_epoch	The current controller epoch.
broker_opoch	The current broker epoch.
type	The type that indicates whether all topics are included in the request
topic_states	Each topic.
topic_name	The topic name.
topic_id	The unique topic ID.
partition, states	The state of each partition
partition_index	The partition index.
controller_apoch	The controller epoch.
leader	The broker ID of the leader.
leader_epoch	The leader epoch.
isr	The in-sync replica IDs.
partition_spoch	The current epoch for the partition. The epoch is a monotonically increasing value which is incremented after every partition change. (Since the Leader Andler request is only used by the legacy controller, this corresponds to the abbrevious)
replicas	The replica IDs.
adding_usplicas	The replica IDs that we are adding this partition to, or null if no replicas are being added.
removing_septicas	The replica IDs that we are removing this partition from, or null if no replicas are being removed.
Is_new	Whether the replice should have existed on the broker or not.
leader_recovery_state	1 if the partition is recovering from an unclean leader election; 0 otherwise.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
Ive_leaders	The current live leaders.
broker_id	The leader's broker (D.
host_name	The leader's hostname.
port	The leader's port.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

## Responses

```
Landerdonfire Response (Version: 0) -> error_code (partition_errors)
error_code -> NITAS
partition_errors - tepsic_name partition_index error_code
topsic_name -> STRUME
partition_index -> NITAS
partition_index -> NITAS
```

FELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
partition_errors	Each partition in v0 to v4 message.
topic_name	The topic name.
partition_index	The partition index:
error_code	The partition error code, or 0 if there was no error.

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
partition_errors	Each partition in v0 to v4 message.
topic_name	The topic name.
partition_index	The partition index:
error_code	The partition error code, or 0 if there was no error.

LanderAndisr Response (Version: 2) -> error\_code [partition\_errors]
error\_code -> DNTA6
partition\_errors -> tepic\_name partition\_index error\_code
topic\_name -> STRING
partition\_index -> DNT32
error\_code -> DNT36

No.	
FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
partition_errors	Each partition in v0 to v4 message.
	The topic name.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.

teadorAndIsr Response (Version: ])  $\Rightarrow$  error\_code [partition\_errors] error\_code  $\Rightarrow$  NUTAE partition\_errors  $\Rightarrow$  topic\_mase partition\_index error\_code topic\_mase  $\Rightarrow$  STRIAG partition\_index  $\Rightarrow$  NUTAE error\_code  $\Rightarrow$  NUTAE error\_code  $\Rightarrow$  NUTAE error\_code  $\Rightarrow$  NUTAE

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
partition_erors	Each partition in v0 to v4 message.
topic_name	The topic name.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.

LanderActiff Response (Worsian: 4) to error\_code [partition\_errors] TAG\_RMFER
error\_code to NUTE
partition\_errors to Spic\_case partition\_index error\_code TAG\_RMFER
topic\_case to CUMPACT\_STRING
partition\_index to NUTE2
error\_code to NUTE2

FELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
partition_errors	Each partition in v0 to v4 message.
topic_name	The topic name.
partition_index	The partition index.
	The partition error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_lagged_fields	The tagged fields

LeaderAndisr Response (Wersion: 5) -> error\_code [topics] TAG\_RUFFER
error\_codo -> 10TIG
topics -> topic\_id [partition\_errors] TAG\_RUFFER
topic\_id -> Unitspect -> 10TIG\_RUFFER
partition\_errors -> partition\_index error\_code TAG\_RUFFER
partition\_index -> 10TIG2
error\_code -> 10TIG

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
topics	Each topic
topic,id	The unique topic ID
partition_errors	Each partition.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.
_maged_fields	The tagged fields
_maged_fields	The tagged fields
_tagged_fields	The tagged fields

Leaderhedir Response (Verzion: 6) » errer code [tepics] TAG\_BUFFER errer code » DTIS tepics » tepic\_id [partition\_errer] TAG\_BUFFER tepic\_id » UBD spartition\_errers » partition\_index errer\_code TAG\_BUFFER partition\_temic » TATIS

FIELD	DESCRIPTION
eror_code	The error code, or 0 if there was no error.
topics	Each topic
topic_id	The unique topic ID
partition_errors	Each partition.
partition_index	The partition index:
error_code	The partition error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

LeaderAndiar Response (Version: 7) -> error\_code [topics] TAG\_BUFFER error\_code -> LUTIG topics -> topic\_d [apartition\_errors] TAG\_BUFFER topic\_id -> LUID partition\_errors -> partition\_index error\_code TAG\_BUFFER partition\_index -> DITIG

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
topics	Each topic
topic_id	The unique topic ID
partition_errors	Each partition.
partition_index	The partition index
error_code	The partition error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Stopheplica Request (Version: 8)  $\Rightarrow$  controller\_id controller\_apach delete\_partitions [ungrouped\_partitions] controller\_god  $\Rightarrow$  DMT2 controller\_god  $\Rightarrow$  DMT2 delete\_partitions  $\Rightarrow$  BGGLEA ungrouped\_partitions  $\Rightarrow$  BGGLEA ungrouped\_partitions  $\Rightarrow$  topic\_mane\_partition\_index\_topic\_came  $\Rightarrow$  STMT2  $\Rightarrow$  DMT21  $\Rightarrow$  DMT21  $\Rightarrow$  DMT22  $\Rightarrow$  DMT22  $\Rightarrow$  DMT23  $\Rightarrow$  DMT23  $\Rightarrow$  DMT23  $\Rightarrow$  DMT24  $\Rightarrow$  DMT25  $\Rightarrow$  DMT25  $\Rightarrow$  DMT25  $\Rightarrow$  DMT25  $\Rightarrow$  DMT26  $\Rightarrow$  DMT27  $\Rightarrow$  DMT27  $\Rightarrow$  DMT27  $\Rightarrow$  DMT27  $\Rightarrow$  DMT27  $\Rightarrow$  DMT28  $\Rightarrow$  DMT28  $\Rightarrow$  DMT28  $\Rightarrow$  DMT28  $\Rightarrow$  DMT29  $\Rightarrow$  D

FIELD	DESCRIPTION
controller id	The controller id.
controller_spech	The controller epoch.
	Whether these partitions should be deleted.
ungrouped_partitions	The partitions to stop.
topic_name	The topic name.
partition_index	The partition index.

controller\_id ⇒ INT32
controller\_epoch → INT32
broker\_epoch → INT64
delete\_partition: → BOULEN
topic: → name [partition\_indexes]
name → STRIMG
partition\_indexes → INT32

FELD	DESCRIPTION
controller_id	The controller id.
controller_spech	The controller epoch.
broker_epoch	The broker epoch.
delete_partitions	Whether these partitions should be deleted.
topics	The topics to stop.
name	The topic name.
partition_indexes	The partition indexes.

StopRoplica Request (Version: 2) -> controller\_id controller\_epoch broker\_epoch delete\_partitions [topics] TAG\_BUFFER controller\_id -> INT22 controller\_sech -> INT24 broker\_epoch -> INT24 broker\_epoch -> INT24 broker\_epoch -> INT24 broker\_epoch -> INT24 controller\_epoch -> INT25 controller\_epoch -> INT2

FELD	DESCRIPTION
controller_id	The controller id.
controller_epoch	The controller epoch.
broker_apoch	The broker apoch.
delete_partitions	Whether these partitions should be deleted.
topics	The topics to stop.
name	The topic name.
partition_indexes	The partition indexes.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

StapReplica Request (Nortion: 3) -> controller\_id controller\_espech broker\_epoch [topic\_states] TMG\_BUFFER
controller\_id -> IMT2
controller\_id -> IMT2
controller\_id -> IMT2
broker\_spech -> IMT4
topic\_states -> copic\_ame [partition\_states] TMG\_BUFFER
topic\_states -> copic\_ame [partition\_tates] TMG\_BUFFER
partition\_tates -> partition\_iden leader\_epoch delete\_partition TMG\_BUFFER
partition\_tates -> IMT2
cleafer\_epoch -> IMT2
delete\_partition > IMT2
delete\_partition > IMT2
delete\_partition > IMT2

FIELD	DESCRIPTION
controller_id	The controller id.
controller_spech	The controller epoch.
broker_spoch	The broker epoch.
topic_states	Each topic.
topic_name	The topic name.
partition_states	The state of each partition
partition_index	The partition index.
leader_epoch	The leader epoch.
delete_partition	Whether this partition should be deleted.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Stophopics Request (Version: 4)  $\Rightarrow$  controller\_id is\_braft\_controller\_spech broker\_spech [topic\_states] TAG\_REFER\_controller\_spech  $\Rightarrow$  DRT22 is\_Ardf\_controller\_ $\Rightarrow$  DRT24 broker\_spech  $\Rightarrow$  DRT25 broker\_spech  $\Rightarrow$  DRT25 broker\_spech  $\Rightarrow$  DRT26 broker\_spech  $\Rightarrow$  DRT26 broker\_spech  $\Rightarrow$  DRT27 broker\_spech  $\Rightarrow$  DRT27 delete\_partition  $\Rightarrow$  DRT28 delete\_partitio

FIELD	DESCRIPTION
controller_id	The controller id.
is traff, controller	If KRaft controller id is used during migration. See KIP-866
controller_epoch	The controller epoch.
broker_apoch	The broker epoch.
topic_states	Each topic.
topic_name	The topic name.
partition_states	The state of each partition
partition_index	The partition index.
leader_epoch	The leader epoch.
delete_partition	Whether this partition should be deleted.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

## Responses:

StopRepLica Response (Version: 0) -> error\_code [partition\_errors]
error\_code -> UNIA6
partition\_error> -> topic\_name\_partition\_index error\_code
topic\_name -> STRINE
partition\_index -> UNIX2
error\_code -> UNIXA6

FIELD	DESCRIPTION
error_code	The top-level error code, or 0 if there was no top-level error.
partition_errors	The responses for each partition.
topic_name	The topic name.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no partition error.

Stephaplica Response (Version: 1) -> error\_code [partition\_errors]
error\_code -> INTIS
partition\_errors -> topic\_name partition\_index error\_code
topic\_name -> STRIMS
partition\_index -> INTIS
error\_code -> INTIS

FELD	DESCRIPTION
error_code	The top-level error code, or 0 if there was no top-level error.
partition, errors	The responses for each partition.
topic_name	The topic name.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no partition error.

Stophepics Response (Vertion: 2)  $\rightarrow$  error\_code [partition\_error] TAG\_RMFFER error\_code  $\rightarrow$  DNTIG partition\_errors  $\rightarrow$  topic\_mase partition\_index error\_code TAG\_RMFFER topic\_mase  $\rightarrow$  DNTIG partition\_index  $\rightarrow$  DNTIG error\_code  $\rightarrow$  DNTIG

PIELD	DESCRIPTION
error_code	The top-level error code, or 0 if there was no top-level error.
partition_errors	The responses for each partition.
topic_name	The topic name.
partition, index	The partition index
error_code	The partition error code, or 0 if there was no partition error.
_Inagged_fields	The tagged fields
Lagged_fields	The tagged fields

DESCRIPTION	
The top-level error code, or 0 if there was no top-level error.	
The responses for each partition.	
The topic name.	
The partition index.	
The partition error code, or 0 if there was no partition error.	
The tagged fields	
The tagged fields	

### UpdateMetadata API (Key: 6):

### Requests:

UpdateWitsdata Request (Verion: 0) -> controller\_id controller\_speck [ungrouped\_partition\_states] [live\_brokers]
controller\_id -> DHT22
controller\_speck -> DHT22
controller\_speck -> DHT22
topic\_same -> SHTML
partition\_infore -> DHT22
controller\_speck -> DHT2
con

FELD	DESCRIPTION
controller_id	The controller id.
controller_epoch	The controller epoch.
ungrouped_partition_states	In older versions of this RPC, each partition that we would like to update.
topic_name	In older versions of this RPC, the topic name.
partition, index	The partition index.
controller_spoch	The controller epoch.
leader	The ID of the broker which is the current partition leader.
leader_epoch	The leader epoch of this partition.
isr	The brokers which are in the ISR for this partition.
zk, version	The Zookeeper version.
replicas	All the replicas of this partition.
live_brokers	
id	The broker id.
v0_host	The broker hostname.
v0.port	The broker port.

Vigorium controller\_id > DHT2

topic\_nee > DHT2

controller\_id > DHT2

if > DHT2

controller id (controller)

controller id (controller)

if > DHT2

controller id (controller)

controller id (controller)

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controller\_id (controller)

if > DHT2

controller\_id (controller)

controller\_id (controller)

controller\_id (controller)

if > DHT2

controller\_id (controller)

controller\_i

FIELD	DESCRIPTION
controller, id	The controller id.
controller, spoch	The controller epoch.
ungrouped_partition_states	In older versions of this RPC, each partition that we would like to update.
topic_name	In older versions of this RPC, the topic name.
partition_index	The partition index.
controller, spoch	The controller epoch.
Neader .	The ID of the broker which is the current partition leader.
Nader_epoch	The leader epoch of this partition.
ter	The brokers which are in the ISR for this partition.
zk_version	The Zookeeper version.
replicas	All the replicas of this partition.
Ilve_brokers	
id	The broker id.
endpoints	The broker endpoints.
port	The port of this endpoint
host	The hostname of this endpoint
security_protocol	The security protocol type.

Smoothypotocol

UpdateWetabata Request (Version: 2) -> controller\_id controller\_epoch [ungrouped\_partition\_states] [live\_brokers]
controller\_id -> INT22
controller\_spech -> INT22
leader -> INT22
lir -> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT22
second--> INT22
second--> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT22
live\_broker--> INT32
live\_broker--> INT332
live\_broker--> INT332
live\_broker--> INT3344
live\_broker--> INT3444
live\_broker-->

FELD	DESCRIPTION
controller_id	The controller id.
controller_epoch	The controller epoch.
ungrouped_partition_states	In older versions of this RPC, each partition that we would like to update.
topic_name	In older versions of this RPC; the topic name.
partition_index	The partition index:
controller_epoch	The controller epoch.
Seader	The ID of the broker which is the current partition leader.
leader_epoch	The leader epoch of this partition.
isr	The brokers which are in the ISR for this partition.
zk, version	The Zookseper version.
replicas	All the replicas of this partition.
Ivo_brokers	
	L

endpoints	The broker endpoints.
port	The port of this endpoint
	The hostname of this endpoint
serunity_protocol	The security protocol type.
	The rack which this broker belongs to.

UpdateWitsdata Request (Version: 3) -> controller\_id controller\_epoch [ungrouped\_partition\_states] [live\_brokers]
controller\_id -> INT22
controller\_epoch -> INT22
inco-> INT23
inco-> INT23
inco-> INT24
inco-> INT24
inco-> INT24
inco-> INT25
inco-> INT26
inco-> INT2

FIELD	DESCRIPTION
controller_id	The controller id.
controller_spooth	The controller epoch.
ungrouped_partition_states	In older versions of this RPC, each partition that we would like to update.
topic_name	In older versions of this RPC, the topic name.
partition_index	The partition index.
controller_spoch	The controller epoch.
leader	The ID of the broker which is the current partition leader.
leader_epoch	The leader epoch of this partition.
lar	The brokers which are in the ISR for this partition.
zk_version	The Zookseper version.
replicas	All the replicas of this partition.
live_brokers	
id	The broker id.
endpoints	The broker endpoints.
port	The port of this endpoint
host	The hostname of this endpoint
Ristener	The listener name.
security_protocol	The security protocol type.
nsck	The rack which this broker belongs to.

ObjecteMetadata Request (Version: 4) -> controller\_sid controller\_epoch [ungrouped\_partition\_states] [live\_brokers]
controller\_iid -> INT22
controller\_sech -> INT23
controller\_sech -> INT34
contro

FIELD	DESCRIPTION
controller id	The controller id.
controller_spoch	The controller epoch.
ungrouped_partition_states	In older versions of this RPC, each partition that we would like to update.
topic_name	In older versions of this RPC, the topic name.
partition_index	The partition index.
controller, spoch	The controller epoch.
leader	The ID of the broker which is the current partition leader.
Neader_spech	The leader epoch of this partition.
iar	The brokers which are in the ISR for this partition.
26, version	The Zookseper version.
reglicas	All the replicas of this partition.
offline_replicas	The replicas of this partition which are offline.
Ivo_brokers	
id	The broker id.
endpoints	The broker endpoints.
port	The port of this endpoint
host	The hostname of this endpoint
Tetener .	The listener name.
security_protocol	The security protocol type.
nek	The rack which this broker belongs to.

UpdateWetsdata Request (Version: 5) -> controller\_id controller\_spech broker\_spech [topic\_states] [live\_brokers]
controller\_id -> INT22
controller\_id -> INT22
broker\_spech -> INT24
broker\_spech -> INT34
controller\_spech -> INT32
controller\_spech -> INT32
controller\_spech -> INT32
controller\_spech -> INT32
leader\_spech -> INT32
leader\_spech -> INT32
leader\_spech -> INT32
controller\_spech -> INT33
controller\_spech -> INT34
controller\_spech -> INT35
controller\_spech -> INT36
controlle

FELD	DESCRIPTION
controller_id	The controller id.
controller_spoch	The controller epoch.
broker_opoch	The broker apoch.
topic_states	In newer versions of this RPC, each topic that we would like to update.
topic_name	The topic name.
partition_states	The partition that we would like to update.
partition_index	The partition index.
controller_epoch	The controller epoch.
Neader	The ID of the broker which is the current partition leader.
leader_epoch	The leader epoch of this partition.
isr	The brokers which are in the ISR for this partition.
zk_version	The Zookseper version.
replicas	All the replicas of this partition.
offine_replicas	The replicas of this partition which are offline.
live_brokers	
id	The broker id.
andpoints	The broker endpoints.
рогт	The port of this endpoint
host	The hostname of this endpoint
listener	The listener name.
security_protocol	The security protocol type.

Note the state of the state of

FIELD	DESCRIPTION
controller_id	The controller id.
controller_spoch	The controller epoch.
broker_epoch	The broker epoch.
topic_states	In newer versions of this RPC, each topic that we would like to update.
topic_name	The topic name.
partition_states	The partition that we would like to update.
partition_index	The partition index.
controller_spoch	The controller epoch.
leader	The ID of the broker which is the current partition leader.
leader_epoch	The leader spoch of this partition.
tar	The brokers which are in the ISR for this partition.
zk_version	The Zookseper version.
replicas	All the replicas of this partition.
offline_replicas	The replicas of this partition which are offline.
Jagged_fields	The tagged fields
_lagged_fields	The tagged fields
Ilve_brokers	
ia	The broker id.
endpoints	The broker endpoints.
port	The port of this endpoint
host	The hostname of this endpoint
Ratener	The listener name.
security_protocol	The security protocol type.
Jagged_fields	The tagged fields
rack	The rack which this broker belongs to.
_lagged_fields	The tagged fields
_Tagged_fields	The tagged fields

FELD	DESCRIPTION
controller_id	The controller id.
controller_epoch	The controller epoch.
broker_epoch	The broker apoch.
topic, states	In newer versions of this RPC, each topic that we would like to update.
topic_name	The topic name.
topic_id	The topic id.
partition_states	The partition that we would like to update.
pertition_index	The partition index:
controller_apach	The controller epoch.
leader	The ID of the broker which is the current partition leader.
leader_spoch	The leader epoch of this partition.
ise	The brokers which are in the ISR for this partition.
zk_version	The Zookeeper version.
replicas	All the replicas of this partition.
offine_replicas	The replicas of this partition which are offline.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
live_brokers	
id	The broker id.
endpoints	The broker endpoints.
port	The port of this endpoint
host	The hostname of this endpoint
Estener	The listener name.
security_protocol	The security protocol type.
Jagged_fields	The tagged fields
rack	The rack which this broker belongs to.
_lagged_fields	The tagged fields
_tagged_fields	The tagged fields

Japanichian

UpdateMichalata Repust (Version: 8) -> controller\_id is\_kraft\_controller\_capech broker\_epoch [topic\_states] [live\_brokers] TAG\_BUFFER

controller\_apoch > 20727

is\_kraft\_controller -> 8006EAN

controller\_apoch > 20722

broker\_apoch > 20724

broker\_apoch > 20724

broker\_apoch > 20724

broker\_apoch > 20724

topic\_tates -> c009ACI\_STRING

topic\_amam > c009ACI\_STRING

controller\_apoch beader leader\_apoch leader leader\_apoch [isr] zk\_version [replicas] [offlice\_replicas] TAG\_BUFFER

partition\_index >> 20722

leader\_apoch >> 20722

leader\_apoch >> 20722

isr -> 20722

broker\_apoch >> 20722

brok

FELD	DESCRIPTION
controller id	The controller id.
is_lyaft_controller	If KRaft controller id is used during migration. See KIP-866
controller_spoch	The controller epoch.
broker enorth	The horizon annoth

broker_ld	The id of the broker for which controlled shutdown has been requested.
FIELD	DESCRIPTION
broker_id → INT32	

FIELD	DESCRIPTION
broker_id	The id of the broker for which controlled shundown has been requested.

ControlledShutdown Request (Version: 2) -> broker\_id broker\_epoch broker\_id -> INT32 broker\_epoch -> INT64

FIELD	DESCRIPTION
broker_id	The id of the broker for which controlled shutdown has been requested.
broker_epoch	The broker epoch.

ControlledShutdown Request (Version: 3)  $\Rightarrow$  broker\_id broker\_epoch TAG\_BUFFER broker\_id  $\Rightarrow$  INT32 broker\_epoch  $\Rightarrow$  INT64

FELD	DESCRIPTION
broker_id	The id of the broker for which controlled shuddown has been requested.
broker_epoch	The broker apoch.
_magged_fields	The tagged fields

FELD	DESCRIPTION
error_code	The top-level error code.
remaining_partitions	The partitions that the broker still leads.
topic_name	The name of the topic.
partition_index	The index of the partition.

ControlledShutdown Response (Version: 1)  $\sim$  error\_code [remaining\_partitions] error\_code  $\sim$  18716 remaining\_partitions  $\sim$  topic\_name partition\_index topic\_name  $\sim$  STRIME partition\_index  $\sim$  NTRIME partition\_index  $\sim$  NTRIME

 FELD
 DESCRIPTION

 entra\_code
 The top-level error code.

 entral\_code
 The parties on the five lovel are code.

 entral\_code
 The parties on the five lovel.

 entral\_code
 The name of the legic.

 profice\_loade
 The loade of the partico.

ControlledShutdoom Response (Version: 2) ~ error\_code [remaining\_partitions] error\_code ~ INTS 
remaining\_partitions ~ topic\_name partition\_index 
topic\_name ~ STRIME 
partition\_index ~ MIRIZ

 FELD
 DESCRIPTION

 entry\_code
 The top-level entry code.

 memointeg\_partitions
 The partitions that the broker still leads.

 topic\_partition
 The name of the topic.

 statistical leads.
 The search of the topic.

ControlledShurdown Response (Version: 3)  $\rightarrow$  error\_code [remaining partitions] TAG\_RBFFER error\_code  $\rightarrow$  NUTG ERROR\_code  $\rightarrow$  N

 FELD
 DESCRIPTION

 error coded
 The beyond error code.

 smalling partitions
 The partitions but the brigher still flads.

 begs, camer
 The camer of this type.

 sattless, bulker
 The latter of the partition.

 satgles, flads
 The latter of this partition.

 Lapper, flads
 The stopper finits

### OffsetCommit API (Key: 8):

### Requests:

OffsetCommit Request (Version: 0) -> group\_id [topics]
group\_id -> STRIME
topics -> new [cprittions]
name -> STRIME
partition: y-new y-new printing index committed offset committed partition jundex -> INTZ
committed gridex -> INTZ
committed gridex -> NATA
committed gridex -> NATA

PRED D SISCRIPTION SISCRIPTION SISCRIPTION SINCRIPTION SINCRIPTION

OffselComit Report (Vertice: ) -> group\_id generation\_id\_or\_member\_upoch member\_id (topics)
group\_id +> CTRING
generation\_id\_or\_member\_opcoch => INTX2
member\_id -> STRING
topics -> Amma\_intribus\_index\_committed\_orfset commit\_timestamp\_committed\_member\_id -> STRING
partitions -> STRING
partition\_index\_committed\_orfset commit\_timestamp\_committed\_metadata
partition\_index\_committed\_orfset
commit\_timestamp -> ITRING
commit\_timestamp -> ITRING
commit\_timestamp -> ITRING
committed\_metadata -> NRLANGE\_STRING

FELD

DESCRIPTION

The unique group identifies.

The unique group placetifies.

The unique group placetifies of the member specifi floaring the consumer protocol.

The presention of the group floaring the generic group protocol of the member specifi floaring the consumer protocol.

The topics to convent offsates for.

The topics to convent offsates for.

The topics convent offsates for.

The specifies convent offsates for.

The partition to convent offsates for.

The partition index.

The partition index.

The partition index.

The partition index.

The investing offsate to be convented.

Committed, offsatel

C

OffselCounth Request (Vertice: 2) -> group\_id generation\_id\_or\_member\_spech member\_id retention\_time\_ms [topics]
group\_id -> TRIME
generation\_id\_or\_member\_spech-so INT22
member\_id -> STRIME
retention\_time\_ms => DIFG4
topics -> name [martitions]
name -> STRIME
partition\_or\_matrition\_id=
martition\_or\_matrition\_id=
martition\_or\_matrition\_id=
martition\_or\_matrition\_id=
martition\_or\_matrition\_id=
martition\_or\_matrition\_id=
martition\_or\_matrition\_id=
martition\_or\_matrition\_id=
committed\_or\_matrition\_id=
comm

FELD

SELDIFITION

The uriginal group disenfiles

group, id

group, id. The uriginal group disenfiles

The printed or the group of using the group's quaring or thought quaring or constants.

The transported in ma to retain the offset.

Sports

Annual The transported in ma to retain the offset.

The transported in ma to retain the offset.

The transported in ma to retain the offset.

Sports

Annual The Sports to commit affects for.

Each partition to commit affects for.

The presentation these.

Committed, first but committed.

Any associated metabatis the client west to keep.

OffselComst Report (Version: 3) -> group\_id generation\_id\_or\_member\_good member\_id retention\_time\_es [topic]
group\_id -> CTRING
generation\_id\_or\_member\_spech -> INT22
member\_id -> STRING
retention\_im\_as -> DIFG4
topics -> name [partitions]
name -> STRING
partitions -> member\_spech -> MIT22
committed\_retention\_im\_as
partition\_imples -> MIT23
committed\_reten -> MIT23
com

DESCRIPTION
The unique group identifier,
The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
The member ID assigned by the group coordinator.
The time period in ms to retain the offset.
The topics to commit offsets for:
The topic name.
Each partition to commit offsets for.
The partition index.
The message offset to be committed.
Any associated metadata the client wants to keep.

OffsetComnit Request (Version: 4)  $\Rightarrow$  group\_id generation\_id\_or\_member\_apoch member\_id retention\_time\_ms [topics] group\_id  $\Rightarrow$  STRING generation\_id\_or\_member\_apoch  $\Rightarrow$  INT22 member\_apoch  $\Rightarrow$  INT84 retention\_time\_ms  $\Rightarrow$  INT84 topics  $\Rightarrow$  name [partitions]

```
partitions → partition_index committed_offset committed_metadata
partition_index → INT32
committed_offset → INT64
```

FELD	DESCRIPTION
group_id	The unique group identifier.
generation_id_or_member_epoch	The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
member_id	The member ID assigned by the group coordinator.
retention_time_ms	The time period in ms to retain the offset.
topics	The topics to commit offsets for.
name	The topic name.
partitions	Each partition to commit offsets for.
partition_index	The partition index.
committed_offset	The message offset to be committed.
committed_metadata	Any associated metadata the client wants to keep.

OffsetCommit Request (Version: 5) -> group\_id generation\_id\_or\_member\_spech member\_id [topics]
group\_id -> STRING
generation\_id\_or\_member\_spech -> INTI2
generation\_id\_or\_member\_spech -> INTI2
generation\_id\_or\_member\_spech -> INTI2
generation\_id\_or\_member\_id\_or\_memb

FELD	DESCRIPTION
group_id	The unique group identifier.
generation_id_or_member_spoch	The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
member_id	The member ID assigned by the group coordinator.
topics	The topics to commit offsets for.
name	The topic name.
partitions	Each partition to commit offsets for.
partition_index	The partition index.
committed_offset	The message offset to be committed.
committed_metadata	Any associated metadata the client wants to keep.

OffstComit Report (Vertice 6) -> group\_id generation\_id\_or\_member\_epoch member\_id [topics]
group\_id -> CNRMS
generation\_id or\_member\_spoch -> INTI2
member\_id -> TRIMS
topics -> come\_id\_or\_minus
name -> STRIMS
partitions;
name -> STRIMS
partition\_index committed\_offset committed\_leader\_epoch committed\_metadata
partition\_loader committed\_orfset
committed\_forts -> DRIAMS
committed\_forts -> DRIAMS
committed\_metadata -> RELAMS\_CRIMS

FELD	DESCRIPTION
group_ld	The unique group identifier.
generation_id_or_member_epoch	The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
member id	The member ID assigned by the group coordinator.
topics	The topics to commit offsets for.
name	The topic name.
partitions	Each partition to commit offsets for.
partition_index	The partition index.
committed_offset	The message offset to be committed.
committed_leader_spoch	The leader epoch of this partition.
committed_metadata	Any associated metadata the client wants to keep.

OffsetCommit Request (Worsion: 7)  $\infty$  group id generation\_id\_or\_member\_epoch member\_id group\_instance\_id [topics]
group\_id  $\infty$  STRIMG
generation\_id\_or\_member\_epoch  $\infty$  INT22
generation\_id\_or\_member\_epoch  $\infty$  INT32
generation\_id\_or\_member\_epoch  $\infty$  INT32
generation\_id\_or\_member\_epoch  $\infty$  INT34
generation\_id\_or\_member\_epoch  $\infty$  INT34
generation\_id\_or\_member\_epoch  $\infty$  INT34
committed\_or\_member\_epoch  $\infty$  INT32

FIELD	DESCRIPTION
group_id	The unique group identifier.
generation_id_or_member_epoch	The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
member id	The member ID assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
topics	The topics to commit offsets for.
name	The topic name.
partitions	Each partition to commit offsets for.
partition_index	The partition index.
committed_offset	The message offset to be committed.
committed_leader_epoch	The leader epoch of this partition.
committed_motadata	Any associated metadula the client wants to keep.

OffsetCount: Request (Version: 8) — proop\_id generation\_id\_or\_member\_spech member\_id\_group\_instance\_id[topics] 7AG\_BUFFER
group\_id — COMPACT\_STRING
processed id= COMPACT\_STRING
group\_instance\_id= COMPACT\_STRING
group\_instance\_id= COMPACT\_STRING
group\_instance\_id= COMPACT\_STRING
group\_instance\_id= COMPACT\_STRING
group\_instance\_id= COMPACT\_STRING
group\_instance\_id= COMPACT\_STRING
partition= noise COMPACT\_STRING
partition= partition= index committed\_offset committed\_leader\_spech committed\_metadata 7AG\_BUFFER
partition\_index = NITS2
committed\_offset= NITS2
committed\_offset= COMPACT\_NOISE\_STRING

FELD	DESCRIPTION
group, id	The unique group identifier.
generation_id_or_member_epoch	The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
member_id	The member ID assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
topics	The topics to commit offsets for.
name	The topic name.
partitions	Each partition to commit offsets for.
partition_index	The partition index.
committed_offset	The message offset to be committed.
committed_leader_epoch	The leader epoch of this partition.
committed_metadata	Any associated metadata the client wants to keep.
_taggad_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

OffsetCommit Request (Version: 9) -> group\_id generation\_id or\_member\_spech member\_id group\_instance\_id [topics] TAG\_REFFER
group\_id -> COMPACT\_STRING
generation\_id or\_member\_spech -> INTIZ

committed\_special\_id or\_member\_spech -> INTIZ

committed\_priced\_spech -> INTIZ

committed\_priced\_spech -> INTIZ

committed\_member\_spech -

FELD	DESCRIPTION
group_id	The unique group identifier.
generation_id_or_member_epoch	The generation of the group if using the generic group protocol or the member epoch if using the consumer protocol.
member id	The member ID assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
topics	The topics to commit offsets for.

Salect Bide Chrise Hale Except Oglere Except (Spense   Spense   Spense   Spense   Chrise   Spense   Sp	Print Edit WE Took Help
name	The topic name.
partitions	Each partition to commit offsets for
partition_index	The partition index.
committed_offset	The message offset to be committed.
committed_leader_epoch	The leader epoch of this partition.
committed_metadata	Any associated metadata the client wants to keep.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
Jagged_fields	The tagged fields

OffsetCommit Response (Version: 8)  $\Rightarrow$  [topics] topics  $\Rightarrow$  name [partitions] name  $\Rightarrow$  STRING partitions  $\Rightarrow$  partition  $\Rightarrow$  partition index error\_code partition\_index  $\Rightarrow$  INTIS error\_code  $\Rightarrow$  INTIS

TIELD topics name partitions partition\_index error\_code The error code, or 0 if there was no error.

OffsetCommit Response (Version: 1) -> [topics]
topics -> name [partitions]
name -> STRING
partitions -> partition index error\_code
partition\_index -> INT32
error\_code -> INT32

FIELD topics name partitions DESCRIPTION

The responses for each topic.

The topic name.

The responses for each partition in the topic. The error code, or 0 if there was no erro

OffsetCommit Response (Version: 2) -> [topics]
topics -> name [partitions]
name -> STRING
partitions -> partition\_index error\_code
partition index -> INT12
error\_code -> INT16

FIELD topics name partitions partition\_index error\_code DESCRIPTION

The responses for each topic.

The topic name.

The responses for each partition in the topic The error code, or 0 if there was no error

OffsetCommit Response (Version: 3)  $\Rightarrow$  throttle\_time\_ms [topics] throttle\_time\_ms  $\Rightarrow$  JNT52 topics  $\Rightarrow$  mass  $\Rightarrow$  STNMID partitions  $\Rightarrow$  partition\_index error\_code partition\_index  $\Rightarrow$  JNT52 error\_code  $\Rightarrow$  JNT16

FIELD throttle\_time\_ms topics name partitions partition\_index error\_code DESCRIPTION

The duration is milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. The segments for each topic.

The legic name.

The responses for each partition in the topic.

OffsetComit Response (Version: 4) --> throttle\_time\_ms [topics]
throttle\_time\_ms --> DHT2
topics -- name portitions]
name --> STRIME
partitions --> partition\_index error\_code
partition --> partition\_index error\_code
partition\_Undex --> DHT2
error\_code --> DHTB

FIELD
throttle\_time\_ms
topics
name
partitions
partition\_index
error\_code ESSCRIPTION

The duration in milliscoreds for which the request was throttled due to a quita violation, or and if the request did not violate any quita. The responses for each topic. The topic name.

The responses for each partition in the topic.

The partition index.

The error code, or 0 if there was no error.

OffsetCommit Response (Wersion: 5) → throttle\_time\_ms [topics]
throttle\_time\_ms → INTO2
topics → name [partitions]
name → STRMU
partition: → partition index error\_code
partition [ones → INTO2
error\_code → INTO

FIELD
throttle\_time\_ms
topics
name
partitions The topic name.

The responses for each partition in the topic. The partition index.

The error code, or 0 if there was no error.

OffsetComit Response (Version: 6) --> throttle\_time\_ms [topics]
throttle\_time\_ms --> DHT2
topics -- name pointions]
name --> STRIME
partitions --> partition\_index error\_code
partition --> partition\_index error\_code
partition\_Undex --> DHT2
error\_code --> DHTB

FIELD DESCRIPTION

The drustion in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. The responses for each topic. throttle\_time\_ms
topics
name
partitions
partition\_index The topic name.

The responses for each partition in the topic.

The partition index. error\_code The error code, or 0 if there was no error

OffsetCommit Response (Worsion: 7) → throttle\_time\_ms [topics]
throttle\_time\_ms → DNT32
topics → name [partitions]
name → STRUE
partition → partition\_index error\_code
partition\_index → DNT32
error\_code → DNT36

FIELD
throttle\_time\_ms
topics
name
partitions
partition\_index
error\_code DESCRIPTION

The duration in milliseconds for which the req
The responses for each topic.
The topic name.

The responses for each partition in the topic.

OffsetCommit Response (Version: 8) ⇒ throttle\_time\_ms [topics] TAG\_BUFFER throttle\_time\_ms ⇒ LMT32 topics ⇒ name [partitions] TAG\_BUFFER

partitions ⇒ partition\_index error\_code TAG\_BUFFER
partition\_index ⇒ INT32

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses for each topic.
name	The topic name.
partitions	The responses for each partition in the topic.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

OffsetCommit Response (Version: 9)  $\Rightarrow$  throttle\_time\_ms [topics] TAG\_REFER throttle\_time\_ms  $\Rightarrow$  DNT2 throttle\_time\_ms  $\Rightarrow$  DNT2 project on one [graftions] TAG\_REFER name  $\Rightarrow$  COMPAC\_STRIBE partitions of Septime  $\Rightarrow$  DNT1 partition of Septime  $\Rightarrow$  DNT2 partition\_index  $\Rightarrow$  DNT3 partition\_index  $\Rightarrow$  DNT

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses for each topic.
name	The topic name.
partitions	The responses for each partition in the topic.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_maged_fields	The tagged felds

### OffsetFetch API (Key: 9):

### Requests:

OffsetFetch Request (Version: 0) -> group\_id [topics]
group\_id -> STRING
topics -> name [partition\_indexes]
name -> STRING
partition\_indexes -> INT32

FELD	DESCRIPTION
group_id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for:

OffsetFetch Request (Version: 1) => group\_id [topics]
group\_id => STRING
topics => name [partition\_indexes]
name => STRING
partition\_indexes => INT32

FELD	DESCRIPTION
group_id	The group to fetch offsets for:
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for.

OffsetFetch Request (Version: 2)  $\Rightarrow$  group\_id [topics] group\_id  $\Rightarrow$  STRING topics  $\Rightarrow$  name [partition\_indexes] name  $\Rightarrow$  STRING partition\_indexes  $\Rightarrow$  INT32

FIELD	DESCRIPTION
group, id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for.

OffsetFetch Request (Version: 3)  $\Rightarrow$  group\_id [topics] group\_id  $\Rightarrow$  STRING topics  $\Rightarrow$  name [partition\_indexes] name  $\Rightarrow$  STRING partition\_indexes  $\Rightarrow$  INT32

FELD	DESCRIPTION
group_id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for.

OffsetFetch Request (Version: 4)  $\Rightarrow$  group\_id [topics] group\_id  $\Rightarrow$  STRING topics  $\Rightarrow$  name [partition\_indexes] name  $\Rightarrow$  STRING partition\_indexes  $\Rightarrow$  INT32

FIELD	DESCRIPTION
group_id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for.

OffsetFetch Request (Version: 5)  $\Rightarrow$  group\_id [topics] group\_id  $\Rightarrow$  STRING topics  $\Rightarrow$  name [partition\_indexes] name  $\Rightarrow$  STRING partition\_indexes  $\Rightarrow$  INT32

FIELD	DESCRIPTION
group_id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for.

OffsetFetch Request (Version: 6)  $\Rightarrow$  group\_id [topics] TAG\_BUFFER group\_id  $\Rightarrow$  COMPACT\_STRING topics  $\Rightarrow$  name [partition\_indexes] TAG\_BUFFER name  $\Rightarrow$  COMPACT\_STRING partition\_indexes  $\Rightarrow$  INT32

FIELD	DESCRIPTION
group_id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.
partition_indexes	The partition indexes we would like to fetch offsets for.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

OffsetFetch Request (Wersion: 7) ->> group\_id (topics) require\_stable TAG\_BUFFER
group\_id ->> COMPACT\_STRUM:
project -> came\_injectition\_indexes; TAG\_BUFFER
some ->> COMPACT\_STRUM:
partition\_indexes ->> NITIZpartition\_indexes ->> NITIZrequire\_stable ->> BIOLEAN

FELD	DESCRIPTION
group_id	The group to fetch offsets for.
topics	Each topic we would like to fetch offsets for, or null to fetch offsets for all topics.
name	The topic name.

throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses per topic.
name	The topic name.
partitions	The responses per partition
partition_index	The partition index.
committed_offset	The committed message offset.
committed_leader_epoch	The leader epoch.
metadata	The partition metadota.
error_code	The error code, or 0 if there was no error.
error_code	The top-level error code, or 0 if there was no error.

Offselfetch Response (Worsion: 6) — throttle\_time\_ms [topics] error\_code TAG\_REFER
throttle\_time\_ms ~ INTI2

throttle\_time\_ms ~ INTI2

cases ~ COPMCT\_STRING
partition. 9 A partition of the partition of the committed of the topics of the partition of the committed of the topics of the partition of the committed of the topics of the topic

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses per topic.
name	The topic name.
pertitions	The responses per partition
pertition_index	The partition index.
committed_offset	The committed message offset.
committed_leader_epoch	The leader epoch.
metad ata	The partition metadata.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
error_code	The top-level error code, or 0 if there was no error.
_tagged_fields	The tagged fields

OffsetFetch Response (Version: 7) -- throttle\_time\_ms [topics] error\_code TAG\_RUFFER
throttle\_time\_ms -- INTO2
topics -- mams [partition] TAG\_RUFFER
name -- COMPAC\_TORNEG
partitions -- partition\_index committed\_offset committed\_leader\_spech metadata error\_code TAG\_RUFFER
partition\_index -- INTO4
committed\_offset -- INTO4
committ

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses per topic.
name	The topic name.
partitions	The responses per partition
partition_index	The partition index:
committed_offset	The committed message offset
committed_leader_epoch	The leader epoch.
metad atta	The partition metadata.
error_code	The error code, or 0 if there was no error.
Laggod_fields	The tagged fields
Laggod_fields	The tagged fields
error_code	The top-level error code, or 0 if there was no error.
_tagged_fields	The tagged fields

Offsetetch Response (Version: B) -> throttle\_time\_ms (groups) TAG\_REFER
throttle\_time\_ms -> NATA2

server -> commonstance of trace code TAG\_REFER

topics -> name (partitions) TAG\_REFER

partition -> partition\_index committee\_offset committee\_leader\_spech metadata error\_code TAG\_REFER

partition\_index -> NATA2

committee\_leader\_spech -> NATA2

committee\_leader\_spech -> NATA2

metadata -> COMPACT\_REALER\_STRING

error\_code -> NATA5

metadata -> COMPACT\_REALER\_STRING

error\_code -> NATA5

FIELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
groups	The responses per group id.
group_id	The group ID.
topics	The responses per topic.
name	The topic name.
partitions	The responses per partition
partition_index	The partition index
committed_offset	The committed message offset.
committed_leader_epoch	The leader epoch.
metadata	The partition metadata.
error_code	The partition level error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
error_code	The group-level error code, or 0 if there was no error.
_Inagged_fields	The tagged fields
_taggad_fields	The tagged fields

FindCoordinator Request (Version: θ) -> key key -> STRING

FindCoordinator Request (Version: 1) -> key key\_type key -> STRING key\_type -> INT8

FELD	DESCRIPTION
losy	The coordinator key.
key_type	The coordinator key type. (Group, transaction, etc.)

FindCoordinator Request (Version: 2) -> key key\_type key -> STRING key\_type -> INT8

FIELD	DESCRIPTION
kay	The coordinator key.
key_type	The coordinator key type. (Group, transaction, etc.)

FindCoordinator Request (Version: 3) -> key key\_type TAG\_BUFFER key -> COMPACT\_STRING key\_type -> INTB

FELD	DESCRIPTION
key	The coordinator key.
koy_typa	The coordinator key type. (Group, transaction, etc.)
_tagged_fields	The tagged fields

Select   Bide   Option   High Except   Option Except   Option Except   Dermal   Seat   Upda   Upda	Print Edit WE
FIELD	DESCRIPTION
key_type	The coordinator key type. (Group, transaction, etc.)
coordinator_ksys	The coordinator keys.
_magged_fields	The tagged fields
Responses:	
FindCoordinator Response (Version: 0) → error_code node_id host port	
error_code ⇒ INT16	

FELD	DESCRIPTION
arror_code	The error code, or 0 if there was no error.
node_id	The node id.
host	The host name.
port	The port.

FindCoordinator Response (Version: 1)  $\Rightarrow$  throttle\_time\_se error\_code error\_message mode\_id bost port throttle\_time\_se  $\Rightarrow$  MILTS error\_code  $\Rightarrow$  MILTS error\_code  $\Rightarrow$  MILTS error\_code  $\Rightarrow$  MILTS STERING mode\_id  $\Rightarrow$  MILTS error\_code  $\Rightarrow$  MILTS STERING mode\_id  $\Rightarrow$  MILTS error\_code  $\Rightarrow$  MILTS STERING mode\_id  $\Rightarrow$  MILTS error\_code  $\Rightarrow$  MILTS error\_code

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
node_id	The node id.
host	The host name.
port	The port.

FindCoordinator Response (Version: 2)  $\Rightarrow$  throttle\_time\_ms error\_code error\_message node\_id host port throttle\_time\_ms  $\Rightarrow$  NTM2 error\_code  $\Rightarrow$  NTM16 error\_mssage  $\Rightarrow$  NULLABLE\_STRING node\_id  $\Rightarrow$  NULL

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
node_id	The node id.
host	The host name.
port	The port.

FindCoordinator Response (Version: 3)  $\Rightarrow$  throttle\_time\_ms error\_code error\_msstage mode\_id host port TAG\_RUFFER.
throttle\_time\_ms  $\Rightarrow$  INT22
error\_code  $\Rightarrow$  COPPAC\_TMILLABLE\_STRING
root\_id= $\Rightarrow$  NID22
host= $\Rightarrow$  COPPAC\_TRINLABLE\_STRING
root\_id= $\Rightarrow$  NID22
host= $\Rightarrow$  COPPAC\_TRINLABLE\_STRING
root\_id= $\Rightarrow$  NID23

FELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
node jd	The node id.
host	The host name.
port	The port.
_tagged_fields	The tagged fields

FindCoordinator Response (Version: 4)  $\infty$  throttle\_time\_ns [coordinators] TAG\_BEFFER throttle\_time\_ns  $\infty$  INT2 coordinators by mode\_id host port error\_code error\_message TAG\_BEFFER key  $\infty$  COMPACT\_STRING production once is  $\infty$  INT1\_STRING port of the second of  $\infty$  INT1\_STRING port of the second product of the second production of the second pro

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
coordinators	Each coordinator result in the response
koy	The coordinator key.
node_id	The node id.
host	The host name.
port	The port.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

# JoinGroup API (Key: 11):

Mainforms Request (Version: 0) → group\_id session\_timeout\_ms member\_id protocol.type [protocols] group\_id → STRING |
session\_timeout\_ms → STRING |
protocol.type → STRING |
mass → STRING

FELD	DESCRIPTION
group_id	The group identifier.
session_timeout_ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.
member_id	The member id assigned by the group coordinator.
protocol_type	The unique name the for class of protocols implemented by the group we want to join.
protocols	The list of protocols that the member supports.
name	The protocol name.
metadata	The protocol metadata.

Dainfroop Request (Version: 1)  $\Rightarrow$  group\_id session\_timeout\_ms rebalance\_timeout\_ms member\_id protocol\_type [protocols] group\_id  $\Rightarrow$  STRING session\_timeout\_ms  $\Rightarrow$  INTIZ rebalance\_timeout\_ms  $\Rightarrow$  INTIZ member\_id  $\Rightarrow$  STRING protocol\_type  $\Rightarrow$  STRING protocol\_type  $\Rightarrow$  STRING protocol\_type  $\Rightarrow$  STRING protocol\_type  $\Rightarrow$  STRING member\_id  $\Rightarrow$  STRING protocol\_type  $\Rightarrow$  STRING member\_id  $\Rightarrow$  STRING

FIELD	DESCRIPTION
group_id	The group identifier.
session, timeout, ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.
rebalance_timeout_ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.
member_id	The member id assigned by the group coordinator.
protocol_type	The unique name the for class of protocols implemented by the group we want to join.
protocols	The list of protocols that the member supports.
name	The protocol name.
metadata	The protocol metadata.

Painformup Request (Version: 2)  $\Rightarrow$  group\_id session\_timeout\_ms rebalance\_timeout\_ms member\_id protocol\_type [protocols] group\_id  $\Rightarrow$  STRIMG session\_timeout\_ms  $\Rightarrow$  NFIZ2 member\_timeout\_ms  $\Rightarrow$  NFIZ2 member\_timeout\_type  $\Rightarrow$  STRIMG protocol\_type  $\Rightarrow$ 

metadata -> BYTE

FIELD	DESCRIPTION
group_id	The group identifier.
session_timeout_ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.
rebalance timeout_ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.
member_id	The member id assigned by the group coordinator.
protocol.type	The unique name the for class of protocols implemented by the group we want to join.
protocots	The list of protocols that the member supports.
name	The protocol name.
metadata	The protocol metadata.

JoinGroup Request (Version: 3)  $\Rightarrow$  group\_id session\_timeout\_ms rebalance\_timeout\_ms member\_id protocol\_type [protocols] group\_id  $\Rightarrow$  STRING session\_timeout\_ms  $\Rightarrow$  NTDT2 nebalance\_timeout\_ms  $\Rightarrow$  NTDT2 nebalance\_timeout\_ms  $\Rightarrow$  NTDT0 sender\_id  $\Rightarrow$  NTDNOME protocol\_type  $\Rightarrow$  STRING protocol\_type  $\Rightarrow$  STRING sender\_id  $\Rightarrow$  NTDT0 sen

FELD	DESCRIPTION
group_id	The group identifier.
session, timeout, ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.
rebalance_timeout_ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.
member_id	The member id assigned by the group coordinator.
protocol_type	The unique name the for class of protocols implemented by the group we want to join.
protocols	The list of protocols that the member supports.
name	The protocol name.
metadata	The protocol metadata.

Dataformum Request (Vertica: 4) --> group id session\_timeout\_ms rebalance\_timeout\_ms member\_id protocol\_type [protocols]
group id --> STRING
session\_timeout\_ms --> INTIZ
rebalance\_timeout\_ms --> INTIZ
rebalance\_timeout\_ms --> INTIZ
member\_id --> STRING
protocol\_type --> STRING
protocol\_type --> STRING
protocol\_type --> STRING
metabata --> STRING
metabata --> STRING
metabata --> STRING

FELD	DESCRIPTION
group_id	The group identifier.
session_timeout_ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.
rebalance, timeout, ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.
member, id	The member id assigned by the group coordinator.
protocol_type	The unique name the for class of protocols implemented by the group we want to join.
protocols	The list of protocols that the member supports.
name	The protocol name.
metadata	The protocol metadata.

Dalaforoup Request (Version: 5) -> group\_id session\_limeout\_ms rebalance\_timeout\_ms member\_id group\_instance\_id protocolt\_type [protocolt]
session\_timeout\_ms -> INTEX
session\_timeout\_ms
set of the timeout\_ms -> INTEX
set of timeou

FIELD	DESCRIPTION
group_id	The group identifier.
session, timeout, ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.
rebalance, timeout, ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.
member_id	The member id assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
protocol_type	The unique name the for class of protocols implemented by the group we want to join.
protocols	The list of protocols that the member supports.
name	The protocol name.
metadata	The protocol metadata.

DoinGroup Request (Wriso: 6)  $\rightarrow$  group\_id session\_timeout\_ms rebalance\_timeout\_ms member\_id group\_instance\_id protocol\_type [protocols] TAG\_REFER
group\_id  $\rightarrow$  COMPACT\_STRING
session\_timeout\_m  $\rightarrow$  INT2
rebalance\_timeout\_m  $\rightarrow$  INT2
rebalance\_timeout\_m  $\rightarrow$  INT2
rebalance\_timeout\_m  $\rightarrow$  INT2
repalance\_timeout\_m  $\rightarrow$  INT3
repalance\_timeout\_

FIELD	DESCRIPTION
group_id	The group identifier.
session_timeout_ms	The coordinator considers the consumer dead if it receives no heartbeat after this timeous in milliseconds.
rebalance,timeout_ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.
member_id	The member id assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
protocol_type	The unique name the for class of protocols implemented by the group we want to join.
protocols	The list of protocols that the member supports.
name	The protocol name.
metadota	The protocol metadata.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

DESCRIPTION	
The group identifier.	
The coordinator considers the consumer dead if it receives no heartbeat after this timeout in milliseconds.	
The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.	
The member id assigned by the group coordinator.	
The unique identifier of the consumer instance provided by and user.	
The unique name the for class of protocols implemented by the group we want to join.	
The list of protocols that the member supports.	
The protocol name.	
The protocol metadata.	
The tagged fields	
The tagged fields	

Joinformup Request (Vertion: B) -> group\_id sestion\_timeout\_ms rebalance\_timeout\_ms member\_id group\_instance\_id protocol\_type [protocols] reason TMG\_EMPTER
group\_id -> COPMICT\_STRING
session\_timeout\_ms -> INTIZ
nebalance\_timeout\_ms -> INTIZ
nebalance\_timeout\_ms -> INTIZ
session\_timeout\_ms -> Session\_t

FELD	DESCRIPTION
group_id	The group identifier.
and the state of t	The state of the s

Select III Select Digital Except Digital Except Depth Served Tool (Dydo All Segre Tag Pieces (View Serve III) Dydo Select Digital Dydo All Segre Tag Pieces (View Serve III) Dydo All Segre Dydo Dydo All Segre Tag Pieces (View Serve III) Dydo All Segre Dydo Dydo All Segre Dydo Dydo All Segre Tag Pieces (View Serve III) Dydo All Segre Dydo Dydo Dydo All Segre Dydo Dydo Dydo All Segre Dydo Dydo Dydo Dydo Dydo Dydo Dydo Dydo	Both Birth Mills	
Select   Hole Content High Ecosys Ogien Roops   Emmer Service Content House Code All Stage   Tag Process View More High Style   Emission Code   Rebullance Simeout_mis	Print Edit WE Tax No. 1949  The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.	
reculamity introductions	The member is assigned by the concentration will value to each member to report winer requirement in my group.  The member is assigned by the concentration will value to each member to report winer requirement in my group.	
group_instance_id	The unique identifier of the consumer instance provided by end user.	
protocol.type	The unique name the for class of protocols implemented by the group we want to join.	
protocols	The list of protocols that the member supports.	
name	The protocol name.	
metad ata	The protocol metadata.	
_tagged_fields	The tagged fields	
reason	The reason why the member (re-)joins the group.	
_lagged_fields	The tagged felds	
Joinfromy Request (Version: 9) -or group_id session_timecout_ms rember_id group_instance_id protocolt_type [protocolts] reason TAG_MOFFER group_id >> COMPACT_STRIMG reason_id >> UNT22 realslance_timecout_ms >> UNT23 report_id >> COMPACT_STRIMG group_instance_id >> COMPACT_STRIMG protocolt_type >> COMPACT_STRIMG		
FELD	DESCRIPTION	
group_id session_timeout_ms	The group identifier.  The coordinator considers the consumer dead if it receives no heartbest after this timeout in milliseconds.	
rebalance timeout_ms	The maximum time in milliseconds that the coordinator will wait for each member to rejoin when rebalancing the group.	
member,id	The member id assigned by the group coordinator.	
group, instance, id	The unique identifier of the concurrer instance provided by end user.	
protocol_type	The unique name the for class of protocols implemented by the group we want to join.	
protocols	The list of protocols that the member supports.	
name	The protocol name.	
metad ata	The protocol metadata.	
_lagged_fields	The tagged fields	
reason	The reason why the member (re-ljoins the group.	
_tagged_fields	The tagged fields	
Responses:		
Joinfrage Response (Version: 0) error_code generation_id protocol_name leader member_id [members] error_code NUTIA generation_id= NUTIS protocol_name STRING leader STRING members_id= NUTIS		
PIELD	DESCRIPTION	
error_code	The error code, or 0 if there was no error.	
generation_id	The generation ID of the group.	
protocol_name	The group protocol selected by the coordinator.	
leader member jd	The leader of the group.	
member, id members	The member ID assigned by the group coordinator.	
member; id	The group member (D.	
metadata	The group member metadata.	
Deliferup Response (Versin: 1)		
FRLD	PLOCOSITION .	
	DESCRIPTION	
error_code	The error code, or 0 if there was no error.	
generation_id	The generation ID of the group.	

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
generation id	The generation ID of the group.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member_id	The member ID assigned by the group coordinator.
members	
member_id	The group member ID.
metadota	The group member metadata.

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
generation, Id	The generation ID of the group.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member_id	The member ID assigned by the group coordinator.
members	
member_id	The group member ID.
metadata	The group member metadata.

NinGrap Response (Wriles: 3) \$\iff \text{the Time\_ms error\_code generation\_id protocol\_mase leader member\_id [members] throttle\_time\_ms \$\iff \text{INID}\$ \$\iff \tex

FIELD
throttle\_time\_ms
error\_code
generation\_id
protocol\_name
leader
member\_id
member\_id
member\_id
member\_id DESIGNATION

The distration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. The error code, or of if the request did not violate any quota. The provision for the signal of the request of the confidence of the groups of the confidence of the group.

The leader of the group.

The member ID assigned by the group coordinator.

JainGroup Response (Worsion: 4) -> threttle\_time\_ms error\_code generation\_id protocol\_mame leader member\_id [members]
throttle\_time\_ms -> DNTS

percertain\_id -> DNTS

percertain\_id -> DNTS

percertain\_id -> DNTS

leader -> STRUM

member\_id -> STR

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
peneration if	The generation ID of the group

protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member_id	The member ID assigned by the group coordinator.
members	
member_id	The group member ID.
metadata	The group member metadata.

Joinfrom Response (Werzion: 5) at threttle\_time\_ms\_error\_code generation\_id protocol\_name leader member\_id [members]
threttle\_time\_ms and INTED
threttle\_time\_ms and INTED
special\_name of INTED
special\_name of INTED
teader and INTED
members of INTED
members and INTED
special\_name of INT

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttied due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
generation_id	The generation ID of the group.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member_id	The member ID assigned by the group coordinator.
members	
member_id	The group member ID.
group, instance, id	The unique identifier of the consumer instance provided by end user.
metadota	The group member metadata.

Joinforumg Response (Version: 6) as threttle\_time\_ms error\_code generation\_id protocol\_name toader member\_id [members] TAG\_SHFFER
throttle\_time\_ms as INTE2
persor\_toade = INTE2

FIELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_coda	The error code, or 0 if there was no error.
generation_id	The generation ID of the group.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member, id	The member ID assigned by the group coordinator.
members	
member; id	The group member ID.
group_instance_id	The unique identifier of the consumer instance provided by end user.
metadata	The group member metadata.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Joinfromy Response (Version: 7) at threttle\_time\_ms error\_code generation\_id protocol\_type protocol\_mame leader member\_id [members] TAG\_MUFFER threttle\_time\_ms ab INT32 error\_code > INT52 error\_code > INT52 error\_code > INT54 error\_code > INT54 error\_code > INT54 error\_code > INT55 error\_code > IN

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_coda	The error code, or 0 if there was no error.
generation_id	The generation ID of the group.
protocol_type	The group protocol name.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member, id	The member ID assigned by the group coordinator.
members	
member, id	The group member ID.
group_instance_id	The unique identifier of the consumer instance provided by end user.
metadata	The group member metadata.
_tagged_fields	The tagged fields
_Ingged_fields	The tagged fields

Josoforup Response (Version: 8) -- throttle\_time\_ms error\_code generation\_id protocol\_type protocol\_name leader member\_id [members] TAG\_BUFFER throttle\_time\_ms -- NTT2 error\_code -- UTIS error\_code -- UT

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
generation_id	The generation ID of the group.
protocol_type	The group protocol name.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
member, id	The member ID assigned by the group coordinator.
members	
member_id	The group member ID.
group_instance_id	The unique identifier of the consumer instance provided by end user.
metad atta	The group member metadata.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
generation, id	The generation ID of the group.
protocol_type	The group protocol name.
protocol_name	The group protocol selected by the coordinator.
leader	The leader of the group.
skip_assignment	True if the leader must skip running the assignment.
member_id	The member ID assigned by the group coordinator.

Zeptor Rigo Depter Mile Ecolot Cities Ecolot Desay Dat Rigo (1950-14) Edit State State New Rigo (1950-14) Edit State Sta	Print Edit WE
member_id	The group member ID.
group_instance_id	The unique identifier of the consumer instance provided by end user.
metadata	The group member metadata.
_tagged_fields	The tagged fields
_tagged_fields	The tagged felds
Heartbeat API (Key: 12):	

## Requests:

Heartbeat Request (Version: 8) -> group\_id generation\_id member\_id
group\_id -> STRING
generation\_id -> INT32
senserifo -> STRING

Heartbeat Request (Version: 1)  $\Rightarrow$  group\_id generation\_id member\_id group\_id  $\Rightarrow$  STRING generation\_id  $\Rightarrow$  INT32 member\_id  $\Rightarrow$  STRING

 FELD
 6550RPTON

 group, II
 The group II.

 generation, IS
 The generation of the group.

 mattler, IS
 The mentals ID.

Heartbeat Request (Version: 2)  $\Rightarrow$  group\_id generation\_id member\_id group\_id  $\Rightarrow$  STRIMG generation\_id  $\Rightarrow$  INTIZE member\_id  $\Rightarrow$  STRIMG

Neartbeat Request (Wrision: 3)  $\rightarrow$  group\_id generation\_id member\_id group\_instance\_id group is  $\rightarrow$  STRIMG generation\_id  $\rightarrow$  STRIMG generation\_id  $\rightarrow$  STRIMG group\_instance\_id  $\rightarrow$  STRIMG group\_id  $\rightarrow$  STRIMG group\_i

FELD SECRETION S

Marrbast Request (Wersion: 4)  $\Rightarrow$  group\_id generation\_id member\_id group\_instance\_id TAG\_RUFFER group\_id  $\Rightarrow$  COMPAC\_STRING generation\_id  $\Rightarrow$  RTII2 member\_id  $\Rightarrow$  COMPAC\_STRING group\_id  $\Rightarrow$  COMPAC\_STRING group\_id  $\Rightarrow$  COMPAC\_STRING group\_instance\_id  $\Rightarrow$  COMPAC\_STRING

FELD SECRETION
FREQUENT The group id.
The group id.
The generation of the group.
The member ID
The remoter ID
The region of the group.
The region of the group is the group of the group.
The region of the group is the group of the group.
The region of the group is the group of the group is the group of the group.
The region of the group is the group of the group of the group is the group of the group is the group of the group is the group of the group

## Responses:

Heartbeat Response (Version: 0) → error\_code error\_code → INT16

PELD DESCRIPTION DESCRIPTION THE WORLD OF THE WAS AS A CONTROL OF THE WAS A CONTROL OF THE WAS A CONTR

Heartbeat Response (Version: 1) -> throttle\_time\_ms error\_code throttle\_time\_ms -> INT32 error\_code -> INT16

PRLD

DESCRIPTION

Thord autation in milliseconds for which the request was thrested due to a goods violation, or zero if the request did not violate any goots.

error\_code

The error code, or 0 if there was no error.

Heartbeat Response (Version: 2) ⇒ throttle\_time\_ms error\_code throttle\_time\_ms ⇒ INT32 error\_code ⇒ INT16

FELD

DESCRIPTION

Throtile, Strike, yras

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

HOW server cools, yo if there was no error.

Heartbeat Response (Version: 3) -> throttle\_time\_ms error\_code throttle\_time\_ms -> INT32 error\_code -> INT16

FEELD

DESCRIPTION

The dustation in milliseconds for which the request was threated due to a quest indicator, or zero if the request did not violate any quota.

When a process of the contraction of the request was threated due to a quest indicator, or zero if the request did not violate any quota.

When a process of the request was threated due to a quest indicator, or zero if the request did not violate any quota.

Heartbeat Response (Version: 4)  $\Rightarrow$  throttle\_time\_ms error\_code TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  INT32 error\_code  $\Rightarrow$  INT16

PELD
DESCRIPTION
Description
The duration in millisecords for which the request was thrested due to a gosts volation, or zero if the request did not violate any quits.
entry\_code
The error code, or 0 if there was no error.
Impaged, fields
The tagget fields

# LeaveGroup API (Key: 13):

# Requests:

LeaveGroup Request (Version: 8) -> group\_id member\_id group\_id -> STRING member\_id -> STRING

 FELD
 DESCRIPTION

 group, Id
 The Dot of the group to leave.

 member, Id
 The member ID to remove fourth the group.

LeaveGroup Request (Version: 1) -> group\_id member\_id group\_id -> STRING member\_id -> STRING

 FELD
 DESCRIPTION

 group, Id
 The D of the group to leave.

 member, Id
 The member ID to service from the group.

LeaveGroup Request (Version: 2) -> group\_id member\_id group\_id -> STRING member\_id -> STRING

 FELD
 DESCRIPTION

 group, Id
 The EI of the group to laient.

 member/Jd
 The number ID to service from the group.

LeaveGroup Request (Version: 3) -> group\_id [members]
group\_id -> STRING
members -> member\_id group\_instance\_id

group instance id -> NULLABLE STRING

FELD	DESCRIPTION
group_id	The ID of the group to leave.
members	List of leaving member identifies.
member_id	The member ID to remove from the group.
group_instance_id	The group instance ID to remove from the group.

LeaveGroup Request (Version: 4) ~ group\_id [members] TAG\_BUFFER group\_id ~ COMPACT\_STRING members ~ member id group\_instance\_id TAG\_BUFFER member id ~ GOMPACT\_STRING group\_instance\_id ~ COMPACT\_MURLABLE\_STRING

FIELD	DESCRIPTION
group_id	The ID of the group to leave.
members	List of leaving member identities.
member id	The member ID to remove from the group.
group_instance_id	The group instance ID to remove from the group.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

LeaveGroup Request (Version: 5)  $\infty$  group\_id [members] TAG\_BUFFER group\_id  $\sim$  COPMACT\_STRIME.

members  $\sim$  member id group\_instance\_id reason TAG\_BUFFER member; id  $\sim$  COPMACT\_STRIME
member; id  $\sim$  COPMACT\_STRIME
group\_instance\_id  $\sim$  COPMACT\_STRIME
reason  $\sim$  COPMACT\_MALABLE\_STRIME

FIELD	DESCRIPTION
group_id	The ID of the group to leave.
members	List of leaving member identities.
member_id	The member ID to remove from the group.
group_instance_id	The group instance ID to remove from the group.
reason	The reason why the member left the group.
_Inagged_fields	The tagged fields
_tagged_fields	The tagged fields

## Responses:

LeaveGroup Response (Version: 0) => error\_code

FELD	DESCRIPTION
arror_code	The error code, or 0 if there was no error.

LeaveGroup Response (Version: 1)  $\Rightarrow$  throttle\_time\_ms error\_code throttle\_time\_ms  $\Rightarrow$  INT32 error\_code  $\Rightarrow$  INT16

FIELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.

LeaveGroup Response (Version: 2) -> throttle\_time\_ms error\_code throttle\_time\_ms -> INT32 error\_code -> INT16

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.

LeaveGroup Response (Version: 3) -> threttle\_time\_ns error\_code [neethers] throttle\_time\_ns -> 11172 error\_code -| Time time\_ns -> 11172 error\_code -| Time\_ns -> master\_id or \_= 1116 error\_code error\_code -> Time\_ns -> T

FIELD	DESCRIPTION
throttle, time, ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
arou_code	The error code, or 0 if there was no error.
members	List of leaving member responses.
member id	The member ID to remove from the croup.
group, Jerdance, Jd enryc code	The group instance ID to remove from the group.  The error code, or 0 if there was no error.

Leavedroup Response (Version: 4)  $\Rightarrow$  threttie\_time\_ms error\_code [members] TAG\_MUFFER threttie\_time\_ms  $\Rightarrow$  INT2

error\_code  $\Rightarrow$  INT3

members  $\Rightarrow$  member\_id group\_instance\_id error\_code TAG\_MUFFER member\_id  $\Rightarrow$  COMPAT\_INITAGE
group\_instance\_id  $\Rightarrow$  COMPAT\_INITAGE\_STRING
error\_code  $\Rightarrow$  NUTG

FIELD	DESCRIPTION
throttis_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
members	List of leaving member responses.
member_id	The member ID to remove from the group.
group_instance_id	The group instance ID to remove from the group.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_taggad_fields	The tagged fields

eavedroup Response (Version: 5)  $\Rightarrow$  throttle\_time\_as error\_code [members] TAG\_BUFFER throttle\_time\_se > HTM2 error\_code  $\Rightarrow$  TRTS error\_code  $\Rightarrow$  TRTS members  $\Rightarrow$  embers 1d group\_instance\_id error\_code TAG\_BUFFER members 1d  $\Rightarrow$  COMPACT\_STRIME

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
members	List of leaving member responses.
member_id	The member ID to remove from the group.
group_instance_id	The group instance ID to remove from the group.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_ttagged_fields	The tagged fields

# SyncGroup API (Key: 14

# Requests:

Syncfromp Request (Wersion: 8)  $\Rightarrow$  group\_id generation\_id member\_id [assignments]
group\_id  $\Rightarrow$  STRING
generation\_id\_b DIRT2
member\_id  $\Rightarrow$  STRING
satisfactors of STRING
satisfactors of STRING
satisfactors of STRING
satisfactors of STRING

FIELD	DESCRIPTION
group_id	The unique group identifier.
generation_id	The generation of the group.
	The member ID assigned by the group.
assignments	Each assignment.
member_id	The ID of the member to assign.
assignment	The member assignment.

FIELD group\_id generation\_id member\_id assignments member\_id DESCRIPTION

The unique group identifier.

The generation of the group.

The member ID assigned by the group.

Each assignment.

The ID of the member to assign.

SyncGroup Request (Version: 2)  $\leftrightarrow$  group\_id generation\_id member\_id [assignments] generation\_id  $\leftrightarrow$  STRING generation\_id  $\leftrightarrow$  STRING generation\_id  $\leftrightarrow$  STRING satisfaments makes\_id assignment makes\_id assignment makes\_id  $\leftrightarrow$  STRING assignment  $\leftrightarrow$  STRING satisfament  $\leftrightarrow$  STRING satisfament

FIELD group\_id generation\_id member\_id assignments member\_id DESCRIPTION

The unique group The generation of the group.
The member ID assigned by
Each assignment.
The ID of the member to ass assignment The member assignment.

SyncOrroup Request (Version: 3) → group\_id generation\_id member\_id group\_instance\_id [assignments] group\_id → STRING
generation\_id = NUTUS
member\_id → STRING
group\_instance\_id = NUTUS
member\_id → STRING
group\_instance\_id = NULLANG\_STRING
assignment → member\_id assignment
member\_id → STRING
assignment → BTRING
assignment → BTRING
assignment → BTRIS

FIELD group\_id generation\_id DESCRIPTION

The unique group identifier.

The generation of the group. member\_id
group\_instance\_id
assignments
member\_id The member ID assigned by the group.

The unique identifier of the consumer instance provided by end user.

Each assignment.

The ID of the member to assign. assignment The member assignment.

FIELD group\_id generation\_id member\_id DESCRIPTION

The unique group identifier.

The generation of the group group\_instance\_id The unique identifier of the consumer instance provided by end user. assignments
member\_id
assignment
\_tagged\_fields
\_tagged\_fields tacn assignment.
The ID of the member to assign.
The member assignment.
The tagged fields
The tagged fields

SyncGrap Request (Worsian: 5) -> group\_id generation\_id member\_id group\_instance\_id protocol\_type protocol\_name [assignments] TAG\_RUFFER
group\_id >> COMPACT\_STRING
group\_instance\_id >> COMPACT\_STRING
grotocol\_type >> COMPACT\_STRING
grotoc

FIELD
group\_id
generation\_id
member\_id
group\_instance\_id
protocol\_hype
protocol\_name
assignments
assignment
\_tagged\_fields
\_tagged\_fields The member ID assigned by the group The unique identifier of the consumer instance provided by end user The group protocol type.

The group protocol name.

Each assignment.

The ID of the member to assign.

SyncGroup Response (Version: 0) => error\_code assi error\_code => INT16 assignment => BYTES

FIELD error\_code assignment DESCRIPTION

The error code, or 0 if there wa
The member assignment.

Syncfroup Response (Version: 1)  $\Rightarrow$  throttle\_time\_ms error\_code ass throttle\_time\_ms  $\Rightarrow$  JMT32 error\_code  $\Rightarrow$  JMT45 assignment  $\Rightarrow$  BYTES

DESCRIPTION

The duration in milliseconds for which the i
The error code, or 0 if there was no error.
The member assignment. error\_code assignment

SyncGroup Response (Version: 2)  $\Rightarrow$  throttle\_time\_ms error\_code assign throttle\_time\_ms  $\Rightarrow$  DMT02 error\_code  $\Rightarrow$  DMT04 assignment  $\Rightarrow$  BYTE5

FIELD throttle\_time\_ms

SyncGroup Response (Version: 3)  $\Rightarrow$  throttle\_time\_ms error\_code assign throttle\_time\_as  $\Rightarrow$  INT12 error\_code  $\Rightarrow$  INT16 assignment  $\Rightarrow$  BVTES

FIELD throttle\_time\_ms was throttled due to a quota violation, or zero if the request did not violate any quota error\_code essignment The error code, or 0 if there was no error.
The member assignment.

SyncGroup Response (Version: 4
throttle\_time\_ms -> INT32
error\_code -> INT16
assignment -> COMPACT\_BYTES

FIELD	DESCRIPTION
throttie_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
assignment	The member assignment.
_lagged_fields	The tagged fields

SyncOroup Response (Version: 5) → throttle\_time\_ms error\_code protocol\_type protocol\_mame assignment TAG\_RUFFER
throttle\_time\_ms → INTEX
error\_code → INTEX
protocol\_type → COMPACT\_MILLABLE\_STRING
protocol\_type → COMPACT\_MILLABLE\_STRING
assignment → COMPACT\_MILLABLE\_STRING
assignment → COMPACT\_MILLABLE\_STRING

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
protocol_type	The group protocol type.
protocol_name	The group protocol name.
assignment	The member assignment.
_tagged_fields	The tagged fields

## DescribeGroups API (Key: 15):

DescribeGroups Request (Version: θ) -> [groups] groups -> STRING

	PIELD	DESCRIPTION
Ī	groups	The names of the groups to describe

DescribeGroups Request (Version: 1) -> [groups] groups -> STRING

FIELD		DESCRIPTION
groups		The names of the groups to describe

FELD	DESCRIPTION
groups	The names of the groups to describe

DescribeGroups Request (Version: 3) -> [groups] include\_authorized\_operations groups -> STRING include\_authorized\_operations -> BOOLEAN

FELD	DESCRIPTION
groups	The names of the groups to describe
include_authorized_operations	Whether to include authorized operations.

DescribeGroups Request (Version: 4) -> [groups] include\_authorized\_operations
groups -> STRING
include\_authorized\_operations -> BOOLEAN

FIELD	DESCRIPTION
groups	The names of the groups to describe
include authorized operations	Whether to include authorized operations.

DescribeGroups Request (Version: 5) -> [groups] include\_authorized\_operations TAG\_BUFFER groups -> COMPACT\_STRING include\_authorized\_operations -> BOOLEAN

DESCRIPTION

The names of the groups to describe Whether to include authorized operations.

The tagged fields

Secretary Response (Version: 8)  $\Rightarrow$  [groups]
groups  $\Rightarrow$  error (code group, id group, tata protocol\_type protocol\_data [members]
group id  $\Rightarrow$  STRING
group id  $\Rightarrow$  STRING
protocol\_data  $\Rightarrow$  STRING
protocol\_data  $\Rightarrow$  STRING
moments  $\Rightarrow$  STRING
moments  $\Rightarrow$  STRING
client\_bot  $\Rightarrow$  STRING
momber\_statatata  $\Rightarrow$  BTRIS
momber\_statatata  $\Rightarrow$  BTRIS

FELD	DESCRIPTION
ducinbe	Each described group.
error_code	The describe error, or 0 if there was no error.
group, id	The group ID string.
group_state	The group state string, or the empty string.
protocol_type	The group protocol type, or the empty string.
protocol_data	The group protocol data, or the empty string.
members	The group members.
member id	The member ID assigned by the group coordinator.
client, id	The client ID used in the member's latest join group request.
client_host	The client host.
member_metadata	The metadata corresponding to the current group protocol in use.
member_assignment	The current assignment provided by the group leader:

Describedroups Response (Version: 1) on throttle\_time\_ms [groups]
throttle\_time\_ms on INT22
groups on error\_code group\_id group\_itate protocol\_type protocol\_data [Rembers]
error\_code on INTIG
group\_id on STRUME
protocol\_type on STRUME
protocol\_data on STRUME
protocol\_data on STRUME
protocol\_data on STRUME
closel\_id on STRUME
member\_id on STRUME
closel\_id on STRUME

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
groups	Each described group.
error_code	The describe error, or 0 if there was no error.
group, ld	The group ID string.
group_state	The group state string, or the empty string.
protocol_type	The group protocol type, or the empty string.
protocol_data	The group protocol data, or the empty string.
members	The group members.
member, id	The member ID assigned by the group coordinator.
client_id	The client ID used in the member's latest join group request.
dient host	The client host.
member, metadata	The metadata corresponding to the current group protocol in use.
member, assignment	The current assignment provided by the group leader:

Describedroups Response (Wrisin: 2) -- throttle\_time\_Ms [groups]
throttle\_time\_Ms -- INT22
groups -- error\_code\_group\_ld group\_time protect] type protect[\_data [members]
group\_ld \_\_ INTENT
group\_ld \_\_ IN

FELD

SECONSPITON

THE ADMINISTRATION

THE ADMINISTRATION

THE ADMINISTRATION

THE ADMINISTRATION CHIEF TREQUEST WAS TO PROVIDE A sequent did not violate any quota.

Each described group.

The Adescribed error, of If the was an one one.

The group Distring

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The group placed being

The group placed being

The group placed any of the empty string.

The group placed any of the empty string.

The group postered date, or the empty string.

The group placed any of the empty string.

The group postered date of the empty string.

The group postered date of the empty string.

The group postered date of the empty string.

The group postered date.

The empty of suspice of the empty string.

The empty of suspice being to group coordinates.

The empty of suspice being to group proposed.

Identify the empty of suspice being the control group proposed.

The dient hour.

The electric found.

Describeforage Response (Worsion: 3) -> throttle time as [groups]
throttle time as >> JNT22
groups -> error code group is group\_time protocol\_type protocol\_data [members] authorized\_operations
error\_code >> STRING
group id -> STRING
group id -> STRING
protocol\_type -> STRING
protocol\_type -> STRING
protocol\_type -> STRING
protocol\_type -> STRING
content -> member\_id citent\_id citent\_id citent\_thout member\_setadata member\_assignment
number\_id -> STRING
citent\_id -> STRING
citent\_id

DESCRIPTION
The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
Each described group.
The describe error, or 0 if there was no error.
The group ID string.
The group state string, or the empty string.
The group protocol type, or the empty string.
The group protocol data, or the empty string.
The group members.
The member ID assigned by the group coordinator.
The client ID used in the member's latest join group request.
The client host.
The metadata corresponding to the current group protocol in use.
The current assignment provided by the group leader
32-bit bitfield to represent authorized operations for this group.

Describerous Response (Version: 4) as thrattle\_time\_mms [groups]
throttle\_time\_ms as as NTT2
groups as error\_code group\_id\_group\_state protocol\_type protocol\_data [members] authorized\_operations
error\_code as NTTAGE
group\_id as STRIMG
group\_time as STRIMG
protocol\_type as STRIMG
color\_id as STRIMG
client\_id a

FELD	DESCRIPTION
throttie_time_ms	The duration in milliseconds for which the request was throttied due to a quota violation, or zero if the request did not violate any quota.
groups	Each described group.
error_code	The describe error, or 0 if there was no error.
group_ld	The group ID string.
group_state	The group state string, or the empty string.
protocol_type	The group protocol type, or the empty string.
protocol_data	The group protocol data, or the empty string.
members	The group mambers.
member id	The member ID assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
client_id	The client ID used in the member's latest join group request.
client_host	The client host.
member_metadata	The metadata corresponding to the current group protocol in use.
member, assignment	The current assignment provided by the group leader.
authorized_operations	32-bit bitfield to represent authorized operations for this group.

Describedroups Response (Version: 5) \$\ifterset\$ trime, as [groups] TAG\_ROFFER

throttle\_time\_as \$\iftier \text{MINIZ}
groups \$\iftier \text{MINIZ}\$ group\_state protocal\_time\_flee

group\_id \$\iftier \text{CONVEX\_STRUE}

group\_id \$\iftier \text{CONVEX\_STRUE}

group\_id \$\iftier \text{CONVEX\_STRUE}

protocal\_data \$\iftier \text{CONVEX\_STRUE}

group\_instance\_id \$\iftier \text{CONVEX\_STRUE}

close\_id \$\iftier \text{CONVEX\_STRUE}

close\_id \$\iftier \text{CONVEX\_STRUE}

close\_id \$\iftier \text{CONVEX\_STRUE}

close\_instance\_id \$\ift

PELD	DESCRIPTION
throttle_tme_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
groups	Each described group.
error_code	The describe error, or 0 if there was no error.
group.Id	The group ID string.
group_state	The group state string, or the empty string.
protocol_type	The group protocol type, or the empty string.
protocol_data	The group protocol data, or the empty string.
members	The group mambers.
member_id	The member ID assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
client_id	The client ID used in the member's latest join group request.
dient host	The client host.
member_metadata	The metadata corresponding to the current group protocol in use.
member_assignment	The current assignment provided by the group leader.
_tagged_fields	The tagged fields
authorized_operations	32-bit biffield to represent authorized operations for this group.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

# ListGroups API (Key: 16)

EIEL I

# Requests:

ListGroups Request (Version: 2) =>

ListGrapps Request (Nersion: 8) →

ListGroups Request (Version: 1) ->	
FIELD	DESCRIPTION

Select   High   Spring   High Except   Option Except   Spring   Sp	Print Edit WE Took Map	
FIELD	DESCRIPTION	
ListGroups Request (Version: 3) $\Rightarrow$ TAG_BUFFER		
FELD	DESCRIPTION	
_tagged_fields	The tagged fields	
ListGroups Request (Version: 4) $\rightarrow$ [states_filter] TAG_RUFFER states_filter $\rightarrow$ COMPACT_STRING		
FELD	DESCRIPTION	
states_filter	The states of the groups we want to list. If empty all groups are returned with their state.	
_tagged_fields	The tagged fields	
Reported		
ListGroups Response (Verzion: 8) error_codo (groups) error_codo DNTA error_codo		
FELD	DESCRIPTION	
error_code	The error code, or 0 if there was no error.	
8.cofa	Each group in the response.	
group_id	The group ID.	
protocol_type	The group protocol type.	

ListGroups Response (Norsion: 1) \$\iftheta\$ throuting lime\_ms error\_code (groups) throuting lime\_ms \$\iftheta\$ lime\_ms \$\iftheta\$ lime\_ms for support of the lime of the lime

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#Months\_stea\_pas

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#Months

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#Month DESCRIPTION

The duration in milliseconds for which the trace of trace o The group ID.

The group protocol type.

DESCRIPTION

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. The error code, or 0 if there was no error.

Each group in the response.

The group ID. The group protocol type

ListErmaps Response (Version: 3) — throttle\_time\_ms error\_code [groups] TAG\_REFER throttle\_time\_ms = NUT3; throttle\_time\_ms error\_code = NUT3; error\_code = NUT14; err

FIELD
throttle\_time\_ms
error\_code
groups
group\_id
protocol\_type
\_tagged\_fields
\_tagged\_fields DESCRIPTION
The duration in milliseconds for which the
The error code, or 0 if there was no error.
Each group in the response.
The group ID.
The group protocol type.
The tagged fields
The tagged fields

ListGroups Response (Wersion: 4) -> thruttle\_time\_ss\_error\_code [groups] TAG\_REFER thortit\_time\_ss -> 10722 error\_code -> MEDITED (1) per group\_time TAG\_REFER group\_segroup\_ide production\_type group\_time TAG\_REFER group\_time -> COMPACT\_STRING group\_time -> COMPACT\_STRING

FIELD
throttle\_time\_ms
error\_code
groups
group\_id
protocol\_type
group\_state
\_tagged\_fields
\_tagged\_fields CESCORPTION

The duration in millisconds for which the request was firstfield due to a quota violation, or zero if the request did not violate any quota. The error colon, or of the request did not violate any quota. Each group in the errorsea.

The group D.

The group proceed figure.

The group particular instea.

The taggord fields.

The taggord fields.

# Requests:

SaslHandshake Request (Version: θ) => mechanism mechanism => STRING

FIELD mechanism DESCRIPTION

The SASL mechanism chosen by the client.

SaslHandshake Request (Version: 1) => mechanism mechanism => STRING

FIELD mechanism

SastHandshake Response (Version: 0) -> error\_code [mechanisms]
error\_code -> INT16
mechanisms -> STRING

FIELD error\_code mechanisms DESCRIPTION

The error code, or 0 if there was no error.

The mechanisms enabled in the server.

SastHandshake Response (Version: 1) -> error\_code [mechanisms]
error\_code -> INT16
mechanisms -> STRING

FELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
mechanisms	The mechanisms enabled in the server.

# ApiVersions API (Key: 18):

ApiWorison Request (Version: 0) $\Rightarrow$	
FELD 65569710H	
AplVersions Request (Version: 1) →	
FELD GEOGRAPHON	

FIELD DESCRIPTION

Applyrsions Request (Version: 3)  $\Rightarrow$  client\_software\_name client\_software\_version TAG\_RUFFER client\_software\_version  $\Rightarrow$  COMPACT\_STRING client\_software\_version  $\Rightarrow$  COMPACT\_STRING

FELD	DESCRIPTION
dient software_name	The name of the client.
client_software_version	The version of the client.
_taggad_fields	The tagged fields

Aciversions Response (Vertion: 8)  $\infty$  error\_code [api\_keys] error\_code  $\infty$  MTME api\_keys  $\infty$  api\_keys and vertion max\_version api\_keys  $\infty$  MTME min\_version  $\infty$  MTME mx\_version  $\infty$  MTME

FIELD	DESCRIPTION
error_code	The top-level error code.
api, lays	The APIs supported by the broker.
api.lay	The API index.
min_version	The minimum supported version, inclusive.
max version	The maximum supported version, inclusive.

ApiVersions Response (Version: 1) -> error\_code [api\_keys] throttle\_time\_ms error\_code -> DMTME mpl\_keys -> DMTME msl\_version -> DMTME msl\_version -> DMTME throttle\_time\_msl\_version -> DMTME

FELD	DESCRIPTION
error_code	The top-level error code.
apilinys	The APIs supported by the broker.
apiliny	The API index.
min_version	The minimum supported version, inclusive.
max_version	The maximum supported version, inclusive.
throttle_sime_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

ApiVersions Response (Version: 2) -> error\_code [api\_keys] throttle\_time\_ms error\_code -> DUTA6 mpl\_keys -> myl\_keys -= myl\_ke

FELD	DESCRIPTION
error_code	The top-level error code.
apiLkoya	The APIs supported by the broker.
apiLkey	The API index.
min_version	The minimum supported version, inclusive.
max_version	The maximum supported version, inclusive.
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

ApiVersions Response (Nersion: 3)  $\Rightarrow$  error code [api, Mays] throttle\_time\_ns TAG\_EMPTER error\_code  $\Rightarrow$  DETES api\_Mays  $\Rightarrow$  api\_May and\_mays and response TAG\_EMPTER api\_May  $\Rightarrow$  DETES and\_mays around  $\Rightarrow$  DETES and\_mays around  $\Rightarrow$  DETES throttle\_time\_ns\_ $\Rightarrow$  DETES

FELD	DESCRIPTION
error_code	The top-level error code.
api.loys	The APis supported by the broker.
api_key	The API index.
min_version	The minimum supported version, inclusive.
max_version	The maximum supported version, inclusive.
_tagged_fields	The tagged fields
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
_tagged_fields	The tagged fields

# CreateTopics API (Key: 19):

CreateTopics Request (Version: 0) -> [topics] timeout ms
topics -> name mar partition: replication\_factor [assignments] [confige]
man partitions -> DHT32
replication\_factor -> DHT5
sasignments -> partition\_index [brake\_ids]
partition\_index -> DHT32
braker\_ids -> DHT34
braker\_ids -> DHT35
braker\_ids -> DHT35
braker\_ids -> DHT35
braker\_ids -> DHT36
braker\_ids -> DHT36
braker\_ids -> DHT36
braker\_ids -> DHT36
braker\_ids -> DHT37
braker\_ids -> DHT

PIELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num, partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
replication_factor	The number of replicas to create for each partition in the topic, or 1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
broker_ids	The brokers to place the partition on.
configs	The custom topic configurations to set.
name	The configuration name.
value	The configuration value.
timeout_ms	How long to wait in milliseconds before timing out the request.

CrastoTopics Request (Version: 1) -> [topics] timeout ms validate\_only topics -> name mms partitions replication\_factor [assignments] (configs) mass -> STRUM; msm partitions -> DHT20 -- topicston\_factor -> DHT20 -- topi

FIELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num_partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
replication factor	The number of replicas to create for each partition in the topic, or -1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
broker_ids	The brokers to place the partition on.
configs	The custom topic configurations to set.
name	The configuration name.
value	The configuration value.
timeout, ms	How long to wait in milliseconds before timing out the request.
validate_only	If true, check that the topics can be created as specified, but don't create anything.

topics - name mm.partitions replication\_factor [assignments] [configs]
name -> THING
mm.partitions -> INT22
mm.partition\_factor -> INT22
mm.partition\_factor -> INT22
mm.partition\_factor -> INT22
configs -> name value
name -> THING
value -> MMLAMIL\_SITES
timeout\_ms -> INT22
validate\_only -> MOLEAN

PIELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num_partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
replication_factor	The number of replicas to create for each partition in the topic, or -1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
broker_ids	The brokers to place the partition on.
configs	The custom topic configurations to set:
name	The configuration name.
value	The configuration value.
timeout_ms	How long to wait in milliseconds before timing out the request.
validate_only	If true, check that the topics can be created as specified, but don't create anything.

CreateTopic: Request (Version: 3)  $\Rightarrow$  [topics] timeout as validate only topics  $\Rightarrow$  name magaritimos replication\_factor [assignments] [configs] name  $\Rightarrow$  STRIM; name partitions  $\Rightarrow$  LNT22 configuration  $\Rightarrow$  LNT24 configuration  $\Rightarrow$  LNT25 configuration  $\Rightarrow$  LNT26 configuration  $\Rightarrow$  LNT27 configuration  $\Rightarrow$  LNT28 configuration  $\Rightarrow$  LNT28 configuration  $\Rightarrow$  LNT28 configuration  $\Rightarrow$  LNT28 configuration  $\Rightarrow$  LNT29 configuration  $\Rightarrow$  LNT20 configuration

FIELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num_partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
replication_factor	The number of replicas to create for each partition in the topic, or -1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
broker_ids	The brokers to place the partition on.
configs	The custom topic configurations to set.
name	The configuration name.
value	The configuration value.
timeout_ms	How long to wait in milliseconds before timing out the request.
validate_only	If true, check that the topics can be created as specified, but don't create anything.

Crostropic Reposit (Version: 4) >> (topic) timeset as validate only topics or mass runs partitions replication\_factor [assignments] [confips] name >> STRIUS |
name >> STRIUS |
name >> THING |
name >> THING

FELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num, partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
replication_factor	The number of replicas to create for each partition in the topic, or 1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
broker_ids	The brokers to place the partition on.
configs	The custom topic configurations to set.
name	The configuration name.
value	The configuration value.
timeout_ms	How long to wait in milliseconds before timing out the request.
validate_only	If true, check that the topics can be created as specified, but don't create anything.

CreateTopics Request (Version: 3) == [topics] timenot.ms validate only TMG\_EMPTER topics == name magnetitions replication\_factor [assignments] [configs] TMG\_EMPTER name == COMPTS\_STRING == NAME == N

FIELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num_partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
reglication_factor	The number of replices to create for each partition in the topic, or -1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
troker_tds	The brokers to place the partition on.
_lagged_fields	The tagged fields
configs	The custom topic configurations to set.
name	The configuration name.
value	The configuration value.
_lagged_fields	The tagged fields
_lagged_fields	The tagged fields
timeout_ms	How long to wait in milliseconds before timing out the request.
validate_only	If true, check that the topics can be created as specified, but don't create anything.
_lagged_fields	The tagged fields

Constitution Request (Nortice: 6) as (topics) timent, as validate only TAG\_MUPPER topics > mass and partitions replication factor [assignment] [configs] TAG\_MUPPER name > COMPACT\_STRING |

name > COMPACT\_STRING |

replication\_factor > NUTIO |

re

FIELD	DESCRIPTION
topics	The topics to create.
name	The topic name.
num_partitions	The number of partitions to create in the topic, or -1 if we are either specifying a manual partition assignment or using the default partitions.
replication_factor	The number of replices to create for each partition in the topic, or -1 if we are either specifying a manual partition assignment or using the default replication factor.
assignments	The manual partition assignment, or the empty array if we are using automatic assignment.
partition_index	The partition index.
broker_ids	The brokers to place the partition on.
Jagged fields	The tagged fields

Print Edit WE configurations to set. Tgols Help The custom topic configuration name.
The configuration value.
The tagged fields \_tagged\_fields timeout\_ms validate\_only The tagged fields

How long to wait in milliseconds before timing out the request.

If true, check that the topics can be created as specified, but don't \_tagged\_fields Creating Report (Wrise: ) - (topics) timend as validate only TAG SEPTER topics - name one partitions replication factor (assignments) [contign] TAG SEPTER one partitions on SEPTER one partitions - DETECT on SEPTER one partition on SEPTER ON SEPTE FELD topics
name communications assignments partitions index printer, index partition, inde The topic name. The number of partitions to create in the topic, or 1.8 we are either specifying a manual partition assignment or using the default partitions.

The number of resplicate to create for each partition in the topic, or 3.6 we are either specifying a manual partition assignment or using the default replication factor.

The number of replicates create for each partition in the topic, or 3.6 we are either specifying a manual partition assignment or using the default replication factor.

The number of partition partition observed in the mental partition assignment. The brokers to place the partition on The tagged fields

The custom topic configurations to The configuration name. The configuration value.
The tagged fields
The tagged fields
How long to wait in milliseconds before timing out the request. If true, check that the topics can be created as specified, but don't create anything. CreateTopics Response (Version: 0) -> [topics]
topics -> name error\_code
name -> STRIMG
error\_code -> INT16 FIELD The topic name. The error code, or 0 if there was no error CreateTopics Response (Version: 1) -> [topics]
topics -> name error\_code error\_message
name -> STRING
error\_code -> INTIG
error\_message -> NULLABLE\_STRING FIELD topics name DESCRIPTION

Results for each topic we tried to create.

The topic name.

The error code, or 0 if there was no error error\_message The error message, or null if there was no error FIELD throttle\_time\_ms topics name error\_code error\_message The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. Results for each topic we tried to create The error message, or null if there was no error CreateTopics Response (Version: 3) ⇒ throttle\_time\_ms [topics]
throttle\_time\_ms → NUT2
topics → name error\_code error\_message
name → STRIMG
error\_code = NUT6
error\_code = NUT6
error\_nessage → NULARE\_STRING FIELD throttle\_time\_ms topics The topic name.
The error code, or 0 if there was no error.
The error message, or null if there was no error. CreateTopics Response (Version: 4) -> throttle\_time\_ms [topics]
throttle\_time\_ms -> INITS;
topics -> base error\_code error\_message
name -> STRING
error\_code -> INITS
error\_code -> NOLLARE\_STRING FIELD throttle\_time\_ms topics name The duration in milliseconds for Results for each topic we tried was throttled due to a quota violation, or zero if the request did not violate any quota The error code, or 0 if there was no error The error message, or null if there was no error CreateTopics Response (Version: 5) -> throttle\_time\_ms [topics] TAG\_ROFER
throttle\_time\_ms -> DNT22
topics -> name error\_code error\_escape num\_partitions replication\_factor [configs] TAG\_ROFER
error\_endes -> COMPACT\_STRING
error\_code -> DNT16
error\_code -> DNT16
error\_code -> DNT16
error\_endes -> COMPACT\_STRING
error\_code -> DNT6
configs -> name value read enly config\_source is\_sensitive TAG\_ROFER
name -> COMPACT\_STRING
read\_enly -> BOUGEAN
read\_enly -> BOUGEAN
is\_sensitive -> DNT6
config\_source -> DNT6
read\_enly -> BOUGEAN

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Results for each topic we tried to create.
name	The topic name.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
num_partitions	Number of partitions of the topic.
replication_factor	Replication factor of the topic.
configs	Configuration of the topic.
name	The configuration name.
value	The configuration value.
read_only	True if the configuration is read only.
config. source	The configuration source.
is_censitive	True if this configuration is sensitive.
taosed fields	The tagged fields

Select | Ede | Quies | Hylle Eucops | Ogles Eucops | Epress | Sent | Elpido | Utgdo All | Sage | Tag Places | View More | Web Sayle | Epress | Com-Print Edit WE Tgols Help CreateTopics Response (Version: 6)  $\Rightarrow$  throttle\_time\_Ms [topics] TAG\_MBFFER
throttle\_time\_Ms  $\Rightarrow$  DNT22
topics  $\Rightarrow$  name orrow\_code error\_message num\_partitions replication\_factor [configs] TAG\_MBFFER
arms  $\Rightarrow$  COMPAT\_STRIBLE
tror\_message  $\Rightarrow$  COMPAT\_MALLANE\_STRING
num\_partitions  $\Rightarrow$  DNT22
replication\_factor  $\Rightarrow$  DNT42
replication\_factor  $\Rightarrow$  DNT46
configs  $\Rightarrow$  name value read only config\_source is\_sensitive TAG\_MBFFER
name  $\Rightarrow$  COMPACT\_STRIBLE
read\_only  $\Rightarrow$  DOULEAN
triple\_configs\_topic\_Mallane\_STRING
read\_only  $\Rightarrow$  DOULEAN
is\_sensitive  $\Rightarrow$  DOULEAN FELD three\_ms topics manne error\_code error\_message mun\_partitions replication factor configs name value topics. A second topic name value topics top DESCRIPTION

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. Results for each topic we tried to create. The error message, or null if there was no error. Number of partitions of the topic. Replication factor of the topic.

Configuration of the topic.

The configuration name. The configuration value. True if the configuration is read-only.

The configuration source.

True if this configuration is sensitive. The tagged fields
The tagged fields Transfejica Response (Morsian: 7) -> threstie\_time\_ns [topics] TAG\_RUFFER
throttle\_time\_ns -> INTIZ

throttle\_time\_ns -> INTIZ

topics -> near topic\_id arrar code error\_message num\_partitions replication\_factor [configs] TAG\_RUFFER

name -> COMPACT\_STRING

ror\_code >> INTIZ

error\_code >> INTIZ

error\_code >> INTIZ

error\_message -> COMPACT\_NOLIABLE\_STRING

num\_partitions >> INTIZ

configs >> name value read\_enly config\_tource is\_messitive TAG\_RUFFER

value >> COMPACT\_NOLIABLE\_STRING

read\_enly >> SOULEAN

topic\_id= TAG\_RUFFER

is\_sensitive >> BOOLEAN

is\_sensitive >> BOOLEAN FIELD
throttle\_time\_ms
topics
name
topic\_id
error\_code
error\_message
num\_partitions The topic name. The error message, or null if there was no error num\_partitions
replication\_factor
configs
name
value
read\_only
config\_source
is\_sensitive
\_tagged\_fields
\_tagged\_fields Replication factor of the topic.

Configuration of the topic.

The configuration name. The configuration value.

True if the configuration is read-only.

The configuration source.

True if this configuration is sensitive. The tagged fields DeleteTopics API (Key: 20): Requests: DeleteTopics Request (Version: 0)  $\Rightarrow$  [topic\_names] timeout\_ms topic\_names  $\Rightarrow$  STRING timeout\_ms  $\Rightarrow$  INT32 DESCRIPTION

The names of the topics to delete timeout\_ms DeleteTopics Request (Version: 1) -> [topic\_names] timeout\_ms topic\_names -> STRING timeout\_ms -> INT32 FIELD DeleteTopics Request (Version: 2) -> [topic\_names] timeout\_ms topic\_names -> STRING timeout\_ms -> INT32 FIELD DESCRIPTION

The names of the topics to delete

The length of time in milliseconds to wait for the deletions to complete.

DESCRIPTION

The names of the topics to delete

The length of time in milliseconds to

DeleteTopics Request (Version: 4) -> [topic\_names] timeout\_ms TAG\_BUFFER topic\_names -> COMPACT\_STRING timeout\_ms -> INT32

FIELD topic\_names DESCRIPTION

The names of the topics to delete

The length of time in milliseconds to wall for the deletions to complete. \_tagged\_fields The tagged fields

DeleteTopics Request (Version: 5) -> [topic\_names] timeout\_ms TAG\_BUFFER topic\_names -> COMPACT\_STRING timeout\_ms -> INT32

DESCRIPTION

The names of the topics to delete

The length of time in milliseconds to wait for the deletions to complete. FIELD

DeleteTopics Request (Version: 6)  $\Rightarrow$  [topics] timeout\_ms TAG\_BUFFER topics  $\Rightarrow$  name topic\_id TAG\_BUFFER name  $\Rightarrow$  COMPACT\_MULLBARE\_STRING topic\_id  $\Rightarrow$  UNULLBARE\_STRING topic\_id  $\Rightarrow$  NIT32

FELD	DESCRIPTION
topics	The name or topic ID of the topic
name	The topic name
topic_ld	The unique topic ID

[piec | gale Cycle (sign Court Ogine Court (press) (press) (piec) (Spalin) (Spalin) (Spalin) (Spalin) (New glars) (piec Spie (pieces) (pie Print Edit WE Tools Help

DeleteTopics Response (Version: 0) -> [responses -> name error\_code name -> STRING error\_code -> INT16

FIELD The topic name The deletion error or 0 if the deletion succeeded

DeleteTopics Response (Version: 1)  $\Rightarrow$  throttle\_time\_ms [responses] throttle\_time\_ms  $\Rightarrow$  INVI2 responses  $\Rightarrow$  name error\_code name  $\Rightarrow$  STRIMG error\_code  $\Rightarrow$  INVIG

FIELD throttle\_time\_ms responses name DESCRIPTION

The duration in milliseconds for which the requ
The results for each topic we tried to delete. error\_code The deletion error, or 0 if the deletion succeeded.

DeleteTogacs Response (Writion: 2)  $\Rightarrow$  throttle\_time\_ms [responses] throttle\_time\_ms  $\Rightarrow$  NTM2 responses  $\Rightarrow$  mase error\_code name  $\Rightarrow$  NTME error\_code  $\Rightarrow$  NTME

FIELD throttle\_time\_ms DESCRIPTION

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. The results for each topic we tried to delete. error\_code The deletion error, or 0 if the deletion succeeded.

DeleteTopics Response (Version: 3) → throttle\_time\_ms [respon throttle\_time\_ms → INT32 responses → name error\_code name → STRIME error\_code → INT16

FIELD throttle\_time\_ms responses The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. The results for each topic we tried to delete. name error\_code The topic name

The deletion error, or 0 if the deletion succeeded.

DelateTopics Response (Version: 4)  $\Rightarrow$  throttle\_time\_ms [responses] TAG\_MUFFER throttle\_time\_ms  $\Rightarrow$  INT32 responses  $\Rightarrow$  name error\_code TAG\_MUFFER name  $\Rightarrow$  COMPAT\_CENEG error\_code  $\Rightarrow$  INT16

FIELD throttle\_sime\_ms responses name error\_code \_\_tagged\_fields \_\_tagged\_fields ESCREPTION

The duration in milliseconds for which the request was throstled due to a quota violation, or zero of the request did not violate any quota. The results for each topic was tried to delate. The topic name
The deletion error or 0 if the deletion succeeded.
The tagged fields
The tagged fields

DeletaTopics Responses (Version: 5) -> throttle\_line\_ms [responses] TAG\_BUFFER
thottle\_line\_ms -> INIT2
responses -> hand error\_code error\_mssage TAG\_BUFFER
name -> COPMCT\_STRIBE
error\_code -> COPMCT\_STRIBE
error\_code -> COPMCT\_STRIBE
error\_mssage -> COPMCT\_MSLAME\_STRIME

FIELD throttle\_time\_ms DESCRIPTION

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota responses
name
error\_code
error\_message
\_tagged\_fields The results for each topic we tried to delete. The topic name

The deletion error, or 0 if the deletion succeeded.

The error message, or null if there was no error.

The tagged fields \_tagged\_fields

DeleteTopics Response (Version: 6)  $\Rightarrow$  throttle\_time\_ms [responses] TMG\_BUFFER
throttle\_time\_ms  $\Rightarrow$  INTIZE
throttle\_time\_ms  $\Rightarrow$  INTIZE
responses  $\Rightarrow$  name topic\_tid error\_code error\_msssage TMG\_BUFFER
name  $\Rightarrow$  COPPACT\_MILLABLE\_STRING
topic\_tid  $\Rightarrow$  NOTE
error\_mssage  $\Rightarrow$  COPPACT\_MILLABLE\_STRING

FIELD
throttle\_time\_ms
responses
name
topic\_id
error\_code
error\_message
\_tagged\_fields DESCRIPTION

The duration in milliseconds for which the request was throtted due to a quota violation, or zero if the request did not violate any quota. The results for each topic we tried to delete. The topic name the unique topic ID The deletion error, or 0 if the deletion succeeded.

The error message, or null if there was no error.

The tagged fields

# DeleteRecords API (Key: 21):

Requests:

DeleteRecords Request (Version: 8)  $\Rightarrow$  [topics] tin topics  $\Rightarrow$  name [partitions] name  $\Rightarrow$  STRIMG partitions  $\Rightarrow$  partition\_index offset partition\_index  $\Rightarrow$  NMT22 offset  $\Rightarrow$  NMT42 timeout\_ns  $\Rightarrow$  NMT32

field topics name partitions partition\_index offset Each topic that we want to delete records from The partition index.
The deletion offset. How long to wait for the deletion to complete, in milliseconds

DeleteMecords Request (Version: 1)  $\Rightarrow$  [topics] timeout\_ms topic  $\Rightarrow$  new [partitions] name  $\Rightarrow$  STMID partition  $\Rightarrow$  partition index offset partition (partition  $\Rightarrow$  partition  $\Rightarrow$  partition (partition  $\Rightarrow$  partition  $\Rightarrow$  partition

FIELD topics name DESCRIPTION

Each topic that we want to delete records from The topic name. Each partition that we want to delete records from How long to wait for the deletion to complete, in milliseconds

DeleteRecords Request (Version: 2) ⇒ [topics] timeout\_ms TAG\_BUFFER
topics ⇒ name [partitions] TAG\_BUFFER
name ⇒ COMPACT STRING

FIELD	DESCRIPTION
topics	Each topic that we want to delete records from.
name	The topic name.
partitions	Each partition that we want to delete records from.
partition_index	The partition index.
offset	The deletion offset.
_tagged_fields	The tagged fields
_maged_fields	The tagged fields
timeout, ms	How long to wait for the deletion to complete, in milliseconds.
_tagged_fields	The tagged fields

FELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic that we wanted to delete records from.
name	The topic name.
partitions	Each partition that we wanted to delete records from.
partition_index	The partition index.
low_watermark	The partition low water mark.
error_code	The deletion error code, or 0 if the deletion succeeded.

DeletaBocords Response (Version: 1) -> thruttle time\_ms [topics]
throttle\_time\_ms -> DATA
throttle\_time\_ms -> DATA
topics -> Damag [purtitions]
name -> STRNME
partitions -> purtition\_index low\_watermark error\_code
partition\_sedex -> DATA
tow\_watermark -> DATA
error\_code -> DATA
error\_code -> DATAS

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic that we wanted to delete records from.
name	The topic name.
partitions	Each partition that we wanted to delete records from.
partition_index	The partition index.
low_watermark	The partition low water mark.
error_code	The deletion error code, or 0 if the deletion succeeded.

Deletwhecords Response (Version: 2) --> throttle\_time\_ms [topics] TAG\_BUFFER throttle\_time\_ms --> INT22 throttle\_time\_ms --> INT24 throttle\_time\_ms --> INT24 throttle\_time\_ms --> COPPACT\_STRING partitions --> COPPACT\_STRING partition\_index --> COPPACT\_STRING partition\_index --> INT24 throttle\_time\_ms --> INT24 thrott

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic that we wanted to delete records from.
name	The topic name.
partitions	Each partition that we wanted to delete records from.
partition_index	The partition index:
low_watermark	The partition low water mark.
error_code	The deletion error code, or 0 if the deletion succeeded.
_maged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

 $In itProducerId Request (Version: 0) \Rightarrow transactional\_id transaction\_timeout\_ns \\ transactional\_id \Rightarrow MULIABLE_STRING \\ transaction\_timeout\_ns \Rightarrow INT32$ 

FIELD
transactional\_id
transaction\_timeout\_ms DESCRIPTION

The transactional id, or null if the producer is not transactional.

InitProducerId Request (Version: 1) -> transactional\_id transaction\_timeout\_ms transactional\_id -> NULLBEE\_STRING transaction\_timeout\_ms -> INT32

FIELD transactional\_id transaction\_timeout\_ms DESCRIPTION

The transactional id, or null if the producer is not transactional.

The time in ms to wait before aborting idle transactions ent by

InitProducerId Request (Version: 2) -> transactional\_id transaction\_timeout\_ms TAG\_BUFFER transactional\_id -> COMPACT\_MULABLE\_STRING transaction\_timeout\_ms -> INT32

FIELD transactional\_id GESCREPTION

The transactional id, or not if the producer is not transactional.

The trans in may to wait before aborting die transactions and by the producer. This is only relevant if a Transactional than been defined. \_tagged\_fields

InitProductIA Request (Version: 3)  $\Rightarrow$  transactional id transaction\_limeout\_ms producer\_id producer\_apach TAG\_BUFFER transactions\_id as COMPACT\_MINISER\_STRING Transaction\_limeout\_as  $\Rightarrow$  DTR21 product\_spice  $\Rightarrow$  DTR21 product\_spice  $\Rightarrow$  DTR21

FIELD transactional\_id transaction\_timeout\_ms DESCRIPTION

The transactional id, or null if the producer is not transactional.

The time in ms to wait before aborting idle transactions sent it. The producer id. This is used to disambiguate requests if a transactional id is reused following its expiration.

The producer's current spoch. This will be checked against the producer spoch on the broker, and the request will return an error if they do not match.

Instructure18 Request (Version: 4) -> transactional\_id transaction\_timeout\_ms producer\_id producer\_epoch TAG\_RUFFER transactional\_id -> COMPAT\_MALLHEL\_STRING
Transaction\_timeout\_ms -> INT2
producer\_id -> INT4
producer\_id -> INT64
producer\_id -> INT64

FIELD
transactional\_id
transaction\_timeout\_ms
producer\_id OSCIGNITION

The breast-closed all, or nell if the producer's not transactional.

The break man are a set before a feet for the producer's not transactional.

The producer id. This is used to dissantiguate requests if a transactional id is reused following the equisition. The producer's current epoch. This will be checked against the producer epoch on the broker, and the request will return an error if they do not match. The tagged fields

InitProducerId Response (Version 0)  $\Rightarrow$  throttle\_time\_ms error\_code producer\_id producer\_spech throttle\_time\_ms  $\Rightarrow$  NITID error\_code  $\Rightarrow$  NITID producer\_id  $\Rightarrow$  NITID

Select | Bide | Gelete | High Except | Oglete Except | Bornat | Sent | Lipido | Utgdo Al | Sage | Tag Places | View Blook | Web Sole | Devices | Cons Print Edit WE FIELD
throttle\_time\_ms
error\_code
producer\_id
producer\_epoch tled due to a quota violation, or zero if the request did not violate any quota The error code, or 0 if there was no error.

The current producer id. InitProducerid Response (Wersion: 1)  $\Rightarrow$  throttle\_time\_ms error\_code producer\_id producer\_epoch throttle\_time\_ms  $\Rightarrow$  mITI  $\Rightarrow$  moreover\_identity in miTime producer\_id  $\Rightarrow$  mITIme producer\_identity in mITime FIELD throttle\_time\_ms error\_code DESCRIPTION

The duration in miliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota The error code, or 0 if there was no error. InitProducer1d Response (Version: 2)  $\Rightarrow$  throttle\_time\_ms error\_code producer\_id producer\_epoch TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  DTM2 producer\_id  $\Rightarrow$  DTM4 producer\_id  $\Rightarrow$  DTM4 producer\_id  $\Rightarrow$  DTM4 FIELD throttle\_time\_ms The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota The error code, or 0 if there was no error. The current producer id. The current epoch ass InitProducer1d Response (Version: 1)  $\Rightarrow$  throttle\_time\_ms error\_code producer\_id producer\_epoch TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  DTTG producer\_id  $\Rightarrow$  DTTG producer\_id  $\Rightarrow$  DTTG producer\_id  $\Rightarrow$  DTTG FIELD
throttle\_time\_ms
error\_code
producer\_id
producer\_epoch
\_tagged\_fields DESCRIPTION

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota The error code, or 0 if there was no error. The tagged fields InitProducerId Response (Vers throttle\_time\_ms => INT32 error\_code => INT16 producer\_id => INT16 producer\_epoch => INT16 FIELD
throttle\_time\_ms
error\_code
producer\_id
producer\_epoch
\_tagged\_fields OESCREPTION

The duration in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quote.

The error code, or 0 if there was no error. The current producer id.

The current epoch associated

The tagged fields OffsetForLanderEpoch Request (Version: 0) ∞ [topics] topics ⇒ topic [partitions] topic ≈ STRIMS partitions ⇒ partition leader epoch partition ≈ MT32 leader epoch ⇒ IMT32 DESCRIPTION

Each topic to get offsets for The topic name. leader\_epoch The epoch to look up an offset for. OffsetForLeaderSpoch Request (Version: 1) → [topics]
topics → topic [partitions]
topic → STRING
partitions → partition leader\_epoch
partition → DTM2
leader\_epoch → INT32 FIELD topics topic Each topic to get off The topic name. Each partition to get offsets for.
The partition index. The epoch to look up an offset for OffsetForLeaderSpoch Request (Version: 2)  $\Rightarrow$  [topics] topics  $\Rightarrow$  topic [partitions] topic  $\Rightarrow$  STRIMG partitions  $\Rightarrow$  partition ourrent leader epoch leade partition  $\Rightarrow$  DNT32 (Leader epoch  $\Rightarrow$  DNT32 FIELD
topics
topic
partitions
partition
current\_leader\_epoch DESCRIPTION

Each topic to get offsets for.

The topic name. The partition below.

As open has do fines communes registes with dis metabasis. If the spooth provided by the client is larger than the current epoch bosons to the broker, then the UNROVINI\_LEAGE\_PPOOF error code will be returned. If the proper his manufact than the TRINCE\_LEAGE\_PPOOF error code will be returned. The epoch to look up an offset for. OffsetForLanderEpoch Request (Version: 3) -> replica\_id [topics] replica\_id -> NTH22 replica\_id -> NTH22 replica\_id -> NTH22 replica\_id -> NTH24 replica\_id -> NTH24 replica\_id -> NTH24 partition -> STRIME partition -> STRIME partition -> STRIME partition -> NTH22 replica\_iden\_repoch leader\_epoch partition -> NTH22 leader\_spoch replica\_id topics topic partitions partition Each topic to get offsets for. An epoch used to fence consumers/replicas with old metadata. If the epoch provided by the client is larger than the current epoch known to the broker, then the UNKNOWN\_LEADER\_EPOCH error code will be returned. If the pro current\_leader\_epoch leader\_epoch The epoch to look up an offset for. OffsetForLanderSpach Request (Version: 4) -> replica\_id [topics] TMG\_BUFFER replica\_id -> 1HT32 | TMG\_BUFFER topic -> Topic [portlines] TMG\_BUFFER topic -> COPWACT\_STRUM. Partition -> 2 partition current\_leader\_epoch leader\_epoch TAG\_BUFFER partition -> 1HT32 | Turnettion -> 1HT32 | Tu

DESCRIPTION

The broker ID of the follower, of -1 if this request is from a consumer.

Each topic to get offsets for.

Print Edit WE

partitions	Each partition to get offsets for.
partition	The partition index.
ourrent_leader_epoch	An epoch used to fence concurrent/replicas with old metadata. If the epoch provided by the client is larger than the current epoch known to the broker, then the UNKNOWN_LEADER_EPOCH error code will be returned. If the provided epoch is smaller, then the FENCED_LEADER_EPOCH error code will be returned.
leader_epoch	The epoch to look up an offset for.
_tagged_fields	The tagged felds
_tagged_fields	The tagged felds
_tagged_fields	The tagged fields

OffsetForLeaderSpoch Response (Version: 0) → [topics]
topic: → topic [partitions]
topic → STRING
partitions → orror code partition end offset
error code → INTI2
end offset → INTE2
end offset → INTE4

FELD	DESCRIPTION
topics	Each topic we fetched offsets for.
topic	The topic name.
partitions	Each partition in the topic we fetched offsets for.
error_code	The error code 0, or if there was no error.
partition	The partition index:
end_offset	The end offset of the epoch.

OffsetForLeaderEpach Response (Version: 1) → [topics]
topics → topic [partitions]
topic → TOPIC |
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FIELD	DESCRIPTION
topics	Each topic we fetched offsets for.
topic	The topic name.
partitions	Each partition in the topic we fetched offsets for.
error_code	The error code 0, or if there was no error.
partition	The partition index:
leader_epoch	The leader spoch of the partition.
and_affset	The end offset of the epoch.

OffsetForLeaderEpoch Response (Wersion: 2)  $\Rightarrow$  throttle\_time\_ms [topics] throttle\_time\_ms  $\Rightarrow$  NTH2 topics  $\Rightarrow$  topic [partitions] topic  $\Rightarrow$  Timel partitions  $\Rightarrow$  error\_code partition leader\_epoch end\_offset error\_code> DTHG partition  $\Rightarrow$  NTH2 partition  $\Rightarrow$  NTH2 end\_offset  $\Rightarrow$  NTH2 end\_offset  $\Rightarrow$  NTH4

FELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic we fetched offsets for.
topic	The topic name.
partitions	Each partition in the topic we fetched offsets for.
error_code	The error code 0, or if there was no error.
partition	The partition index.
leader_epoch	The leader epoch of the partition.
end_offset	The end offset of the epoch.

offsetForLeaderSpeck Response (Verlice: 3) ⇒ throttle\_time\_ms [tepics]
throttle\_time\_ms ⇒ INT2
topics ⇒ topic [cartitions]
topic ⇒ STRIME
partitions → STRIME
partitions → error\_code partition leader\_epoch and\_offset
error\_code ⇒ INT2
error\_code ⇒ INT2
end\_offset ⇒ INT2
end\_offset ⇒ INT2
end\_offset ⇒ INT24

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic we fetched offsets for.
topic	The topic name.
partitions	Each partition in the topic we fetched offsets for.
error_code	The error code 0, or if there was no error.
partition	The partition index.
leader_spoch	The leader epoch of the partition.
ond_offset	The end offset of the epoch.

OffsetForLeaderEpoch Response (Version: 4) -> throttle\_time\_ms [topics] TAG\_RUFFER
throttle\_time\_ms -> INT2
topics -> topic\_partitions] TAG\_RUFFER
topic -> CORMACT\_STRILE
top

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic we fetched offses for.
topic	The topic name.
partitions	Each partition in the topic we fetched offsets for.
error_code	The error code 0, or if there was no error.
partition	The partition index.
leader_epoch	The leader epoch of the partition.
ond_offset	The end offset of the epoch.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

AddritionsTaths Request (Version: 0)  $\Rightarrow$  v3 and below transactional id v3 and below producer id v3 and below producer epoch [v3 and below topics] v3 and below producer epoch [v3 and below topics] v3 and below producer id  $\Rightarrow$  THING v3 and below producer id  $\Rightarrow$  THING v3 and below producer id  $\Rightarrow$  THING v3 and below producer goods  $\Rightarrow$  THING v3 and below producer goods  $\Rightarrow$  THING v3 and below producer goods  $\Rightarrow$  THING partitions  $\Rightarrow$ 

FELD	DESCRIPTION
v3_and_below_transactional_id	The transactional id corresponding to the transaction.
v3_and_below_producer_id	Current producer id in use by the transactional id.
v3_and_below_producer_epoch	Current epoch associated with the producer id.
v3_and_below_topics	The partitions to add to the transaction.
name	The name of the topic.
partitions	The partition indexes to add to the transaction

Addractitions form Request (Version: 1)  $\infty$  v2 and below transactional id v2 and below producer id v2 and below producer spech [v2] and below topics] v2 and below producer is  $\infty$  INTSE
partitions  $\infty$  INTSE
partitions  $\infty$  INTSE

v3 and helow transactional if	The transactional of consonantino to the transaction
FIELD	DESCRIPTION

Select   Units Codes High Except Codes Except   Epires   Total   Units   Upda All   Sequ   Tog Piscos   View Upon   Upda Sign   Epires   Episcos	Print Edit WE
V3_and_below_producer_jd  V3_and_below_producer_poech	Current producer if in use by the transactional id.  Current epoch associated with the producer id.
vs_ms_process_upon vs_ms_broken_upon	The partitions to add to the transaction.
nama partitons	The name of the topic.  The partition indexes to add to the transaction
AddPartitionsToThm Request (Version: 2) => v3 and below_transactional_id v3_and_below_producer_id v3_and_below_producer_epoch [v3_and_below_topics] v3_and_below_transactional_id => STRIME v3_and_below_producer_id=> STRIME v3_and_below_producer_pdc>> STRIME partitions>> INTEX	
FELD	DESCRIPTION
v3_and_below_transactional_id v3_and_below_producer_id	The transactional id corresponding to the transaction.  Current producer id in use by the transactional id.
v3_and_below_producer_epoch	Current epoch associated with the producer id.
v3_and_below_topics name	The partitions to add to the transaction.  The name of the topic.
partitions  AddPartitionStrine Request (Version: 3) => 12, and, below, transactional, id v2, and, below, producer, is v2, and, below, producer, epoch [v3, and, below, topics] TAG_BUFFER v3, and below producer, id v> DTMC4 v3, and below producer, epoch >> DTMS v3, and below producer, epoch (v3, and below, topics) TAG_BUFFER name occupant (TMMS) partition >> DTMS	The partition indices to add to the transaction
FELD  V3 and below transactional Jd	DESCRIPTION  The transactional if corresponding to the transaction.
v3_and_below_producer_id	Current producer id in use by the transactional id.
v3_and_below_producer_apach v3_and_below_topics	Current epoch associated with the producer id.  The partitions to add to the transaction.
name	The name of the topic.
partitions Lagged fields	The partition indexes to add to the transaction  The tagged fields
_tagged_fields	The tagged fields
AddWartitionsToTon Request (Version: 4) => (transactions) TAG_ROFFER transactions -> transactions_isproducer_speck verify_only (topics) TAG_ROFFER transactions_is -> COMPACT_STRIBLE producer_id -> STRIPL verify_only (topics) TAG_ROFFER verify_only -> ROSCLEAR topics_isproducer_id -> STRIPL producer_id -> ST	
FELD	DESCRIPTION
varisections  varisections  d	List of transactions to add partitions to.  The transactional of corresponding to the transaction.
producer_id	Current producer id in use by the transactional id.
producer_spech verify_only	Current epoch associated with the producer id.  Boolean to signify if we want to check if the partition is in the transaction rather than add it.
topics	The partitions to add to the transaction.
name puritions	The name of the topic.  The partition indexes to add to the transaction
_tagged_fields	The tagged fields
_logged_fields _logged_fields	The tagged fields The tagged fields
Asparations/form Response (Version: 0) $\infty$ throttle_time_ms [results_by_topic_v3_mod_below] throttle_time_ms $\sim 10722$ results_by_topic_v3_mod_below $\infty$ names [results_by_partition] name $\sim 578000$	
results by partition = partition   Index partition error_code partition  part	
partition_ofec = 10722 partition_error_code => 10716  FELD	DESCRIPTION
partition index => INT2 partition_error_code >> INT16	DESCRIPTION  Countries in milliseconds for which the request was therefore due to a quota violation, or zero if the request did not violate any quota.  The results for each of tage.
partition_index => INT2 partition_error_code >> INT16  FEED  words_true_ros	Duration in milliseconds for which the expert was throttled due to a goods violation, or zero if the request did not violate any goots.  The results for each topic.  The logic name.
partition_from_code > INTO partition_error_code > INTO FELD thoughts_fram_se wantk_by_topic_d_and_bdow	Duration in milliseconds for which the expert was throttled due to a quota violation, or zero if the request did not violate any quota. The results for each topic.
partition_from_code >> INTO partition_error_code >> INTO FRED thoms_thes_me mank_by_partition mank_by_partition	Duration in milliseconds for which the request was therefiled due to a quota violation, or zero if the request did not violate any quota.  The results for each topic.  The sought some for each topic.  The sought some for each population.
partition_index > INT2 partition_error_code > INT16  FELD  Browth_Phys.Ra  wauth_Physotic_cl_end_below  name  manuth_Physotic_cl_end_below  partition_index  partition_index	Duration in milliseconds for which the request was theritied due to a quota violation, or zero if the request did not violate any quota.  The security for each trapic.  The typic mans.  The security for each partition.  The purption indicess.
partition_from_code > INT2 partition_error_code > INT16  FMLD  THORD  THORD, Symp. or  House, Symp. or  Hous	Duration in milliseconds for which the registed was therefiled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition indises.  The results for each partition indises.  Consideration in the partition indices.
partition_from_code > NTTS  partition_error_code > NTTS  partition_error_code > NTTS  partition_error_code > NTTS  partition_from_code  partition_from_code  partition_from_code  partition_from_code  partition_error_code (Version: 1) > throttle_time_ps [results.by.topic_ys_med_below]  partition_trottle_from_code  partition_from_code > DTTS  partition_error_code > DTTS  partition_error_code > NTTS  partition_error_code > NTTS  partition_error_code > NTTS  partition_error_code > NTTS	Duption in milliseconds for which the request was therefiled due to a quota violation, or zero if the request did not violate any quota.  The results for each page: The results for each page the results of each page the results of each page the results of each partition. The purption indicese. The response error code:  DESCRIPTION  DUSTION in milliseconds for which the request was therefiled due to a quota violation, or zero if the request did not violate any quota.
partition_todes > INT2 partition_todes > INT2 partition_todes > INT2 partition_todes > INT2  #MAD  **Both  **B	Duration in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  The south for each partition The purificion indicess. The souths for each partition The purificion indicess.  To exposure error code.   DECEMPTION  Duration in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota. The south for each type: The topic name.
partition_from_code >= INT2 partition_error_code >= INT16  FRLD  thous_tns_ms  though_tp_serion  though_tp_serion  partition_proc_code  AddPartition_from_bespaces (Version: 1) >= throttle_time_es [results_by_topic_v2_and_below]  throttle_time_es -= INT2  throttle_time_es -= INT2  partition_proc_code  AddPartition_from_bespaces (Version: 1) >= throttle_time_es [results_by_topic_v2_and_below]  throttle_time_es -= INT2  partition_proc_code >= INT16  FRLD  throttle_time_es -= INT2  partition_proc_code >= INT16	Duration in milliseconds for which the request was therefiled due to a quota violation, or zero if the request did not violate any quota.  The results for each page: The results for each page the results of each page the results of each partition The purificion indiceses. The response error code:  DESCRIPTION  Duration in milliseconds for which the request was therefiled due to a quota violation, or zero if the request did not violate any quota. The results for each topic. The results for each topic. The secults for each topic. The topic losses.
partition_todes > INT2 partition_todes > INT2 partition_todes > INT2 partition_todes > INT2  #MAD  **Both  **B	Duration in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  The south for each partition The purificion indicess. The souths for each partition The purificion indicess.  To exposure error code.   DECEMPTION  Duration in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota. The south for each type: The topic name.
partition_from_code > INT2 partition_error_code > INT16  FRED  Thorma_tran_ara  manule_ty_pus_tand_below  manule_ty_puston  partition_tran_from  manule_ty_puston  partition_tran_from  manule_ty_puston  partition_tran_from Response (Version: 1) > threttin_time_as [results_by_topic_v2_and_below]  threttin_time_as - INT2  traveltte_ty_topic_v1_and_below > name [results_by_topic_v2_and_below]  threttin_time_as - INT2  partition_or_from_code > INT16  FRED	Durstion in milliseconds for which the registed was therefilled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The segments enter code.  DissolverMode  Durstion in milliseconds for which the request was therefilled due to a quota violation, or zero if the request did not violate any quota.  DissolverMode  Durstion in milliseconds for which the request was therefilled due to a quota violation, or zero if the request did not violate any quota.  The results for each street.
partition_todes > INTS partition_todes > INTS partition_todes > INTS  #### Decomparison  ###################################	Doubtion in milliseconds for which the regard was throttled due to a quota violation, or zero if the request did not violate any quota.  The souths for each partition The partition indicess.  The souths for each partition  DELICRAPTION  DELICRAPTION  DELICRAPTION  DELICRAPTION  The partition indicess through the request was throttled due to a quota violation, or zero if the request did not violate any quota.  The south of or each partition The south of or each partition The south of or each partition.
partition_from_code > INTIS  partition_from_code > INTIS  partition_from_code > INTIS  #### Double_from_from  ###################################	Duration in milliseconds for which the registed was therefiled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition indisess. The results for each partition The partition indisess.  Description in milliseconds for which the request was therefore due to a quota violation, or zero if the request did not violate any quota.  Description in milliseconds for which the request was therefore due to a quota violation, or zero if the request did not violate any quota.  The security for each partition in the register was therefore due to a quota violation, or zero if the request did not violate any quota.  The security for each partition in the partition in the register was the register of the request did not violate any quota.  The security for each partition in the par
partition_error_code = NTIS  partition_error_code = NTIS  partition_error_code = NTIS  partition_error_code = NTIS  partition_proc_code_partition_error_code  partition_proc_code_partition_error_code  partition_proc_code_partition_error_code  partition_proc_code_partition_error_code  partition_error_code = NTIS	Duration in mills accords for which the registed was throttled due to a goods violation, or zero if the request did not violate any goods.  The search for each partition The search for e
partition_row_code > NTTS  partition_row_code > NTTS  THERD  THERD  THERD  THERD, TABLES, TABLES, AND ADDRESS  AND ADDRESS, TABLES, AND ADDRESS  ADDRESS, TABLES, AND ADDRESS  ADDRESS, TABLES, AND ADDRESS, AND ADDR	Durstion in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition indices.  Description  Descri
partition_from_code > INTIS  partition_from_code > INTIS  #MRD  #M	Durstion in milliseconds for which the regard was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition includes.  Did Schieffford  Durstion in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.  Did Schieffford  Durstion in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition indexes.  The response error code.  Did Schiefford  Durstion in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition indexes.  The response error code.  Did Schiefford  Durstion in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition for each partition The results for each partition
partition_todes > INTS partition_todes > INTS partition_todes > INTS  #### Decommendation of the partition o	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any grota.  The results for each partition The partition indexes.  Oct.CREPTION  Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any grota.  The results for each partition The partition indexes.  Oct.CREPTION  Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any grota.  The results for each partition The results for each partition  Oct.CREPTION  Oct
partition_from_code > NNTS  partition_from_code > NNTS  #MRD  #MRD	Dustion in mills ecords for which the regard was throttled due to a goods violation, or zero if the request did not violate any goods.  The results for couch partition The partition in mills ecords for which the vegent was throttled due to a goods violation, or zero if the request did not violate any goods.  DUSCORPTION  DUSCORP
partition_from_code = NINTS  partition_error_code = NINTS  #MRD  #MRD_Man_ma  #MRD_Man_from_code  #MRD_Man_from_code = MRD_Man_from_code  #MRD_Man_from_code = MRD_Man_from_code = MRD_Man_from_code  #MRD_Man_from_code = MRD_Man_from_code = MRD_Man	Duration in militiaconds for which the registed was throttled due to a goods violation, or zero if the request did not violate any goods.  The sealab for out-of-partition  DUSCORPTION  CESCORPTION  CE
partition_from_code => NTH2 partition_error_code => NTH2  SHORD  SHORD_NIME_NIME  SHORD_NIME  SHORD_N	Disclose in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The partition induses.  DisclosePTION  Disclose in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  DisclosePTION  Disclose in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  DisclosePTION  Disclose in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  DisclosePTION  Disclose in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  DisclosePTION  Disclose in milliseconds for which the registed was throttled due to a quota violation, or zero if the request did not violate any quota.  The results for each partition The results for each partition The results for each partition The partition indexes.  The seguence error code.

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FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The response top level error code.
results_by_transaction	Results categorized by transactional ID.
transactional_id	The transactional id corresponding to the transaction.
topic_results	The results for each topic.
name	The topic name.
results, by, partition	The results for each partition
partition_index	The partition indexes.
partition, error, code	The response error code.
_tagged_fields	The tagged fields

AddOffsetsToTxn Request (Versi transactional\_id => STRING producer\_id => INT64 producer\_epoch => INT16 group\_id => STRING

FELD	DESCRIPTION
transactional_id	The transactional id corresponding to the transaction.
producer_id	Current producer id in use by the transactional id.
producer_apoch	Current epoch associated with the producer id.
group_id	The unique group identifier.

AddfrigstToIn Request (Version 1)  $\Rightarrow$  transactional\_id producer\_id producer\_spoch group\_id transactional\_id  $\Rightarrow$  STRIMG producer\_id  $\Rightarrow$  STRIMG producer\_good  $\Rightarrow$  NTTG group\_id  $\Rightarrow$  STRIMG

FELD	DESCRIPTION
transactional_id	The transactional id corresponding to the transaction.
producer_id	Current producer id in use by the transactional id.
producer_epoch	Current epoch associated with the producer id.
group_id	The unique group identifier.

AddOffsetToDam Request (Version: 2)  $\Rightarrow$  transactional\_id producer\_id producer\_spoch group\_id transactional\_id  $\Rightarrow$  STRIMG producer\_spoch  $\Rightarrow$  INTIG group\_id  $\Rightarrow$  TNTIG

FIELD	DESCRIPTION
transactional_id	The transactional id corresponding to the transaction.
producer_id	Current producer id in use by the transactional id.
producer_spoth	Current epoch associated with the producer id.
group_id	The unique group identifier.

FELD	DESCRIPTION
transactional_id	The transactional id corresponding to the transaction.
producer_id	Current producer id in use by the transactional id.
producer_epoch	Current epoch associated with the producer id.
group_id	The unique group identifier.
_tagged_fields	The tagged fields

AddOffsetsToTxn Response (Version: 0)  $\Rightarrow$  throttle\_time\_ms error\_code throttle\_time\_ms  $\Rightarrow$  INT132 error\_code  $\Rightarrow$  INT15

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The response error code, or 0 if there was no error.

AddOffsetsToTxn Response (Version: 1)  $\rightarrow$  throttle\_time\_ms error\_code throttle\_time\_ms  $\Rightarrow$  1MT32 error\_code  $\Rightarrow$  1MT16

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The response error code, or 0 if there was no error.

AddOffsetsToTxn Response (Version: 2) -> throttle\_time\_ms error\_code throttle\_time\_ms -> JNT32 error\_code -> JNT16

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The response error code, or 0 if there was no error.

AddOffsetsToTxn Response (Version: 3)  $\Rightarrow$  throttle\_time\_ms\_error\_code TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  INT32 error\_code  $\Rightarrow$  INT16

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The response error code, or 0 if there was no error.
tagged fields	The tanged fields

# EndTxn API (Key: 26):

# Requests:

EndTxn Request (Version: 0) => tr transactional\_id => STRING producer\_id => INT64 producer\_epoch => INT16 committed => BOOLEAN

FELD	DESCRIPTION
transactional_id	The ID of the transaction to end.
producer_id	The producer ID.
producer_epoch	The current epoch associated with the producer.
committed	True if the transaction was committed, false if it was aborted.

EndTho Request (Version: 1)  $\Rightarrow$  transctional\_id producer\_id producer\_epoch committed transctional\_id  $producer_id$  producer\_epoch committed producer\_id  $producer_id$   $producer_id$  pr

PIELD	DESCRIPTION
transactional_id	The ID of the transaction to end.
producer_id	The producer ID.
producer_epoch	The current epoch associated with the producer.
committed	True if the transaction was committed, false if it was aborted.

Endform Request (Version: 2)  $\Rightarrow$  transactional\_id producer\_id producer\_epoch committed transactional\_id  $\Rightarrow$  STRIEG producer\_id  $\Rightarrow$  STRIEG producer\_id  $\Rightarrow$  STRIEG committed  $\Rightarrow$  SDECLEM

FELD	DESCRIPTION
transactional_id	The ID of the transaction to end.
producer_id	The producer ID.
producer_epoch	The current epoch associated with the producer.
committed	True if the transaction was committed false if it was aborted.

Endha Request (Version: 1) or transactional\_id producer\_id producer\_epoch committed TAG\_RUFFER transactional\_id or COMPACT\_STRING producer\_id or JUTH4 producer\_spool or JUTH4 committed or DOLIEM

FIELD	DESCRIPTION
transactional_id	The ID of the transaction to end.
producer_id	The producer ID.
producer_epoch	The current epoch associated with the producer.
committed	True if the transaction was committed, false if it was aborted.
_tagged_fields	The tagged fields

## Responses:

EndTxm Response (Version: 0) → throttle\_time\_ms error\_code throttle\_time\_ms → IMT32 error\_code → IMT16

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.

EndTxn Response (Version: 1) => throttle\_time\_ms error\_code
 throttle\_time\_ms => INT32

FIELD	DESCRIPTION
throttle_time_rms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error code	The error code or fi if there was no error

EndTxn Response (Version: 2) -> throttle\_time\_ms error\_code throttle\_time\_ms -> INT32 error\_code -> INT16

error\_code ~ INT16

EELD

DESCRIPTION

DESCRIPTION

Throughout, ms

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request def not violate any quota.

error\_code

The error code, or 0 if there was no error.

EndTxm Response (Version: 3)  $\Rightarrow$  throttle\_time\_ms error\_code TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  INT32 error\_code  $\Rightarrow$  INT16

FELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields

## WriteTxnMarkers API (Key: 27):

## Requests

FIELD	DESCRIPTION
markers	The transaction markers to be written.
producer_id	The current producer ID.
producer_epoch	The current epoch associated with the producer ID.
transaction_result	The result of the transaction to write to the partitions (false = ABORT, true = COMMIT).
topics	Each topic that we want to write transaction marker(s) for.
name	The topic name.
partition_indexes	The indexes of the partitions to write transaction markers for.
coordinator, epoch	Epoch associated with the transaction state partition hosted by this transaction coordinator

WriterOfferfors Request (Version: 1) -> (markers) TAG\_BUFFER
markers -> producer\_ide producer\_goodh transaction\_result [topics] coordinator\_spoch TAG\_BUFFER
producer\_ide-> DITG6
producer\_spoch -> DITG6
partition\_induces -> DITG2
coordinator\_spoch -> DITG2

FELD	DESCRIPTION
markers	The transaction markers to be written.
producer_id	The current producer ID.
producer_epoch	The current epoch associated with the producer ID.
transaction_result	The result of the transaction to write to the partitions (false = ABDRT; true = COMMIT).
topics	Each topic that we want to write transaction marker(s) for.
name	The topic name.
partition_indexes	The indexes of the partitions to write transaction markers for.
_magged_fields	The tagged fields
coordinator, epoch	Epoch associated with the transaction state partition hosted by this transaction coordinator
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

# Responses

WritelroMarkers Response [Version: 0] -> [markers]
markers -> producer\_id [tepics]
producer\_id -> NIM64
topics -> name [partitions]
name -> STRIM6
partitions -> partition\_index error\_code
partition\_index -> NIM12
error\_code -> NIM16

FELD	DESCRIPTION
markers	The results for writing makers.
producer_id	The current producer ID in use by the transactional ID.
topics	The results by topic.
name	The topic name.
partitions	The results by partition.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.

WriteLefferfors Response (Wersion: 1) ≈ (markers) TAG\_BUFFER
markers > producer\_id (tppic) TAG\_BUFFER
producer\_id=> DIMT6

topics > mame [partitions] TAG\_BUFFER
partitions > partitions | Mag\_BUFFER
partitions > partitions | mag\_BUFFER
partitions > DIMT2

error\_code >> DIMT6

FIE	ELD	DESCRIPTION
ma	arkars	The results for writing makers.

producer_id	The current producer ID in use by the transactional ID.
topics	The results by topic.
name	The topic name.
partitions	The results by partition.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_taggad_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

## TxnOffsetCommit API (Key: 28):

## Requests

TheoffretCommit Reputs! (Verion: 8) -> transactional\_id group\_id producer\_id producer\_epach [topics]
transactional\_id -> TRING
group\_id -> TRING
group\_id -> TRING
producer\_servic -> TRING
producer\_servic -> TRING
topics -> mass [partition]
name -> TRING
partition\_idear-ow\_TRITG

partition\_idear-ow\_TRITG

committed\_offset -> TRITG

committed\_offset -> TRING

FIELD	DESCRIPTION
transactional_id	The ID of the transaction.
group_id	The ID of the group.
producer_id	The current producer ID in use by the transactional ID.
producer_spoch	The current epoch associated with the producer ID.
topics	Each topic that we want to commit offsets for.
name	The topic name.
partitions	The partitions inside the topic that we want to commit offsets for.
partition_index	The index of the partition within the topic.
committed_offset	The message offset to be committed.
committed_metadata	Any associated metadata the client wants to keep.

ThirdfestCommit Request (Mersion: 1) -> transactional\_id group\_id producer\_id producer\_spech [topics]
transactional\_id -> STRUE
group\_id -> STRUE
group\_id -> STRUE
producer\_id -> DITG

topics -> DITG

topics -> DITG

producer\_geods -> DITG

topics -> DITG

producer\_geods -> DITG

producer\_geods -> DITG

committed\_frest -> DITG

committed\_frest

FIELD	DESCRIPTION
transactional_id	The ID of the transaction.
group_id	The ID of the group.
producer_id	The current producer ID in use by the transactional ID.
producer_spoch	The current epoch associated with the producer ID.
topics	Each topic that we want to commit offsets for.
name	The topic name.
partitions	The partitions inside the topic that we want to commit offsets for.
partition_index	The index of the partition within the topic.
committed_offset	The message offset to be committed.
committed_metadata	Any associated metadata the client wants to keep.

Third TestComit Request (Norsion: 2) -> transactional\_id group\_id producer\_id producer\_epoch [topics]
transactional\_id -> STRIMG
group\_id -> STRIMG
group\_id -> STRIMG
group\_id -> STRIMG
group\_id -> STRIMG
producer\_epoch -> STRIMG
topics-> Comitsed\_id= STRIMG
partitions-> partition\_id= comitted\_orfset comitted\_leader\_spech comitted\_metadata
partition\_id=> STRIMG
comitted\_id=> STRIMG
comitted\_id=> STRIMG
comitted\_orfset=> STRIMG
comitted\_orfsdata-> STRIMG

FIELD	DESCRIPTION
transactional_id	The ID of the transaction.
group_id	The ID of the group.
producer_id	The current producer ID in use by the transactional ID.
producer_epoch	The current epoch associated with the producer ID.
topics	Each topic that we want to commit offsets for.
name	The topic name.
partitions	The partitions inside the topic that we want to commit offsets for.
partition_index	The index of the partition within the topic.
committed_offset	The message offset to be committed.
committed_leader_epoch	The leader spoch of the last consumed record.
committed_metadata	Any associated metadata the client wants to keep.

TwoOffesComest Request (Version: 1) -> transactional\_id group\_id producer\_doproducer\_speck generation\_id sember\_id group\_instance\_id [topics] TAG\_BUFFER
transactional\_id -> COMPACT\_STRING
group\_id -> COMPACT\_STRING
producer\_speck -> LUTG4
generation\_id -> LUTG4
generation\_id -> LUTG2
generation\_id -> COMPACT\_STRING

FELD	DESCRIPTION
transactional_id	The ID of the transaction.
group.Id	The ID of the group.
producer_id	The current producer ID in use by the transactional ID.
producer_sporth	The current epoch associated with the producer ID.
generation_id	The generation of the consumer.
member_id	The member ID assigned by the group coordinator.
group_instance_id	The unique identifier of the consumer instance provided by end user.
topics	Each topic that we want to commit offsets for,
name	The topic name.
partitions	The partitions inside the topic that we want to commit offsets for.
partition_index	The index of the partition within the topic.
committed_offset	The message offset to be committed.
committed_leader_spech	The leader epoch of the last consumed record.
committed_metadata	Any associated metadata the client wants to keep.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

## Responses

FELD DESCRIPTION	
threeting, time, ms  The duration in milliseconds for which the request was threetind due to a quote violation, or zero if the request did not violate any quote.	
topics The responses for each topic:	
Name The basis name.	

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The responses for each partition.
The responses for each partition is the legic.

The responses for each partition.

The response for each partition.

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses for each topic.
name	The topic name.
partitions	The responses for each partition in the topic.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.

TonOffsetCommit Response (Version: 2)  $\Rightarrow$  throttle\_lime\_ms [topics] threattle\_time\_ms  $\Rightarrow$  ITIND sport(inset) anae  $\Rightarrow$  ITIND sport(inset) anae  $\Rightarrow$  ITIND sport(inset) apprilitions  $\Rightarrow$  Departure  $\Rightarrow$  De

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	The responses for each topic.
name	The topic name.
partitions	The responses for each partition in the topic.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.

TooffsetCommit Response (Version: 3)  $\infty$  throttle\_time\_ss [topics] TAG\_BUFFER throttle\_time\_ss  $\infty$  INT2 projects on ame [partitions] TAG\_BUFFER name  $\infty$  COMPACT\_STRING partitions of Separation index error\_code TAG\_BUFFER partition\_index  $\infty$  INT2 error\_code  $\infty$  INTS

DESCRIPTION
The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
The responses for each topic.
The topic name.
The responses for each partition in the topic.
The partition index.
The error code, or 0 if there was no error.
The tagged fields
The tagged fields
The tagged fields

## DescribeAcis API (Key: 29):

## Renuests:

Described:is Request (Version: 0) -> resource\_type\_filter resource\_name\_filter principal\_filter bost\_filter operation permission\_type resource\_type\_filter -> NURAME\_STRIME principal\_filter -> NURAME\_STRIME bost\_filter -> NURAME\_STRIME operation -> DITE principal\_type -> DITE

PIELD	DESCRIPTION
resource, type_fiter	The resource type.
resource_name_filter	The resource name, or null to match any resource name.
principal_filter	The principal to match, or null to match any principal.
host_filter	The host to match, or null to match any host.
operation	The operation to match.
nermicsing type	The narmission type to match

Describablis Request (Version: 1) ~ resource\_type\_filter resource\_name\_filter pattern\_type\_filter principal\_filter bost\_filter operation permission\_type
resource\_type\_filter ~> DRT
resource\_name\_filter ~> DRLAMIL\_STRING
partern\_type\_filter ~> DRLAMIL\_STRING
partern\_type\_filter ~> DRLAMIL\_STRING
bost\_filter ~> DRLAMIL\_STRING
operation ~> DRLAMIL\_STRING
operation ~> DRLAMIL\_STRING
operation ~> DRLAMIL\_STRING
operation ~> DRLAMIL\_STRING

Described: Request (Version: 2) ~ resource\_type\_filter resource\_name\_filter\_pattern\_type\_filter principal\_filter host\_filter\_operation\_permission\_type\_TAG\_RUFFER\_resource\_type\_filter ~ COMPACT\_NULLABLE\_STRING pattern\_type\_filter ~ COMPACT\_NULLABLE\_STRING pattern\_type\_filter ~ COMPACT\_NULLABLE\_STRING pattern\_type\_filter ~ COMPACT\_NULLABLE\_STRING pattern\_type\_filter ~ COMPACT\_NULLABLE\_STRING particles\_filter\_compact\_nullable\_string particles\_filter\_compact\_nullable\_string particles\_filter\_compact\_nullable\_string particles\_filter\_compact\_nullable\_string particles\_filter\_compact\_nullable\_string particles\_filter\_compact\_nullable\_string particles\_filter\_compact\_nullable\_string\_compact\_nullable\_strin

FIELD	DESCRIPTION
resource_type_filter	The resource type.
resource_name_filter	The resource name, or rull to match any resource name.
pattern_type_filter	The resource pattern to match.
principal_filter	The principal to match, or null to match any principal.
host_filter	The host to match, or null to match any host.
operation	The operation to match.
permission_type	The permission type to match.
_tagged_fields	The tagged fields

Describablis Request (Version: 1) > resource\_type\_filter resource\_name\_filter pattern\_type\_filter principal\_filter host\_filter operation permission\_type TAG\_RWFFER resource\_type\_filter > DUTB

resource\_type\_filter > DUTB

pattern\_type\_filter > DUTB

pattern\_type\_fil

FIELD	DESCRIPTION
resource_type_filter	The resource type.
resource_name_filter	The resource name, or null to match any resource name.
pattern_type_filter	The resource pattern to match.
principal_filter	The principal to match, or null to match any principal.
host filter	The host to match, or null to match any host.
operation	The operation to match.
permission_type	The permission type to match.
_tagged_fields	The tagged fields

# Responses

DescribeActs Response (Version: 0)  $\Rightarrow$  thrattle\_time\_ms error\_code error\_message [resources] throttle\_time\_ms  $\Rightarrow$  DNT3 error\_code  $\Rightarrow$  DNT5 error\_mssage  $\Rightarrow$  NNLABLE\_STRIMG resources  $\Rightarrow$  resource\_type resource\_name [acts] resource  $\Rightarrow$  TRES

acls -> principal host operation permission\_type principal -> STRING host -> STRING operation -> INT8

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
resources	Each Resource that is referenced in an ACL
resource_type	The resource type.
resource_name	The resource name.
acts	The ACLs.
principal	The ACL principal.
host	The ACL host.
operation	The ACL operation.
permission_type	The ACL permission type.

Describation Response (Persion: 1) -> throttle\_time\_ms error\_code error\_message [resources]
throttle\_time\_ms -> INT2
throttle\_time\_ms -> INT2
error\_code -> INTELE
error\_mscape -> NELLABLE\_TRIME
error\_mscape -> NELLABLE\_TRIME
error\_type -> INT
ersource\_mscape -> NELLABLE\_TRIME
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ersource\_mscape -> NELLABLE\_TRIME
persource\_mscape.

### Comparison
### Compariso

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
resources	Each Resource that is referenced in an ACL
resource_type	The resource type.
resource_name	The resource name.
pattern_typo	The resource pattern type.
acts	The ACLs.
principal	The ACL principal.
host	The ACL host.
operation	The ACL operation.
permission_type	The ACL permission type.

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
eror_message	The error message, or null if there was no error.
resources	Each Resource that is referenced in an ACL.
resourc_type	The resource type.
resource_name	The resource name.
pattern_type	The resource pattern type.
acis	The ACLs.
principal	The ACL principal.
host	The ACL host.
operation	The ACL operation.
permission_type	The ACL permission type.
_lagged_fields	The tagged fields
Jagged_fields	The tagged fields
_tagged_fields	The tagged fields

Describatic Response (Version: 3) --> threttle\_time\_ms error\_code error\_message [resources] TMG\_REFER
threttic time\_ms --> INT2

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e

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request, did not violate any quota.
error_code	The error code, or 0 if there was no error.
eror_message	The error message, or null if there was no error.
resources	Each Resource that is referenced in an ACL
resource_type	The resource type.
resource_name	The resource name.
pattern_type	The resource pattern type.
acis	The ACLs.
principal	The ACL principal.
host	The ACL host.
operation	The ACL operation.
permission_type	The ACL parmission type.
Jagged_fields	The tagged fields
Jagged_fields	The tagged fields
_tagged_fields	The tagged fields

# CreateAcis API (Key: 30

Created: Request (Version: 0)  $\Rightarrow$  [creations] creation  $\Rightarrow$  resource type resource\_name principal host operation permission\_type resource\_name  $\Rightarrow$  STRUM principal  $\Rightarrow$  STRUM  $\Rightarrow$  STRUM principal  $\Rightarrow$  STRUM  $\Rightarrow$  STRUM permission  $\Rightarrow$  STRUM permission  $\Rightarrow$  STRUM permission\_type  $\Rightarrow$  STRUM  $\Rightarrow$  S

FELD	DESCRIPTION
creations	The ACLs that we want to create.
resource_type	The type of the resource.
resource_name	The resource name for the ACL
principal	The principal for the ACL.
host	The host for the ACL.
operation	The operation type for the ACL (read, write, etc.).
permission_type	The permission type for the ACL (allow, dany, etc.).

Creation() Request (Version: 1)  $\Rightarrow$  [creations] creation() creation() executes,  $\Rightarrow$  resource, page resource\_name resource\_pattern\_type principal host operation parmission\_type resource\_name  $\Rightarrow$  NTRIMG resource\_name  $\Rightarrow$  NTRIMG resource\_pattern\_type  $\Rightarrow$  NTRIMG resource\_pattern\_type  $\Rightarrow$  NTRIMG resource\_pattern\_type  $\Rightarrow$  NTRIMG resource\_name.

FELD	DESCRIPTION
creations	The ACLs that we want to create.
resource_type	The type of the resource.
resource_name	The resource name for the ACL.
resource_pattern_type	The pattern type for the ACL
principal	The principal for the ACL.
host	The host for the ACL
operation	The operation type for the ACL (read, write, etc.).
permission_type	The permission type for the ACL (allow, deny, etc.).

CreateActs Request (Version: 2) → [creation] TAG\_BUFFER
creations → resource\_type resource\_name resource\_pattern\_type principal host operation permission\_type TAG\_BUFFER
resource\_name oc@PACT\_STRING
resource\_pattern\_type → DITS
principal → COMPACT\_STRING
host → COMPACT\_STRING
operation → NTTB
permission\_type → ZNTB

FIELD	DESCRIPTION
creations	The ACLs that we want to create.
resource_type	The type of the resource.
resource_name	The resource name for the ACL.
resource_pattern_type	The pattern type for the ACL.
principal	The principal for the ACL.
host	The host for the ACL.
operation	The operation type for the ACL (read, write, etc.).
permission_type	The permission type for the ACL (allow, deny, etc.).
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Createdcis Request (Version: 3)  $\Rightarrow$  [creations] TAG\_BUFFER
creations  $\Rightarrow$  resource\_type resource\_name resource\_pattern\_type principal host operation permission\_type TAG\_BUFFER
resource\_name  $\Rightarrow$  COMPACT\_STRING
resource\_name  $\Rightarrow$  COMPACT\_STRING
resource\_name.  $\Rightarrow$  COMPACT\_STRING
res

FIELD	DESCRIPTION
creations	The ACLs that we want to create.
resource_type	The type of the resource.
resource_name	The resource name for the ACL.
resource_pattern_type	The pattern type for the ACL
principal	The principal for the ACL.
host	The host for the ACL.
operation	The operation type for the ACL (read, write, etc.).
permission_type	The permission type for the ACL (allow, deny, etc.).
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

CreateActs Response (Version: 0) -> throttle\_time\_ms [results] throttle\_time\_ms >> INT32 results -> error\_code error\_message error\_code -> INT16 error\_message >> MULLABLE\_STRING

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each ACL creation.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.

CreateActs Response (Version: 1) → throttle\_time\_ms [results] throttle\_time\_ms → INT32 results → error\_code error\_message error\_code > INT16 error\_message → NOLLABLE\_STRING

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each ACL creation.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.

CreateActs Response (Version: 2)  $\Rightarrow$  throttle\_time\_ms [results] TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  JNT32 results  $\Rightarrow$  error\_code error\_message TAG\_BUFFER error\_code  $\Rightarrow$  JNT16 error\_message  $\Rightarrow$  COMPACT\_MULLABLE\_STRING

FIELD	DESCRIPTION
throttis_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
nesulta	The results for each ACL creation.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.
_tagged_fields	The tagged fields
tagged fields	The taiged fields

CreateLis Response (Version: 3) -> throttle\_time\_ms [results] TAG\_BUFFER throttle\_time\_ms -> INT32 results -> error\_code error\_message TAG\_BUFFER error\_code >> UNIS == error\_code error\_code error\_code error\_code error\_code error\_code => UNIS == error\_code => UNIS => UNIS == error\_code => UNIS == error\_code => UNIS == error\_code

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each ACL creation.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.
_tagged_fields	The tagged fields
tagged_fields	The tagged fields

# DeleteAcis API (Key: 31):

Deletacic Request (Version: 0) >= [filter:]
filters >= resource, type, filter resource came, filter principal\_filter host\_filter operation permission\_type
resource\_pass\_filter >= TMN
resource\_man\_filter >= NULLME\_STRING
principal\_filter >= NULLME\_STRING
principal\_filter >= NULLME\_STRING
host\_filter >= NULLME\_STRING
operation >= NULLME\_STRING
permission\_type >= NUTH
permission\_type >= NUTH

FIELD	DESCRIPTION
filters	The filters to use when deleting ACLs.
resource_type_filter	The resource type.
resource_name_filter	The resource name.
principal_filter	The principal filter, or null to accept all principals.
hoat filter	The host filter, or null to accept all hosts.
operation	The ACL operation.
permission_type	The permission type.

Deletack: Request (Version: 1) >> [filters]
filters >= resource.type\_filter resource\_mame\_filter pattern\_type\_filter principal\_filter bost\_filter operation permission\_type
resource\_type\_filter >= NUMAE\_STRING

principal\_filter -> NULLABLE\_STRING host\_filter -> NULLABLE\_STRING operation -> INT8 permission type -> INT8

FELD	DESCRIPTION
filters	The filters to use when deleting ACLs.
resource_type_filter	The resource type.
resource_name_filter	The resource name.
pattern, type, filter	The pattern type.
principal_filter	The principal filter, or null to accept all principals.
host, filter	The host filter, or null to accept all hosts.
operation	The ACL operation.
permission type	The permission type.

Deletacis Request (Version: 2)  $\infty$  [filters] TMG\_BUFFER
filter  $\infty$  resource, yope, filter resource, name, filter pattern\_type\_filter principal\_filter host\_filter operation permission\_type TMG\_BUFFER
resource, name\_filter  $\infty$  DMTS\_MOULABLE\_STRING
principal\_filter  $\infty$  CMPSCT\_MOULABLE\_STRING
principal\_filter  $\infty$  TMTS

FELD	DESCRIPTION
fibers	The filters to use when deleting ACLs.
resource_type_filter	The resource type.
resource_name_filter	The resource name.
pattern, type, filter	The pattern type.
principal_filter	The principal filter, or null to accept all principals.
host_filter	The host filter, or null to accept all hosts.
operation	The ACL operation.
permission_type	The permission type.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Deletacis Request (Version: 3)  $\Rightarrow$  [filters] TMG\_RUFFER
filter  $\Rightarrow$  resource, type, filter resource, name, filter pattern\_type\_filter principal\_filter host\_filter operation permission\_type TMG\_RUFFER
resource, name\_filter  $\Rightarrow$  DMTS GONACT\_RULLAME\_STRUMG
pattern\_type\_filter  $\Rightarrow$  DMTS
pattern\_type\_filter  $\Rightarrow$  DMTS
pattern\_type\_filter  $\Rightarrow$  DMTS
pattern\_type\_filter  $\Rightarrow$  DMTS
particle filter  $\Rightarrow$  COMPACT\_RULLAME\_STRUMG
particle filter  $\Rightarrow$  COMPACT\_RULLAME\_STRUMG
particle filter  $\Rightarrow$  COMPACT\_RULLAME\_STRUMG
particle filter  $\Rightarrow$  COMPACT\_RULLAME\_STRUMG
particle filter  $\Rightarrow$  DMTS

FIELD	DESCRIPTION
filters	The filters to use when deleting ACLs.
resource_type_filter	The resource type.
resource_name_filter	The resource name.
pattern_type_filter	The pattern type.
principal_filter	The principal filter, or null to accept all principals.
host_filter	The host filter, or null to accept all hosts.
operation	The ACL operation.
permission_type	The permission type.
_taggad_fields	The tagged fields
_tagged_fields	The tagged fields

## Responses

Deletacin Response (Version: 8) -- throttle time\_ms [filter\_results]
theotite\_time\_ms -- INTEX
titter\_results -- error\_code error\_message [matching\_mcls]
error\_code\_ms\_ms\_mulmais\_TINDG
matching\_mcls -- error\_code error\_message resource\_type resource\_name principal host operation permission\_type
error\_code -- NUTLG
error\_message -- NUTLGHE\_STRING
resource\_type -- NUTLG
error\_message -- NUTLGHE\_STRING
prescre\_ms\_string
error\_code -- STRING
principal -- STRING
host -- STRING
host -- STRING
host -- STRING
poperation -- UTUB
permission\_type -- INTE

DESCRIPTION
The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
The results for each filter.
The error code, or 0 if the filter succeeded.
The error message, or null if the filter succeeded.
The ACLs which matched this filter.
The deletion error code, or 0 if the deletion succeeded.
The deletion error message, or null if the deletion succeed ed.
The ACL resource type.
The ACL resource name.
The ACL principal.
The ACL host.
The ACL operation.
The ACL permission type.

Deleakis Response (Wrizon 1) \$\iff \text{Threfting ine so [filter\_results]} \\
\text{Deleakis Response (Wrizon 1) \$\iff \text{Threfting ine so [filter\_results]} \\
\text{Deleakis Response (Wrizon 1) \$\iff \text{Threfting inetical parts} \\
\text{error\_code} \$\iff \text{DITG} \\
\text{arror\_code} \$\iff \text{DITG} \\
\text{matching\_ris } \$\iff \text{error\_code reror\_message resource\_type resource\_name pattern\_type principal host operation permission\_type \\
\text{error\_code} \$\iff \text{DITG} \\
\text{error\_code} \$\iff \text{Error\_code} \\
\text{error\_code} \$\iff \text{DITG} \\
\text{error\_code} \$\iff \text{DITG} \\
\text{error\_code} \$\iff \text{Error\_code} \\
\text{error\_code} \$\if

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
filter_results	The results for each filter.
error_code	The error code, or 0 if the filter succeeded.
error_message	The error message, or null if the filter succeeded.
matching.octs	The ACLs which matched this filter.
error_code	The deletion error code, or 0 if the deletion succeeded.
eror_message	The deletion error message, or null if the deletion succeeded.
resource_type	The ACL resource type.
resource_name	The ACL resource name.
pattern_type	The ACL resource pattern type.
principal	The ACL principal.
host	The ACL host.
operation	The ACL operation.
permission_type	The ACL permission type.

Deletacis Response (Verzion: 2) so throttle time as [filter\_results] TAG\_RMFFER
throttle time as so DIT22
filter\_results = error\_code error\_message [matching\_acts] TAG\_RMFFER
error\_code = DIT16
error\_message = COMPACT\_MALABLE\_STRING
action\_ents = oren\_code error\_message resource\_type resource\_name pattern\_type principal host operation permission\_type TAG\_RMFFER
error\_code = DIT16
error\_message = COMPACT\_MALABLE\_STRING
resource\_type > DIT18
principal = OCOMPACT\_STRING
pattern\_type > DIT18
principal = COMPACT\_STRING
total = COMPACT\_STRING
total = COMPACT\_STRING
portation\_type > DIT18
permission\_type > DIT18
permission\_type > DIT18

FED         SECORATION           Trottle, jins, jin         Description in Section in which the request was throtted due to a quiete violation, or zero if the request did not violate any quiet.           stage, such         The mentals for each filter           stage, goal         The series code, or of the filter succeeded.           stage, goal         The series code, or will filt the stage coded.           stage, goal         The series code, or will filt the stage coded.           stage, goal         The did not series code, or of if the didton conceeded.           stage, goal         The didton correction, or of if the didton conceeded.
filter_results         The results for each filter.           ent_code         The error code, of of the filter succeeded.           ent_creating         The error message, or and if the lift is succeeded.           matching_ads         The ACLs which matched the filter.           ent_code         The didation entre code, or 0 if the didation succeeded.
entr_code         The error code, or 0 ft the filter succeeded.           entr_messige         The error messige, or mild the filter succeeded.           entrolog, as for         The Ada whiten mestide filts filter.           error, code         The deletion succeeded.
eror_message ror mill the filter succeeded.  matching_sels The ACLE which matched this filter.  eror_code  The ACLE which matched this filter.  The deletion eror code, or 0 if the deletion succeeded.
macking_ads The ACLs which matched this filter.  enrar_code The deletion succeeded.
error_code The deletion error code, or 0 if the deletion succeeded.
error_message The deletion error message, or null if the deletion succeeded.
resours, ype The ACL resource type.
resourse, name.  The ACL resourse name.
pattern, type The ACL resource pattern type.
principal The ACL principal.
host The ACL host.
operation The ACL operation.
permission, type  The ACL permission type.
_usgad_fields
_tagget_fields The tagged fields The tagged fields
_upged_fields

Deletacing Response (Version: 3) -> throttle\_time\_ms [filter\_results] TAG\_REFER
throttle\_time\_ms -> INT2
titter\_results -> correct code or INT8
error\_code -> INT8
er

FELD	DESCRIPTION
throttle_time_ma	The duration in miliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
filter_results	The results for each filter.
error_code	The error code, or 0 if the filter succeeded.
error_message	The error message, or null if the filter succeeded.
matching_acts	The ACLs which matched this filter.
error_code	The deletion error code, or 0 if the deletion succeeded.
error_message	The deletion error message, or null if the deletion succeeded.
resource_type	The ACL resource type.
resource_name	The ACL resource name.
pattern_type	The ACL resource pattern type.
principal	The ACL principal.
host	The ACL host.
operation	The ACL operation.
permission_type	The ACL permission type.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_taggad_fields	The tagged fields

## DescribeConfigs API (Key: 32):

## Renuests:

Describaconfigs Request (Version: 0) → [resources]
resources → resource\_type resource\_name [configuration\_keys]
resource\_type → LNTB
resource\_mame → STRING
configuration\_keys → STRING

FELD	DESCRIPTION
resources	The resources whose configurations we want to describe.
	The resource type.
resource_name	The resource name.
configuration_keys	The configuration keys to list, or null to list all configuration keys.

DescribeConfigs Request (Worsion: 1)  $\infty$  [resources] include synonymic resources  $\infty$  resource type resource name [configuration\_keys] resource\_nyse\_with resource\_nyse\_with resource\_name  $\infty$  STRING configuration\_keys  $\infty$  STRING include\_synonyse\_without New Months, which is a superior of the resource\_name  $\infty$  STRING include\_synonyse\_without New Months, which is a superior of the resource\_name  $\infty$  STRING include\_synonyse\_without New Months, which is a superior of the resource of the resource

FIELD	DESCRIPTION
resources	The resources whose configurations we want to describe.
	The resource type.
resource_name	The resource name.
configuration, keys	The configuration keys to list, or null to list all configuration keys.
include synonyms	True if we should include all synonyms.

FELD	DESCRIPTION
resources	The resources whose configurations we want to describe.
resource_type	The resource type.
resource_name	The resource name.
configuration,lays	The configuration keys to list, or null to list all configuration keys.
include_synonyms	True if we should include all synonyms.

FELD	DESCRIPTION
resources	The resources whose configurations we want to describe.
resource_type	The resource type.
resource_name	The resource name.
configuration_keys	The configuration keys to list, or null to list all configuration keys.
include_syncopyns	True if we should include all synonyms.
Include_documentation	True if we should include configuration documentation.

DescribeConfigs Request (Version: 4)  $\Rightarrow$  [resources] include\_synohyms include\_documentation TAG\_REFER resources  $\Rightarrow$  resource\_type resource\_name [configuration\_leye] TAG\_REFER resource\_name  $\Rightarrow$  CORPACT\_STRING resource\_name  $\Rightarrow$  CORPACT\_STRING resource\_name  $\Rightarrow$  CORPACT\_STRING resource\_name  $\Rightarrow$  SORCAM resource\_name  $\Rightarrow$  SORCAM resource\_name  $\Rightarrow$  SORCAM resource\_name  $\Rightarrow$  SORCAM resource\_name\_name  $\Rightarrow$  SORCAM resource\_name\_name  $\Rightarrow$  SORCAM resource\_name\_name  $\Rightarrow$  SORCAM resource\_name  $\Rightarrow$  SORCAM resourc

FELD	DESCRIPTION
resources	The resources whose configurations we want to describe.
resource_type	The resource type.
resource_name	The resource name.
configuration, keys	The configuration keys to list, or null to list all configuration keys.
_tagged_fields	The tagged fields
Include_synonyms	True if we should include all synonyms.
Include_documentation	True if we should include configuration documentation.
_tagged_fields	The tagged fields

# Response

error\_code >> INTS
error\_message >> MELLARLE\_STRING
error\_message >> MELLARLE\_STRING
error\_message >> DETS
err

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each resource.
error_code	The error code, or 0 if we were able to successfully describe the configurations.
error_message	The error message, or null if we were able to successfully describe the configurations.
resource,type	The resource type.
resource_name	The resource name.
configs	Each listed configuration.
name	The configuration name.
value	The configuration value.
read_only	True if the configuration is read-only.
is_default	True if the configuration is not set.
is_censitive	True if this configuration is sensitive.

DescribeConfigs Response (Version: 1)  $\Rightarrow$  threating\_time\_ms [results]
threating\_time\_ms  $\Rightarrow$  INT22
results  $\Rightarrow$  error\_code error\_mssage resource\_type resource\_name [configs]
error\_code  $\Rightarrow$  INTL\_MARE\_STRING
error\_code\_type  $\Rightarrow$  INTL\_MARE\_STRING
error\_code\_type  $\Rightarrow$  INTL\_MARE\_STRING
error\_code\_type  $\Rightarrow$  INTL\_MARE\_STRING
configs  $\Rightarrow$  name value read\_only\_config\_source is\_sensitive [symonyms]
name  $\Rightarrow$  STRING
value  $\Rightarrow$  MALIAME\_STRING
read\_only  $\Rightarrow$  MODELAN
config\_source  $\Rightarrow$  INTRIG
symonyms  $\Rightarrow$  SHRING
value  $\Rightarrow$  SHRING
value  $\Rightarrow$  MALIAME\_STRING
source  $\Rightarrow$  INTRIG
value  $\Rightarrow$  NAMELANG\_STRING
source  $\Rightarrow$  INTRIG

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each resource.
error_code	The error code, or 0 if we were able to successfully describe the configurations.
error_message	The error massage, or null if we were able to successfully describe the configurations.
resource_type	The resource type.
resource_name	The resource name.
configs	Each listed configuration.
name	The configuration name.
value	The configuration value.
read_only	True if the configuration is read only.
config_source	The configuration source.
is_pansitive	True if this configuration is sensitive.
synonyms	The synonyms for this configuration key.
name	The synonym name.
value	The synonym value.
source	The synonym source.

DescribeConfigs Response (Version: 2) as threttie\_time\_ms [results]

Threttie\_time\_ms as DINT2

results = error\_code error\_message resource\_type resource\_name [configs]

error\_code = DINTS

configs = name value read\_only\_config\_source is\_sensitive [symmoyes]

name = DINTS

value > NULLAMIE\_STRING

read\_only = DOUGLAN

config\_source = DINTS

younges = Anne Value source

younges = STRING

value = DINTS

value = DINTS

value = DINTS

source = DINTS

source = DINTS

FELD	DESCRIPTION
throttle, time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each resource.
error_code	The error code, or 0 if we were able to successfully describe the configurations.
error_message	The error message, or null if we were able to successfully describe the configurations.
resource_type	The resource type.
resource_name	The resource name.
configs	Each listed configuration.
name	The configuration name.
value	The configuration value.
road_only	True if the configuration is read-only.
config_source	The configuration source.
is_sensitive	True if this configuration is sensitive.
sycoryms	The synonyms for this configuration key.
name	The synonym name.
value	The synonym value.
source	The synonym source.

Describedarign Response (Version: 3) --> throttle\_time\_ms [results]

Throttle\_time\_ms --> DETT

THROTTLE\_TIME\_STRING

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each resource.
error_code	The error code, or 0 if we were able to successfully describe the configurations.
eror_message	The error message, or null if we were able to successfully describe the configurations.
resourc_type	The resource type.
resource_name	The resource name.
configs	Each listed configuration.
name	The configuration name.
value	The configuration value.
read_only	True if the configuration is read-only.
config_source	The configuration source.
is_sensitive	True if this configuration is sensitive.
synonyma	The synonyms for this configuration key.
name	The synonym name.
value	The synonym value.
source	The synonym source.
config_type	The configuration data type. Type can be one of the following values - BOOLEAN, STRING, INT, SHORT, LONG, DOUBLE, LIST, CLASS, PASSWORD
documentation	The configuration documentation.

FIELD	DESCRIPTION
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each resource.
error_code	The error code, or 0 if we were able to successfully describe the configurations.
error_message	The error message, or null if we were able to successfully describe the configurations.
resource_type	The resource type.
resource_name	The resource name.
configs	Each listed configuration.
name	The configuration name.
value	The configuration value.
read_only	True if the configuration is read-only.
config_source	The configuration source.
is sensitive	True if this configuration is sensitive.
synonyms	The synonyms for this configuration key.
name	The synonym name.
value	The synonym value.
source	The synonym source.
_tagged_fields	The tagged fields
config_type	The configuration data type. Type can be one of the following values - BOOLEAN STRING, INT, SHORT, LONG, DOUBLE, LIST, CLASS, PASSWORD
documentation	The configuration documentation.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

## AlterConfigs API (Key: 33):

## Requests:

AlterConfige Request (Version: 8) >> [resources] validate\_only resources >> resource.type resource\_name [confige] resource\_type >> XIRN resource\_name >> XIRING confige >> mass value name >> XIRING value >> MULLMES\_STRING values >> MULLMES\_STRING values >> MULLMES\_STRING

FELD	DESCRIPTION
resources	The updates for each resource.
resource_type	Тhе гезоилсе type.
resource_name	The resource name.
configs	The configurations.
name	The configuration key name.
value	The value to set for the configuration key.
validate_only	True if we should validate the request, but not change the configurations.

AlterConfig: Request (Version: 1) -> [resources] validate only resources -> resource type resource name [configs] resource, page -> XTMS resource, name -> XTMLMS configs -> name value name -> XTMLMS configs -> name value name -> XTMLMS configs -> name value -> NAMLME -> XTMLMS configs -> name value -> NAMLME -> XTMLMS configs -> name value -> NAMLME -> XTMLMS configs -> NAMLME -> NAM

FELD	DESCRIPTION
RECOURCES	The updates for each resource.
resource_type	The resource type.
resource_name	The resource name.
configs	The configurations.
name	The configuration key name.
value	The value to set for the configuration key.
validate_only	True if we should validate the request, but not change the configurations.

AlterConfige Request (Version: 2)  $\infty$  [resources] validate\_only TAG\_BUFFER resources  $\infty$  resource type resource\_name (confige) TAG\_BUFFER resource\_name  $\infty$  -DUFF STRING confige  $\infty$  -DUFFER resource\_name  $\infty$  -COPPACT\_STRING confige  $\infty$ -COPPACT\_STRING value  $\infty$ -COPPACT\_STRING value  $\infty$ -COPPACT\_STRING value  $\infty$ -COPPACT\_NULLABLE\_STRING validate\_only  $\infty$ -BORLEAN

FELD	DESCRIPTION
resources	The updates for each resource.
resource_type	The resource type.
resource_name	The resource name.
configs	The configurations.
name	The configuration key name.
value	The value to set for the configuration key.
_tagged_fields	The tagged fields
_magged_fields	The tagged fields
validate_only	True if we should validate the request, but not change the configurations.
_tagged_fields	The tagged fields

# Responses

AlterConfigs Response (Worsion: 0) on throttle\_time\_ms [responses] throttle\_time\_ms on NRIZ
responses o error\_code error\_costage resource\_type resource\_name error\_code on NRIG
error\_nesses\_on MULLAME\_STRING
resource\_type on HILLAME\_STRING
resource\_type on HILLAME\_STRING

FIELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The responses for each resource.
error_code	The resource error code.
error_message	The resource error message, or null if there was no error.
resource_type	The resource type.
resource_name	The isoporce name.

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The responses for each resource.
error_code	The resource error code.
error_message	The resource error message, or null if there was no error.
resource_type	The resource type.
resource_name	The resource name.

responses  $\rightarrow$  error\_code error\_message resource\_type resource\_name TAG\_BUFFER error\_code  $\rightarrow$  DHT16
error\_code  $\rightarrow$  CMPMCT\_MELLABLE\_STRING
resource\_type  $\rightarrow$  DHT8
resource\_type  $\rightarrow$  DHT8

FIELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The responses for each resource.
error_code	The resource error code.
error_message	The resource error message, or null if there was no error.
resource_type	The resource type.
resource_name	The resource name.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

AlterReplicalogBirs Request (Version: 0) -> [dirs]
dirs -> path [topics]
path -> STRING
topics -> name [partitions]
name -> STRING
partitions -> INT32

FELD	DESCRIPTION
des	The alterations to make for each directory.
path	The absolute directory path.
topics	The topics to add to the directory.
nama	The topic name.
partitions	The partition indexes.

AtterReplicalogDirs Request (Version: 1) -> [dirs]
dirs -> path [topics]
path -> STRING
topics -> name [partitions]
name -> STRING
partitions -> JNT32

FELD	DESCRIPTION
dis	The alterations to make for each directory.
path	The absolute directory path.
topics	The topics to add to the directory.
name	The topic name.
partitions	The partition indexes.

AlterPaphicalogDirs Respect (Version: 2)  $\rightarrow$  [dirs] TAG\_BUFFER dirs  $\rightarrow$  path [topics] TAG\_BUFFER although the context STRIMG. topics  $\rightarrow$  mass [partitions] TAG\_BUFFER name  $\sim$  COMPACT\_STRIMG partitions  $\rightarrow$  INT22

FELD	DESCRIPTION
des	The alterations to make for each directory.
path	The absolute directory path.
topics	The topics to add to the directory.
name	The topic name.
partitions	The partition indexes.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each topic.
topic,name	The name of the topic.
partitions	The results for each partition.
partition_index	The partition index.
error code	The error code, or 0 if there was no error.

Attempolicalogues Response (Version: 1) -> throttle\_time\_ms [results]
throttle\_time\_ms => INTEX
travits- > togic\_nems[partitions]
topic\_nems -> STRING
partitions -> STRING
partition\_tode -> URTEX
terro\_code
partition\_tode -> URTEX
terro\_code -> URTEX
terro\_code

FIELD	DESCRIPTION
throttle_time_ma	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each topic.
topic_name	The name of the topic.
partitions	The results for each partition.
partition, index	The partition index:
error_code	The error code, or 0 if there was no error.

FIELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for each topic.
topic_name	The name of the topic.
partitions	The results for each partition.
partition_index	The partition index.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

FELD	DESCRIPTION
topics	Each topic that we want to describe log directories for, or null for all topics.
topic	The topic name
partitions	The partition indexes.

Select | Bide | Gelete | Hide Except | Oglete Except | Bornat | Sext | Grado | Grado All | Sage | Tag Pieces | View More | Web Saje | Everien | Cons Print Edit WE Tools Help FIELD
topics
topic
partitions DESCRIPTION

Each topic that we want to describe log directories for, or null for all topics DescribelogDirs Request (Version: 2)  $\Rightarrow$  [topics] TAG\_BUFFER topics  $\Rightarrow$  topic [partitions] TAG\_BUFFER topic  $\Rightarrow$  COMPACT\_STRING partitions  $\Rightarrow$  INT32 FIELD
topics
topic
partitions
\_tagged\_fields
\_tagged\_fields DESCRIPTION

Each topic that we want to describe log directories for, or null for all topics.

The topic name

The partition indexes.

DescribeLogDirs Request (Version: 3)  $\Rightarrow$  [topics] TAG\_BUFFER topics  $\Rightarrow$  topic [partitions] TAG\_BUFFER topic  $\Rightarrow$  COMPACT\_STRING partitions  $\Rightarrow$  INT32

FIELD topics topic DESCRIPTION Each topic that we want The topic name The partition index \_tagged\_fields \_tagged\_fields

The tagged fields

DescribeLogDirs Request (Version: 4) → [topics] TAG\_BUFFER topics → topic [partitions] TAG\_BUFFER topic → COMPACT\_STRING partitions → IMT32

FIELD
topics
topic
partitions
\_tagged\_fields
\_tagged\_fields DESCRIPTION

Each topic that we want to describe log directories for, or null for all topics. The topic name
The partition indexes
The tagged fields
The tagged fields

Describitophirs Response (Vertion: 0) -- throttle\_time\_ms [results]
throttle\_time\_ms -- BITIS

entering\_code =- throttle\_time\_ms [results]
entering\_code =- bITIS

top\_cir -- NTRING

top\_cir -- NTRING

partitions >- partition\_index partition\_size offset\_lag is\_fut
partition\_index -- DITIS

partition\_size -- bITIS

partition\_size -- bITIS

offset\_lag -- bITIS

foffset\_lag -- bITIS

is\_future\_key --- BOOLEAN ion\_size offset\_lag is\_future\_key

FIELD throttle\_time\_ms DESCRIPTION

The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota. throttle\_time\_
results
error\_code
log\_dir
topics
name
partitions
partition\_index
partition\_size
offset lan The log directories.

The error code, or 0 if there The absolute log directory path.

Each topic.

The topic name. The size of the log segments in this partition in bytes.

The lag of the log's LED w.r.t. partition's HW (if it is the current log for the partition) or current replicals LED (if it is the future log for the partition). offset\_lag True if this log is created by AlterReplicaLogDirsRequest and will replace the current log of the replica in the future.

Describelophirs Response (Version: 1) as threttle\_time\_ms [results]
threttle\_time\_ms = JUTE2
threttle\_time\_ms = JUTE2
error\_code to\_dim[teptcs]
error\_code > JUTE5
tog\_dir > STRING
tog\_dir > STRING
topics > name [partitions]
name > STRING
partitions > DATE4
partition = STRING
tofstet\_lag > JUTE4
ts\_future\_lay > BOOLEAN

FIELD throttle\_time\_ms results DESCRIPTION

The duration in miliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota The log directories. results
error\_code
log\_dir
topics
name
partitions
partition\_index
partition\_size The error code, or 0 if there was no error
The absolute log directory path. Each topic. The topic name. The size of the log segments in this partition in bytes. The lag of the log's LEO wet, particular in logical. The lag of the log's LEO wet, particular log for the partition) or current replica's LEO (if it is the future log for the partition).

Thus if this log is created by AlterReplical coghtrisRequest and will replace the current log of the replica in the future. offset\_lag

OsscribelopDirs Response (Wersins: 2) => throutile\_time\_ms [results] TAG\_RUFFER
throutile\_time\_ms => INTEX

results == error, code log\_dir (tepsics) TAG\_RUFFER
error\_code >> INTES

topics >> comes [partitions] TAG\_RUFFER
same >> COMPACT\_STRING
partitions >> partition\_index partition\_size offset\_log\_dis\_future\_key TAG\_RUFFER
partitions => partition\_index partition\_size offset\_log\_is\_future\_key TAG\_RUFFER
partition\_time >> INTEA

offset\_log >> INTEA

is\_future\_key >> ROOLEAN

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The log directories.
error_code	The error code, or 0 if there was no error.
log_dir	The absolute log directory path.
topics	Each topic.
name	The topic name.
partitions	
partition_index	The partition index.
partition_size	The size of the log segments in this partition in bytes.
offset Jag	The lag of the logis LEO w.r.t. partition's HW (if it is the current log for the partition) or current replicals LEO (if it is the future log for the partition)
is_futuro_key	True if this log is created by AlterReplicaLogDirsRequest and will replace the current log of the replica in the future.
_tagged_fields	The tagged fields
Jagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Describatiophirs Response (Version: 3) -> throttle\_time\_ms error\_code [results] TAG\_REFER throttle\_time\_ms -> INTEX throttle\_time\_ms -> INTEX results -> error\_code to\_gint[opics] TAG\_REFER error\_code -> UNTEX to\_gint -> COMPACT\_STRIME to\_gint -> COMPACT\_STRIME topics -> near\_code to\_gintlions] TAG\_REFER near=> COMPACT\_STRIME partition => partition\_time\_pa

PIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
results	The log directories.
error_code	The error code, or 0 if there was no error.
log_dir	The absolute log directory path.
topics	Each topic.
name	The topic name.
partitions	
partition_index	The partition index.
partition_size	The size of the log segments in this partition in tyses.
offset Jag	The lag of the logs LEO w.r.t. partition's HW (if it is the current log for the partition) or current replica's LEO (if it is the future log for the partition)
is_future_key	True if this log is created by AlterReplicaLogDirsRequest and will replace the current log of the replica in the future.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
Jagged_fields	The tagged fields
_tagged_fields	The tagged fields

DescribeLogDI:s Response (Version: 4)  $\Rightarrow$  throttle\_time\_ms error\_code [results] TAG\_REFER threttle\_time\_ms  $\Rightarrow$  NNT2 error\_code  $\Rightarrow$  NNT6 error\_code  $\Rightarrow$  NNT6 error\_code  $\Rightarrow$  NNT6 log\_dir  $\Rightarrow$  Compact\_STAG\_REFER error\_code  $\Rightarrow$  NNT6 log\_dir  $\Rightarrow$  Compact\_STAG\_REFER topics  $\Rightarrow$  name  $\Rightarrow$  COMPACT\_STAG\_REFER partitions  $\Rightarrow$  partition\_index partition\_time effect [lag is\_future\_key\_TAG\_REFER partition\_time  $\Rightarrow$  NNT64 error\_code  $\Rightarrow$  NNT64 log\_time\_ms  $\Rightarrow$  NNT64  $\Rightarrow$  NNT64 log\_time\_ms  $\Rightarrow$  NNT64 error\_code  $\Rightarrow$  NNT65 error\_code  $\Rightarrow$  NNT65 error\_code  $\Rightarrow$  NNT66 error\_code  $\Rightarrow$  NNT67 error\_code  $\Rightarrow$  NNT67 error\_code  $\Rightarrow$  NNT68 error\_code  $\Rightarrow$ 

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
results	The log directories.
error_code	The error code, or 0 if there was no error.
log,dir	The absolute log directory path.
topics	Each topic.
name	The topic name.
partitions	
partition_index	The partition index.
partition_size	The size of the log segments in this partition in bytes.
offset Jag	The lag of the logs LEO w.r.t. partition's HW (if it is the current log for the partition) or current replicals LEO (if it is the future log for the partition)
is_future_key	True if this log is created by AlterReplicaLogDirsRequest and will replace the current log of the replica in the future.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
total_bytes	The total size in bytes of the volume the log directory is in.
usable_bytes	The usable size in bytes of the volume the log directory is in.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

SaslAuthenticate Request (Version: θ) -> auth\_bytes auth\_bytes -> BYTES

FIELD	DESCRIPTION
auth_bytes	The SASL authentication bytes from the client, as defined by the SASL mechanism.

FELD	DESCRIPTION
auth_bytes	The SASL authentication bytes from the client, as defined by the SASL mechanism.

SaslAuthenticate Request (Version: 2) -> auth\_bytes TAG\_BUFFER auth\_bytes -> COMPACT\_BYTES

FIELD	DESCRIPTION
auth_bytes	The SASL authentication bytes from the client, as defined by the SASL mechanism.
tanned fields	The tanned fields

SatUnthenticate Response (Version: 8)  $\rightarrow$  error\_code error\_message auth\_bytes error\_code  $\rightarrow$  DRTES error\_message  $\rightarrow$  UNLLUREE\_STEING auth\_bytes  $\rightarrow$  BVTES

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
error_message	The error massage, or null if there was no error.
auth_bytes	The SASL authentication bytes from the server, as defined by the SASL mechanism.

Satishthenticate Response (Version: 1)  $\infty$  error\_code error\_message auth\_bytes session\_lifetime\_as error\_code  $\infty$  NTIG error\_message auth\_bytes session\_lifetime\_as entry descape  $\infty$  NULLAME\_SITING session\_lifetime\_as  $\infty$  NTIG

PRELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
auth_bytes	The SASL authentication bytes from the server, as defined by the SASL mechanism.
session_lifetime_ms	Number of milliseconds after which only re-authentication over the existing connection to create a new session can occur.

SasiAuthenticate Response (Version: 2)  $\sim$  error\_code error\_message auth\_bytes session\_lifetime\_ms TMG\_BUFFER
error\_code  $\sim$  INTIG
error\_message  $\sim$  COMPACT\_MULLBBLE\_STRING
auth\_bytes  $\sim$  COMPACT\_BUFFES
session\_lifetime\_ms  $\sim$  10TG4

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
error_message	The error message, or null if there was no error.
auth_bytes	The SASL authentication bytes from the server, as defined by the SASL mechanism.
session_lifetime_ms	Number of milliseconds after which only re-authentication over the existing connection to create a new session can occur.
_tagged_fields	The tagged fields

CreateFartitions Request (Version: 0)  $\Rightarrow$  [topics] timeout\_ms validate\_only topics  $\Rightarrow$  name count [assignments] name  $\Rightarrow$  STRMIC count  $\Rightarrow$  NTMIC count  $\Rightarrow$  NTMIC count  $\Rightarrow$  NTMIC  $\Rightarrow$  NTMIC

FELD	DESCRIPTION
topics	Each topic that we want to create new partitions inside.
name	The topic name.
count	The new partition count.
assignments	The new partition assignments.
broker_ids	The assigned broker IDs.
timeout_ms	The time in ms to wait for the partitions to be created.

CreatePartitions Request [Version: 1) ⇒ [topics] timeout\_ms validate\_only topics ⇒ name count [assignments] name ⇒ STRML count → INT2 assignments > [Greker\_ids] ⇒ assignments → [Greker\_ids] ⇒ INT2 timeout\_ms → INT2 validate\_only ⇒ BOOLEAN

FELD	DESCRIPTION
topics	Each topic that we want to create new partitions inside.
name	The topic name.
count	The new partition count.
assignments	The new partition assignments.
broker_ids	The assigned broker IOs.
timeout_ms	The time in ms to wait for the partitions to be created.
validate_only	If true, then validate the request, but don't actually increase the number of partitions.

CreatePartitions Request (Version: 2) >> [topics] timeout\_ms validate\_only TMG\_REFFER topics >> name count[saignments] TMG\_REFFER name >> COMPACT\_STRING count >> INTIZ
saignments >> [broker\_ids] TMG\_REFFER broker\_ids] >> INTIZ
timeout\_ms >> INTIZ
validate\_only >> RODILEN

FELD	DESCRIPTION
topics	Each topic that we want to create new partitions inside.
name	The topic name.
count	The new partition count.
assignments	The new partition assignments.
broker_ids	The assigned broker IDs.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
timeout, ms	The time in ms to wait for the partitions to be created.
validate_only	If true, then validate the request, but don't actually increase the number of partitions.
_tagged_fields	The tagged fields

CreatePartitions Request (Version: 2) -> [topics] timeout\_ms validate\_only TMG\_ROFFER topics -> name count[assignments] TMG\_ROFFER name -> COMPACT\_STRING count -> LUTT2 co

FELD	DESCRIPTION
topics	Each topic that we want to create new partitions inside.
name	The topic name.
count	The new partition count.
assignments	The new partition assignments.
broker_ids	The assigned broker IDs.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
timeout, ms	The time in ms to wait for the partitions to be created.
validate_only	If true, then validate the request, but don't actually increase the number of partitions.
_taggad_fields	The tagged fields

## Responses:

CreatePartitions Response (Version: 8) \$\iftersite\_time\_ms [results] throttle\_time\_ms = \text{Iresults} \]
throttle\_time\_ms \$\iftersite\_time\_ms = \text{Iresults} \in \text{American error\_code error\_message} \]
ana \$\iftersite\_time\_ms = \text{Iresults} \]
error\_code \$\in \text{Iris} \]
error\_code \$\in \text{Iris} \]
error\_code \$\in \text{Iris} \]

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The partition creation results for each topic.
name	The topic name.
error_code	The result error, or zero if there was no error.
error message	The result message or null if there was no error.

Crast@artitions Response (Version: 1) as threattle\_time\_ms [results] threattle\_time\_ms as DITES threattle\_time\_ms arror\_code error\_mscasage amms STRIMS error\_code as INTINS error\_mscase as MILDER\_STRING

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The partition creation results for each topic.
name	The topic name.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.

CrastePartitions Response (Version: 2) -- throttle\_time\_ms [results] TAG\_RUFFER throttle\_time\_ms -- 10722 throttle\_time\_ms -- 10722 throttle\_time\_ms -- 10722 throttle\_time\_ms -- 10794CT\_STRUG case -- COPPACT\_STRUG -- 10716CT\_STRUG -- 10716CT\_ST

FIELD	DESCRIPTION
throttle_time_mz	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The partition creation results for each topic.
name	The topic name.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.
_tagged_fields	The tagged fields
_taggad_fields	The tagged fields

CreatePartitions Response (Version: 3)  $\Rightarrow$  throttle\_time\_ms [results] TAG\_RUFFER throttle\_time\_ms  $\Rightarrow$  NTIZ results  $\rightarrow$  name corr\_message TAG\_RUFFER name  $\Rightarrow$  CUMPACT\_STRIME reror\_message TAG\_RUFFER or TAG\_RUFFER NTIAG reror\_message  $\Rightarrow$  CUMPACT\_MULHABLE\_STRING

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The partition creation results for each topic.
name	The topic name.
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.
_tagged_fields	The tagged fields
_magged_fields	The tagged fields

# CreateDelegationToken API (Key: 38)

# Requests:

CreatedelegationToken Request (Wersion: 0) → [removers] max\_Lifetize\_ss
removers → principal\_type principal\_name
principal\_type → STRING
principal\_mase → STRING
max\_Lifetize\_ss → MINEM

FELD	DESCRIPTION
runtewers	A list of those who are allowed to renew this token before it expires.
principal_type	The type of the Kafka principal.
principal_name	The name of the Kafka principal.

CreateDelegationToken Request (Version: 1)  $\Rightarrow$  [renewers] max\_lifetime\_ms renewers  $\Rightarrow$  principal\_type principal\_mame principal\_mame  $\Rightarrow$  STRIMG max\_lifetime\_ms  $\Rightarrow$  STRIMG max\_lifetime\_ms  $\Rightarrow$  STRIMG max\_lifetime\_ms  $\Rightarrow$  STRIMG

FIELD	DESCRIPTION
Total words	A list of those who are allowed to renew this token before it expires.
principal_type	The type of the Kafka principal.
principal_name	The name of the Kafka principal.
max_lifetime_ms	The maximum lifetime of the token in milliseconds, or -1 to use the server side default.

CreatebelopationToken Request (Version: 2)  $\rightarrow$  [renewers] max\_lifetime\_ms TAG\_REFER renewers  $\rightarrow$  principal\_type principal\_name TaG\_REFER principal\_type  $\rightarrow$  compact\_STANDS principal\_type  $\rightarrow$  compact\_STANDS max\_lifetime\_ms  $\rightarrow$  DEFER  $\rightarrow$  DEFER DEFER  $\rightarrow$  DEFER  $\rightarrow$  DEFER D

FELD	DESCRIPTION
ronewors	A list of those who are allowed to renew this token before it expires.
principal_type	The type of the Kafka principal.
principal_name	The name of the Kafka principal.
_tagged_fields	The tagged fields
max_lifetime_ms	The maximum lifetime of the token in milliseconds, or -1 to use the server side default.
_tagged_fields	The tagged fields

CreateDelopationToken Request (Version: 3) -- nomer\_principal\_type owner\_principal\_name (renowers) max\_lifetime\_ms TAG\_MUFFER
owner\_principal\_type -- COMPACT\_MOLDER\_STRING
owner\_principal\_type -- COMPACT\_MOLDER\_STRING
renowers -- principal\_type principal\_name TAG\_BUFFER
principal\_type -- COMPACT\_STRING
principal\_type -- COMPACT\_STRING
ms. Lifetime\_ms -- DIME4

FIELD	DESCRIPTION
owner_principal_type	The principal type of the owner of the token. If it's null it defaults to the token request principal.
owner_principal_name	The principal name of the owner of the token. If it's null it defaults to the token request principal.
renewers	A list of those who are allowed to renew this token before it expires.
principal_type	The type of the Kafka principal.
principal_name	The name of the Kafka principal.
_tagged_fields	The tagged fields
max_ffetime_ms	The maximum lifetime of the token in milliseconds, or -1 to use the server side default.
_tagged_fields	The tagged fields

CreateOdlepiisTokem Response (Version: 0)  $\rightarrow$  error\_code principal\_type principal\_name issue\_timestamp\_ms empiry\_timestamp\_ms max\_timestamp\_ms taken\_id hear threttle\_time\_ms
creat\_code  $\rightarrow$  DTTMS
principal\_type  $\rightarrow$  STRING
issue\_timestamp\_ms  $\rightarrow$  STRING
issue\_timestamp\_ms  $\rightarrow$  STRING
issue\_timestamp\_ms  $\rightarrow$  DTMS
and\_timestamp\_ms  $\rightarrow$  DTMS
token\_timestamp\_ms  $\rightarrow$  DTMS
threat-ms TTS
threttie\_time\_ms  $\rightarrow$  DTMS

FELD	DESCRIPTION
error_code	The top-level error, or zero if there was no error.
principal_type	The principal type of the token owner.
principal_name	The name of the token owner.
Issue, timestamp_ms	When this token was generated.
expiry_timestamp_ms	When this token expires.
max_timestamp_ms	The maximum lifetime of this token.
token_id	The token UUID.
hmac	HMAC of the delegation token.
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

The crassocleopationTodam Response (Version: 1)  $\rightarrow$  error\_code principal\_type principal\_name issue\_limestamp\_ms employ\_timestamp\_ms max\_timestamp\_ms ms\_timestamp\_ms\_timestamp\_ms\_timesta

FIELD	DESCRIPTION
error_code	The top-level error, or zero if there was no error.
principal_type	The principal type of the token owner.
principal_name	The name of the token owner.
issue, timestamp_ms	When this token was generated.
expiry_timestamp_ms	When this token expires.
max_timestamp_ms	The maximum lifetime of this token.
tokan jd	The token UUID.
hmac	HIMAC of the delegation token.
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

FELD	DESCRIPTION
error_code	The top-level error, or zero if there was no error.
principal_type	The principal type of the token owner.
principal_name	The name of the token owner.
issue_timestamp_ms	When this token was generated.
expiry_timestamp_ms	When this token expires.
max_timestamp_ms	The maximum lifetime of this token.
token_id	The token UUID.
hmac	HMAC of the delegation token.
throttle_time_ms	The duration in milliseconds for which the request was throttied due to a quota violation, or zero if the request did not violate any quota.
_tagged_fields	The tagged fields

TreatdelegationToken Response (Version: 3)  $\infty$  error\_code principal\_type principal\_name token\_requester\_principal\_type token\_requester\_principal\_name issue\_timestame\_ms\_es\_ear\_timestame\_ms\_ear\_

FIELD	DESCRIPTION	
error_code	The top-level error, or zero if there was no error.	
principal.type	The principal type of the token owner.	
principal_name	The name of the token owner.	
token_requester_principal_type	The principal type of the requester of the token.	
token_requester_principal_name	The principal type of the requester of the token.	
Issue_timestamp_ms	When this token was generated.	
expiry_timestamp_ms	When this token expires.	
max_timestamp_ms	The maximum lifetime of this token.	
token_id	The token UUID.	

Splec   Ugle   Pape   Agle Coope   Ogles Coope   Demoi   Dee   Ugle   Ugle Ad   Sage   Tog Picce   View More   Ugle Sple   Demoi   Coope   Demoi   Dem	Print Edit WE HMAC of the delegation token.	Tgol
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.	
tagged_fields	The tagged fields	
newDelegationToken API (Key: 39):		
RemembelecationToken Request (Version: 0) => haze remew period ms		
RenewDelogationToken Request (Version: 0) -> hmac renew_period_ms hmac -> BYTES renew_period_ms -> INT64		
renew_perlod_ds -> 1N164		
FELD	DESCRIPTION	
hmac renew_period_ms	The HMAC of the delegation taken to be renewed.  The moveval time period in milliseconds.	
RemedelopationToken Request (Version: 1) $\infty$ has remow_period_ms has $\sim$ BTTES remow_period_ms $\times$ BTTE4		
FELD	DESCRIPTION	
hmac	The HMAC of the delegation token to be renewed.	
nenew_period_ms	The renewal time period in milliseconds.	
RemodeleptionToken Request (Version: 2) $\infty$ has renew_period_ms TAG_REFER has $\infty$ COMPACT of the renew_period_ms $\infty$ INTEG		
PELD	DESCRIPTION	
hmac renew_perfod_ms	The HMAC of the delegation taken to be renewed.  The renewal time period in milliseconds.	
_tagged_fields	The tagged fields	
asponses:		
RemembelopationToken Response (Version: 0) $\Rightarrow$ error_code expiry_timestamp_ms throttle_time_ms error_code $\Rightarrow$ NNT4 expiry_timestamp_ms $\Rightarrow$ NNT4 throttle_time_ms $\Rightarrow$ NNT42		
FELD	DESCRIPTION	
error_code	The error code, or 0 if there was no error.	
ospily, timestamp, ms throttle, time, ms	The timestamp in milliseconds at which this below expires.  The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.	
	Ine dutation in milliseconds for which the request was throttee due to a guota violation, or zero if the request do not violate any guota.	
RenceDeleptionTokum Response (Verzion: 1) $\Rightarrow$ error_code expiry_timestamp_ms throttle_time_ms error_code $\Rightarrow$ NNT16 expiry_timestamp_ms $\Rightarrow$ NNT64 throttle_time_ms $\Rightarrow$ NNT24		
FIELD	DESCRIPTION	
error_code	The error code, or 0 if there was no error.	
expiry_timestamp_ms throttle_time_ms	The timestamp in milliseconds at which this token expires.  The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.	
RenoelogationToken Response; (Perion: 2) → error_code expiry_timestamp_ms throttle_time_ms TAG_BEFFER erpirtimestamp_ms → INTE http://imestamp.ms → INTE FEELD FEED FEE	DESCRIPTION .	
error_code		
	The error code, or 0 if there was no error.	
	The timestamp in milliseconds at which this token expires.	
throttle_time_ms		
egopy_Investing_rins fronting_text_rin fronting_text_rin specification_text_rin specificati	The timesturing in milliseconds at which this base segies.  The duration in milliseconds for which the request was thrested due to a quota violation, or zero if the request did not violate any quota.	
throntin_priss_msspeci_fieldspopulation_priss_mspopulatio	The timesturing in milliseconds at which this base segies.  The duration in milliseconds for which the request was thrested due to a quota violation, or zero if the request did not violate any quota.	
throsts_sma_ma SuppinGelegationToken API (May: 40): Acquests  ExpireCelegationToken Request (Version: 0) → hanc expiry_time_period_ms hanc ← SPTES  copiry_time_period_ms → INTE4	The timesturing in milliseconds at which this base segies.  The duration in milliseconds for which the request was thrested due to a quota violation, or zero if the request did not violate any quota.	
thouse, sma_ms impostCelegationTaken API (Neyr 40): Mexants  EquiveCelegationTaken Request (Version: 8) → hase empiry_time_period_ms hase ~ BFTES equiveCelegationTaken Request (Version: 8) → hase empiry_time_period_ms hase ~ BFTES  FELD hase	The direction in milliseconds for which this token expires  The direction in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.  The bagged fields  DECORPTION  The MANG of the delegation token to be expired.	
fronte_pine_mu Lapped_folds Lapped_folds Lapped_folds_colored Lapped_fol	The direction pin milliseconds at which this taken engines  The direction milliseconds for which the request was throttled due to a quotia volation, or zero if the request did not volatio any quota.  The tapped fields  DESCRIPTION	
Brottle, Tenz, Jes Lipped, Delete State Control of State	The desiration is milliseconds at which this token expires The distration in milliseconds for which the request was throated due to a quote violation, or zero if the request did not violate any quota. The tagged fields  DESCRIPTION The HEACH of the designation taken to be expired. The expiry time period in milliseconds.	
thorsts_mar_ms  superchelogationToken API (Noy-40):  superchelogationToken API (Noy-40):  superchelogationToken Request (Version: 0) → hasc expiry_time_period_ms  hasc → BPTES  superchelogationToken Request (Version: 1) → hasc expiry_time_period_ms  superchelogationToken Request (Version: 1) → hasc expiry_time_period_ms  Reprinch(spirionToken Request (Version: 1) → hasc expiry_time_period_ms  hasc → BPTES  superchelogationToken Request (Version: 1) → hasc expiry_time_period_ms	The distration is milliseconds or which this token expires  The distration is milliseconds for which the request was threated due to a quota violation, or zero if the request did not violate any quota.  The topper fields  PEECORPTICM  The ADMC of the delegation token to be expired.  The expiry time part of is milliseconds.	
Thorsis_Tea_Jus  Legical Colors  Expirable Expirable Expirable APM (Noy-40):  Expirable Expirabl	The desiration is milliseconds at which this token expires The distration in milliseconds for which the request was throated due to a quote violation, or zero if the request did not violate any quota. The tagged fields  DESCRIPTION The HEACH of the designation taken to be expired. The expiry time period in milliseconds.	
Through Inner Jan  LepindelegationToken API (May 40):  ExpindelegationToken Request (Version: 0) -> hanc expiry_time_period_ms  hanc -> BTTES  expiry_time_period_ms -> INT64  ExpindelegationToken Request (Version: 1) -> hanc expiry_time_period_ms  ExpiratelegationToken Request (Version: 1) -> hanc expiry_time_period_ms  bask -> BTTES  expiry_time_period_ms -> INT64	The duration in milliseconds at which this taken organis  The duration in milliseconds for which the request was throttled due to a quote volation, or zero if the request did not volatio any quote.  The tapped facts  DESCRIPTION  The MANUE of the delegation taken to be expired.  The expirit time part of in milliseconds.	
houts_tma_ns  importchespationToken API (Nory 40):  importchespationToken Request (Version: 0) -> hanc empiry_time_period_ms  importchespationToken Request (Version: 0) -> hanc empiry_time_period_ms  importchespationToken Request (Version: 0) -> hanc empiry_time_period_ms  importchespationToken Request (Version: 1) -> hanc empiry_time_period_ms  importchespationToken Request (Version: 1) -> hanc empiry_time_period_ms  importchespationToken Request (Version: 1) -> hanc empiry_time_period_ms  importchespationToken Request (Version: 2) -> hanc empiry_time_period_ms TAG_REFFER  impace COMPACT_STITES  importchespationToken Request (Version: 2) -> hanc empiry_time_period_ms TAG_REFFER  impace COMPACT_STITES  importchespationToken Request (Version: 2) -> hanc empiry_time_period_ms TAG_REFFER  impace COMPACT_STITES  importchespationToken Request (Version: 2) -> hanc empiry_time_period_ms TAG_REFFER  impace COMPACT_STITES  importchespationToken Request (Version: 2) -> hanc empiry_time_period_ms TAG_REFFER  importchespationToken Request (Ver	The duration in milliseconds at which this taken organis  The duration in milliseconds for which the request was throttled due to a quote volation, or zero if the request did not volatio any quote.  The tapped facts  DESCRIPTION  The MANUE of the delegation taken to be expired.  The expirit time part of in milliseconds.	
The comparison of the comparis	The streets are just milliseconds at which this token engines  The distration in milliseconds for which the request was throated due to a quote violation, or zero if the request did not violate any quota.  The tagged fields  DESCRIPTION  The HARC of the delegation token to be expired.  The expiry time period in milliseconds.  DESCRIPTION  The HARC of the delegation token to be expired.  The expirit time period in milliseconds.	
Through Time June  Through Community  Through Commu	The duration in milliseconds at which this taken regimes  The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violatia any quota.  The support fields  DESCRIPTION  The MANUT of the delegation taken to be expired.  The varying time period in milliseconds.  DESCRIPTION  The AMAC of the delegation taken to be expired.  The varying time period in milliseconds.	
Thords, Tema, Jes  Legand. Mode  Expanded Legand. The AFT (Nory 40):  EXPLICATION OF AFT (Nory 40):  Expanded Legand. The AFT (Nory 40):  Expanded Legand. The AFT (Nory 40):  EXPLICATION OF AFT (Nory 40):  Expanded Legand. The	The duration in milliseconds at which this taken organis  The duration in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quote.  The tapped fields  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.	
Thords, Tema, Jes  Legand. Mode  Expanded Legand. The AFT (Nory 40):  EXPLICATION OF AFT (Nory 40):  Expanded Legand. The AFT (Nory 40):  Expanded Legand. The AFT (Nory 40):  EXPLICATION OF AFT (Nory 40):  Expanded Legand. The	The duration in milliseconds at which this taken organis  The duration in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quote.  The tapped fields  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.	
thouts, time_nis tapped-begintenTaken Request (Version: 0)> heac expiry_time_period_ms  ExpirabelopationTaken Request (Version: 0)> heac expiry_time_period_ms  PRED  PRED  TRED  TR	The duration in milliseconds at which this taken organis  The duration in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quote.  The tapped fields  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.  DESCRIPTION  The MANUE of the delegation token to be expired.  The expirit time pand in milliseconds.	
### Description of the Company of t	The distraction on milliseconds at which this token engines  The distraction immilliseconds for which the request was throttled due to a quota violation, or zero if the request did not violatia any quota.  The tapped fields  DESCRIPTION  The MANC of the adequation token to be exprese.  The epily time period is milliseconds.  DESCRIPTION  The MANC of the adequation token to be exprese.  The epily time period is milliseconds.  DESCRIPTION  The MANC of the adequation token to be exprese.  The steply time period is milliseconds.  DESCRIPTION  The MANC of the adequation token to be exprese.  The tapped fields  DESCRIPTION  The tapped fields  DESCRIPTION  The tapped fields  DESCRIPTION  The tapped fields  DESCRIPTION  The tapped fields	
thords, Teach principles and the principles are all the principles and the principles and the principles are all the principles and the principles are all the p	The duration in milliseconds at which this taken organis  The duration in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quote.  The tapped fields  DESCRIPTION  The MANG of the delegation bear to be expired.  The expirit time period in milliseconds.  DESCRIPTION  The MANG of the delegation bear to be expired.  The expirit time period in milliseconds.  DESCRIPTION  The MANG of the delegation bear to be expired.  The expirit time period in milliseconds.  DESCRIPTION  The MANG of the delegation bear to be expired.  The expirit time period in milliseconds.  DESCRIPTION  The MANG of the delegation bear to be expired.  The spirit time period in milliseconds.  The spirit time period in milliseconds.  The bapped fields  DESCRIPTION  The bapped fields	
Drotte, Jane, Jane  Drotte, Jane, Jane, Jane  Drotte, Jane, J	The streetwarp in milliseconds at which this token regime.  The support fields  DESCRIPTION  The support fields  DESCRIPTION  The streetwarp in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quota.  The streetwarp in milliseconds.  The apply time period in milliseconds.  DESCRIPTION  The streetwarp in milliseconds.  DESCRIPTION  The apply time period in milliseconds.  DESCRIPTION  The streetwarp in milliseconds.  The support fined adequation taken to be expired.  The apply time period in milliseconds.  DESCRIPTION  The streetwarp in milliseconds.  The support fined was no answ.  The street code, or if these was no ensw.  The streetwarp in milliseconds at which this staten expires.	
Double, Sma_ns	The streetwarp in milliseconds at which this token regime.  The support fields  DESCRIPTION  The support fields  DESCRIPTION  The streetwarp in milliseconds for which the request was throttled due to a quote violation, or zero if the request did not violate any quota.  The streetwarp in milliseconds.  The apply time period in milliseconds.  DESCRIPTION  The streetwarp in milliseconds.  DESCRIPTION  The apply time period in milliseconds.  DESCRIPTION  The streetwarp in milliseconds.  The support fined adequation taken to be expired.  The apply time period in milliseconds.  DESCRIPTION  The streetwarp in milliseconds.  The support fined was no answ.  The street code, or if these was no ensw.  The streetwarp in milliseconds at which this staten expires.	
Deput. Name. June  Expanded to STTE  Expanded June  Expanded Agent (Version: 0) ~ hanc expiry_time_period_ms  Expanded June  Expanded Agent (Version: 1) ~ hanc expiry_time_period_ms  Expanded June  Expanded June  Expanded Agent (Version: 2) ~ hanc expiry_time_period_ms  Expanded June  Expan	The duration is milliseconds for which this token regime.  The duration is millisecond for which the request was throttled due to a quota violation, or zero if the request and not violate any quota.  The support fields  DESCRIPTION  The support fields  DESCRIPTION  DESCRIPTION  The apply time period is milliseconds.  DESCRIPTION  The support field price period is milliseconds.  DESCRIPTION  The support field price period is milliseconds.  DESCRIPTION  DESCRIPTION  The support field price period is milliseconds.  DESCRIPTION  The support field price period is milliseconds.  DESCRIPTION  The support field price period is milliseconds.  The support field is milliseconds.  The support fields  DESCRIPTION  DESCRIPTION  The support fields  DESCRIPTION  The support fields  DESCRIPTION  The support fields  DESCRIPTION  The support fields  DESCRIPTION  The support fields is which this token expires.  The support field price was no enter.	
The principle of the pr	The street large or milliseconds at which this token regimes.  The stagest fields  PELECORPTICAL  The support fields  PELECORPTICAL  The region field and elegation token to be expired.  The region fire period in milliseconds.  PELECORPTICAL  SELECORPTICAL  The expirit time period in milliseconds.  PELECORPTICAL  SELECORPTICAL  SELECOR	

# FIELD FI

DescribeDelegationToken Request (Version: 0) -> [owners]
owners -> principal\_type principal\_name
original\_type -> STRIMG

ſ	SIG D	DESCRIPTION	
	principal_name => STRING		
	owners -> principal type principal name principal type -> STRING principal name -> STRING		
	owners -> principal_type principal_name		

DESCRIPTION

The error code, or 0 if there was no error.

The stresstamp in milliseconds at which the taken expires.

The duration in milliseconds for which the request was throatfed due to a quote violation, or zero if the request did not violate any quote.

The duration in milliseconds for which the request was throatfed due to a quote violation, or zero if the request did not violate any quote.

The tagged fields

Each owner that we want to describe delegation tokens for, or null to describe all tokens.

DescribeDelegationToken Request (Version: 1) -> [owners]
owners -> principal\_type principal\_name
principal\_type -> STRING
principal\_name -> STRING

PIELD
owners
principal\_type
principal\_name DESCRIPTION

Each owner that we want to describe delegation tokens for, or null to describe all tokens.

DescribbdelegationToken Request (Version: 2) >> [owners] TAG\_BUFFER owners >> principal\_type principal\_name TAG\_BUFFER principal\_type >> COMPACT\_STRING principal\_name >> COMPACT\_STRING

FIELD
owners
principal\_type
principal\_name
\_tagged\_fields
\_tagged\_fields GESCRIPTION

Each cowner that we want to discribe disliquation tokens for, or null to describe all tokens.
The eneme protopul repe.
The eneme protopul rearu.
The support fields
The topport fields

DescribeDelegationToken Request (Version: 3) -> [owners] TAG\_BUFFER 
owners -> principal\_type principal\_name TAG\_BUFFER 
principal\_type -> COMPACT\_STRIMS 
principal\_name -> COMPACT\_STRIMS

FIELD
owners
principal\_type
principal\_name
\_tagged\_fields
\_tagged\_fields DESCRIPTION Each owner that we want to describe delegation tokens for, or null to describe all tokens.

The owner principal type.

The owner principal name.

The tagged fields

DescribeDelagationTokan Response (Wersion: 0)  $\Rightarrow$  error\_code [takens] threatte\_time\_ms
error\_code  $\Rightarrow$  NUTG
tokens  $\Rightarrow$  principal, type principal\_name issue\_timestamp engiry\_timestamp max\_timestamp taken\_id hmac [ronewers]
principal\_type  $\Rightarrow$  STRUMG
principal\_type  $\Rightarrow$  STRUMG
max\_timestamp  $\Rightarrow$  MUTG
monomorphism
mono

FELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
tokens	The tokens.
principal.type	The token principal type.
principal_name	The token principal name.
Issue_timestamp	The token issue timestamp in milliseconds.
expiry_timestamp	The token expiry timestamp in milliseconds.
max_timestamp	The token maximum timestamp length in milliseconds.
token_id	The token ID.
Inmac	The token HMAC.
renewers	Those who are able to renew this token before it expires.
principal_type	The renewer principal type
principal_name	The renewer principal name
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

DescribedingstissTaken Rasponse (Version: 1) --> error\_code [takens] throttle\_time\_ms
error\_code --> DTTS

takense --> principal\_type principal\_mane issue\_timestamp expiry\_timestamp maw\_timestamp token\_id home [renewers]
principal\_type --> STRING

principal\_type --> STRING

maw\_timestamp --> DTTG4

token\_id --> DTTG4

token\_id --> STRING

home --> DTTG4

token\_id --> STRING

home --> DTTG4

token\_id --> STRING

home --> STRING

principal\_type --> DTTG4

token\_id --> STRING

home --> STRING

principal\_type --> STRING

principal\_type --> STRING

principal\_type --> STRING

Directival\_type -->
D

FELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
tokens	The tokens.
principal_type	The token principal type.
principal_name	The token principal name.
Issue, timestamp	The token issue timestamp in milliseconds.
expiry_timestamp	The token expiry timestamp in millseconds.
max_timestamp	The token maximum timestamp length in milliseconds.
token_id	The token ID.
hmac	The token HMAC.
Tendeworks	Those who are able to renew this token before it expires.
principal_type	The renewer principal type
principal_name	The renewer principal name
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

DescribbohigationTaken Response (Version: 2)  $\infty$  error\_code [takens] throttle\_time\_ns 746\_BUFFER
error\_code  $\infty$  NIDE
takens or principal\_name issue\_timestamp engiry\_timestamp max\_timestamp taken\_id hmac [renewers] 746\_BUFFER
principal\_name  $\infty$  compact\_STRING
principal\_name  $\infty$  compact\_STRING
issue\_timestamp  $\infty$  NITG4
max\_timestamp  $\infty$  NITG4
max\_timestamp  $\infty$  NITG4
taken\_id  $\infty$  compact\_STRING
hnac  $\infty$  compact\_STRING
principal\_name  $\infty$  compact\_STRING
through  $\infty$  compact\_STRING
through  $\infty$  compact\_STRING
principal\_name  $\infty$  compact\_STRING
throttle\_time\_ns  $\infty$  compact\_STRING
throttle\_time\_ns  $\infty$  NITG2
throttle\_time\_ns  $\infty$  NITG2

FIELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
tokens	The tokens.
principal_type	The token principal type.
principal_name	The token principal name.
isous_timestamp	The token issue timestamp in milliseconds.
exply, timestamp	The token expiry timestamp in milliseconds.
max_timestamp	The token maximum timestamp length in milliseconds.
tokan_id	The token ID.
hmac	The token HMAC.
ranewers	Those who are able to renew this token before it expires.
principal_type	The renewer principal type
principal_name	The renewer principal name
_tagged_fields	The tagged fields
_Imaged_fields	The tagged fields
throttle_time_ms	The duration in milliseconds for which the request was throttied due to a quota violation, or zero if the request did not violate any quota.
_tagged_fields	The tagged fields

FELD	DESCRIPTION
error_code	The error code, or 0 if there was no error.
tokans	The tokens.
principal_type	The token principal type.
principal_name	The token principal name.
token_requester_principal_type	The principal type of the requester of the token.
token_requester_principal_name	The principal type of the requester of the token.
issue_timestamp	The token issue timestamp in milliseconds.
expiry_timestamp	The token expiry timestamp in milliseconds.
max_timestamp	The token maximum timestamp length in milliseconds.
token jd	The token ID.
hmac	The token HMAC.
renewers	Those who are able to renew this token before it expires.
principal_type	The renewer principal type
principal_name	The renewer principal name
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
_tagged_fields	The tagged fields

DeleteGroups Request (Version: θ) ⇒ [groups\_names] groups\_names ⇒ STRING

FIELD groups\_names

DeleteGroups Request (Version: 1) -> [groups\_names] groups\_names -> STRING

FIELD groups\_names

DeleteGroups Request (Version: 2) -> [groups\_names] TAG\_BUFFER groups\_names -> COMPACT\_STRING

FIELD
groups\_names
\_tagged\_fields
Responses:

DeleteGroups Response (Version: 0) -> throttle\_time\_ms [results] throttle\_time\_ms > INT32 results -> group\_id error\_code group\_id -> STRIMC error\_code >> INT16

FIELD throttle\_time\_ms results group\_id error\_code SESSORETION

The distribution millisecords for which the request was throttled due to a quote violation, or zero if the request did not violate any quote.

The didetion results The group id

The deletion error, or 0 if the deletion succeeded.

DeleteGroups Response (Version: 1)  $\Rightarrow$  throttle\_time\_ms [results] throttle\_time\_ms  $\Rightarrow$  NNTI2 results  $\Rightarrow$  group\_id error\_code group id  $\Rightarrow$  STRIMG error\_code  $\Rightarrow$  NNTIA

FIELD throttle\_time\_ms results DESCRIPTION

The distation is millisecondly for which the request was throstled due to a quote violation, or zero if the request did not violate any quote.

The deficion results

The distance sero, or of the deletion succeeded. group\_id error\_code

DeleteGroups Response (Version: 2)  $\Rightarrow$  throttle\_time\_ms [results] TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  INT32 results  $\Rightarrow$  results  $\Rightarrow$  repulse from code TAG\_BUFFER group\_id  $\Rightarrow$  COMPACT\_STRIME error\_code NITIG

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The deletion results
group_id	The group id
error_code	The deletion error, or 0 if the deletion succeeded.
_tagged_fields	The tagged fields
taoped fields	The taiged fields

# ElectLeaders API (Key: 43):

Electicaders Request (Version: 0)  $\Rightarrow$  [topic partitions] timeout\_ms topic partitions  $\Rightarrow$  topic [partitions] topic  $\Rightarrow$  STRING partitions  $\Rightarrow$  IDH32 timeout\_ms  $\Rightarrow$  IDH32

DESCRIPTION
The topic partitions to elect leaders.
The name of a topic.
The partitions of this topic whose leader should be elected.
The time in ms to wait for the election to complete.

Electionders Request (Version: 1)  $\Rightarrow$  election\_type [topic\_partitions] timeout\_ms election\_type  $\Rightarrow$  DNTB topic\_partitions  $\Rightarrow$  topic\_partitions  $\Rightarrow$  DNTB topic\_ $\Rightarrow$  SNTAMS partitions  $\Rightarrow$  DNTD2 timeout\_ms  $\Rightarrow$  DNTD2

FIELD election\_type topic\_partitions DESCRIPTION

Tigge of election is conduct for the partition. A value of TI elects the preferred regicle. A value of TI elects the first live regica if there are no in-sync regist.

The topic partitions to elect leaders. The name of a topic.

The partitions of this topic whose leader should be elected. timeout\_ms

Electioner's Request (Version: 2)  $\infty$  election\_type [topic\_partitions] timeout\_ms TMG\_RMFFER election\_type  $\sim 100\%$  Election  $\sim 100\%$  Elections of the [RMFFER topic  $\sim 0.00\%$  ELECTION  $\sim 100\%$  Election  $\sim 100\%$ 

RELD	DESCRIPTION
election_type	Type of elections to conduct for the partition. A value of '0' elects the preferred replica. A value of '1' elects the first live replica if there are no in sync replica.
topic_partitions	The topic partitions to elect leaders.
topic	The name of a topic.
partitions	The partitions of this topic whose leader should be elected.

# Legged fields The tagged fields tinnout, ris Legged fields The time in mits to wait for the election to complete. The digned fields The lagged fields

### ......

Electionder's Response (Version: 0) -> throttle time as [replica election\_results]
throttle time as -> INT2

replica election\_results -> topic [partition\_result]
topic -> STRIMG
partition\_result -> partition\_iderror\_code error\_message
partition\_id -> INT2

error\_code -> NTIG6

error\_message -> NULLARE\_STRIMG

FELD	DESCRIPTION
thottle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
replica_election_results	The election results, or an empty array if the requester did not have permission and the request asks for all partitions.
topic	The topic name
partition_result	The results for each partition
partition_id	The partition id
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.

Electicaders Response (Version: 1) --> throttle time as error\_code [replica\_election\_results] throttle\_time as --> INT22 throttle\_time as --> INT22 error\_code --> DATES replica\_election\_results --> topic [partition\_result] topic --> TRING partition\_results --> topic [partition\_results --> topic [partition\_results --> topic | partition\_results --> topic | partition\_results --> topic | partition\_results --> topic | partition\_results --> partition\_results --> partition\_results --> partition\_results --> DATES |
error\_code -->

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
replica_election_results	The election results, or an empty array if the requester did not have permission and the request asks for all partitions.
topic	The topic name
partition_result	The results for each partition
partition_id	The partition id
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.

Electicaders Response (Version: 2) — throttle\_time\_ms error\_code [replica\_election\_results] TAG\_BUFFER throttle\_time\_ms — NTM2 error\_code — NTM5 error\_code error\_mscape TAG\_BUFFER topic — COMPACT\_STRIMS partition\_result — partition\_feath — partition\_feath — partition\_feath — partition\_feath — partition\_feath — NTM5 error\_code error\_mscape TAG\_BUFFER partition\_feath — NTM5 error\_code error\_code error\_mscape — COMPACT\_MSLARIE\_STRIMG

FIELD	DESCRIPTION
throttis_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code.
replica_election_results	The election results, or an empty array if the requester did not have permission and the request asks for all partitions.
topic	The topic name
partition_result	The results for each partition
partition_id	The partition id
error_code	The result error, or zero if there was no error.
error_message	The result message, or null if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_lagged_fields	The tagged fields

### Incremental Alter Configs API (Key: 44)

### Requests:

FELD	DESCRIPTION
RECOURCES	The incremental updates for each resource.
resource_type	The resource type.
resource_name	The resource name.
configs	The configurations.
name	The configuration key name.
config_operation	The type (Sixt, Delete, Append, Subtract) of operation.
value	The value to set for the configuration key.
validate_only	True if we should validate the request, but not change the configurations.

IncrementalAlterConfigs Request (Version: 1) -> (resources) validate\_only TAG\_BUFFER resources -> resource\_type resource\_name [configs] TAG\_BUFFER resource\_type -> URT resource\_name -> COMPACT\_STRING configs -> name config\_speration value TAG\_BUFFER name -> COMPACT\_STRING config\_speration -> URT value -> COMPACT\_STRING value -> COMPACT\_BULLBUE\_STRING value -> COMPACT\_BULLBUE\_STRING values\_complex\_STRING values\_complex\_STR

DESCRIPTION
The incremental updates for each resource.
The resource type.
The resource name.
The configurations.
The configuration key name.
The type (Sirt, Delete, Append, Subtract) of operation.
The value to set for the configuration key.
The tagged fields
The tagged fields
True if we should validate the request, but not change the configurations.
The tagged fields

# Responses

IncrementalAlterConfigs Response (Version: 0)  $\rightarrow$  throttle\_time\_ms [responses] throttle\_time\_ms  $\rightarrow$  INTO responses  $\rightarrow$  recover\_mass  $\rightarrow$  INTO responses  $\rightarrow$  recover\_mass  $\rightarrow$  INTO resource\_type  $\rightarrow$  INTO resource\_type

FIELD	DESCRIPTION
throttle_time_ma	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
responses	The responses for each resource.
error_code	The resource error code.
error_message	The resource error message, or null if there was no error.
resource_type	The resource type.
resource_name	The resource name.

IncrementalAlterConfigs Response (Version: 1) -> threttle\_time\_ms [responses] TAG\_RWFFER
threttle\_time\_ms -> INITS

error\_code -> INITS

error\_code -> INITS

error\_code -> COMPACT\_MALABLE\_STRING
resource\_type -> INITS

res

```
Select | Bidde | Bydde Except | Ogdere Except | Eprest | Serve | Eprest | Serve | Serv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Print Edit WE
getert Uses Cell
FIELD
throttle_time_ms
responses
error_code
error_message
resource_type
resource_name
_tagged_fields
_tagged_fields
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DESCRIPTION

Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Duration imilitationals for which the request was throttle.
The responses for each resource.
The resource error code.
The resource error message, or null if there was no error.
The resource error message, or null if the was no error.
The resource pipe.
The tagged fields
The tagged fields
```

AlterPortItionResignment Request (Version: 0)  $\Rightarrow$  timesor as [topics] TAG\_REFER timesor as  $\Rightarrow$  NTT2 timesor as  $\Rightarrow$  NTT2 topics  $\Rightarrow$  new [continued] TAG\_REFER name  $\Rightarrow$  COPMACT\_STRUME partitions—purition [index [replices] TAG\_REFER partition\_index]  $\Rightarrow$  NTT2 partition\_index [replices] TAG\_REFER partition\_index  $\Rightarrow$  NTT2 part

FIELD	DESCRIPTION
timeout, ma	The time in ms to wait for the request to complete.
topics	The topics to reassign.
name	The topic name.
partitions	The partitions to reassign.
partition_index	The partition index.
replicas	The replicas to place the partitions on, or null to cancel a pending reassignment for this partition.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

AlterPartitionRessignments Response (Version: 0)  $\infty$  throttle\_time\_ms\_error\_code\_error\_message [responses] TAG\_MEFFER
trottle\_time\_ms  $\rightarrow$  DEFEX
error\_code  $\infty$  Defex (MALLAME\_STRING
error\_code  $\infty$  Defex (MALLAME\_STRING
error\_code  $\infty$  Defex (MALLAME\_STRING
error\_code  $\infty$  Defex (MALLAME\_STRING
error\_code  $\infty$  Defex (MALLAME\_STRING)
error\_code  $\infty$  DEFEX
partition\_index  $\infty$  DEFEX
partition\_index  $\infty$  DEFEX
error\_code error\_code error\_message TAG\_MEFFER
error\_code  $\infty$  DEFEX

FIELD	DESCRIPTION
throttis_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top-level error code, or 0 if there was no error.
error_message	The top-level error message, or null if there was no error.
responses	The responses to topics to reassign.
name	The topic name
partitions	The responses to partitions to reassign
partition_index	The partition index.
error_code	The error code for this partition, or 0 if there was no error.
error_message	The error message for this partition, or null if there was no error.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

ListPartitionMeasignments Request (Version: 0)  $\rightarrow$  timeout\_ms [topics] TAG\_RUFFER timeout\_ms  $\rightarrow$  NT/2 timeout\_ms  $\rightarrow$  NT/2 timeout\_ms  $\rightarrow$  NT/2 timeout\_ms  $\rightarrow$  NT/2 timeout\_ms  $\rightarrow$  CURPACT\_STRUE partition\_indexes  $\rightarrow$  NT/2 timeout\_ms  $\rightarrow$  NT/2 timeout\_

FELD	DESCRIPTION
timeout_ms	The time in ms to wait for the request to complete.
topics	The topics to list partition reassignments for, or null to list everything.
name	The topic name
partition_indexes	The partitions to list partition reassignments for.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

ListPartitionNessignments Response (Version: 0) -> throttle\_time\_ms error\_code error\_message [topics] TAG\_MUFFER
throttle time ms -> INTIZ

HOTTO: DOWNERS | TAGE |

HOTTO: MSSTAGE | TAGE |

HOTTO: MSSTAGE |

HO

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top-level error code, or 0 if there was no error
error_message	The top-level error message, or null if there was no error.
topics	The ongoing reassignments for each topic.
name	The topic name.
partitions	The ongoing reassignments for each partition.
partition_index	The index of the partition.
replicas	The current replica set.
adding_replicas	The set of replicas we are currently adding.
removing_replicas	The set of replicas we are currently removing.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
Jagged_fields	The tagged fields

# OffsetDelete API (Key: 47):

OffsetBelate Request (Version: 0) -> group\_id [topics]
group\_id -> STRING
topics -> nase [partition]
topics -> nase [partition]
partition -> partition\_index
partition\_index -> INT32

FIELD	DESCRIPTION
group_id	The unique group identifier.
topics	The topics to delete offses for
name	The topic name.
partitions	Each partition to delete offsets for.
partition_index	The partition index.

Offsetbelers Response (Version: 8)  $\rightarrow$  error\_code thruttle\_time\_ms [topics] error\_code  $\rightarrow$  NITI6 thruttle\_time\_ms  $\rightarrow$  NITI6 thruttle\_time\_ms  $\rightarrow$  NITI6 topics  $\rightarrow$  mass [sartitions] name  $\rightarrow$  SIRIM[partitions]  $\rightarrow$  partition index error\_code partition\_sides  $\rightarrow$  NITI2 error\_code  $\rightarrow$  NITI6

FELD	DESCRIPTION
arror_code	The top-level error code, or 0 if there was no error.
throttle_time_ma	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

topics	The responses for each topic.
name	The topic name.
	The responses for each partition in the topic.
partition_index	The partition index.
	The error code, or 0 if there was no error.

### DescribeClientQuotas API (Key: 48):

### Dequests:

FELD	DESCRIPTION
components	Filter components to apply to quota entities.
entity_type	The entity type that the filter component applies to.
match_type	How to match the entity (0 = exact name, 1 = default name, 2 = any specified name).
match	The string to match against, or null if unused for the match type.
strict	Whether the match is strict, i.e. should exclude entities with unspecified entity types.

FELD	DESCRIPTION
components	Filter components to apply to quota entities.
entity_type	The entity type that the filter component applies to.
match_type	How to match the entity (0 = exact name, 1 = default name, 2 = any specified name).
match	The string to match against, or null if unused for the match type.
_magged_fields	The tagged fields
strict	Whether the match is strict, i.e. should exclude entities with unspecified entity types.
_magged_fields	The tagged fields

### Dacraneae

DescribeClienthetts Response (Version: 8) -> threttle\_time\_ms error\_code error\_message [entries] throttle\_time\_ms = NUTATE\_ESTRING error\_code = NULLAME\_ESTRING error\_essage = NULLAME\_ESTRING entries = (entrity\_tope entrity\_name entries\_tope entrity\_tope entry\_tope entries\_tope = NULLAME\_STRING entrity\_name = NULLAME\_STRING entrity\_name >> NULLAME\_STRING entrity\_name >>

PIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or '0' if the quota description succeeded.
error_message	The error massage, or 'null' if the quota description succeeded.
entries	A result entry.
entity	The quota entity description.
ently_type	The entity type.
entity_name	The entity name, or null if the default.
values	The quota values for the entity.
key	The quota configuration key.
value	The quota configuration value.

Describe(lisethedram Response (Version: 1) \$\infty\$ throttle\_time\_ms error\_code error\_message [entries] TAG\_REFER throttle\_time\_ms \$\infty\$ 1MT20 error\_code = \text{NUME} BULLABLE\_STRING error\_code = \

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or '0' if the quota description succeeded.
error_message	The error message, or 'null' if the quota description succeeded.
entries	A result entry.
entity	The quota entity description.
entity_typo	The entity type.
entity_name	The entity name, or null if the default.
_tagged_fields	The tagged fields
values	The quota values for the entity.
key	The quota configuration key.
value	The quota configuration value.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

# AlterClientQuotas API (Key: 49)

# Requests

AlterClisetOustas Request (Version: 8) -> [entries] validate\_only
entries -> [entity] [ops]
entity -> entity\_type entity\_name
entity\_type -> entity\_type entity\_name
entity\_type -> entity\_type
entity\_type -> entity\_type
entitype
entity

FIELD	DESCRIPTION
antries	The quota configuration entries to after.
ensity	The quota entity to alter.
ensity_type	The entity type.
entity_name	The name of the entity, or null if the default.
ops	An individual quota configuration entry to alter
koy	The quota configuration key.
value	The value to set, otherwise ignored if the value is to be removed.
remove	Whether the quota configuration value should be removed, otherwise set.
validate_only	Whether the alteration should be validated, but not performed.

AlterClientQuaria Request (Worsion: 1) -> (entries) validate\_only TAG\_BUFFER
entries -> (entriey) [ops] TAG\_BUFFER
entries -> (entriey) [ops] TAG\_BUFFER
entries -> (entriey) [ops] TAG\_BUFFER
entries -> (entries) [ops] TAG\_BUFFER
entries -> (entries) [ops] TAG\_BUFFER
entries -> (entries) [ops]
entries -> (entries) [op

FIELD	DESCRIPTION
entries	The quota configuration entries to alter.
entity	The quota entity to alter.
entity_type	The entity type.
entity_name	The name of the entity, or null if the default.
_tagged_fields	The tagged fields
909	An individual quota configuration entry to alter.

Select   Hole Cycle   Hole Ecope   Cycles Ecope   Serve   Total   Cycle   Cycl	Print Edit WE	Help
key	The quota configuration key.	
value	The value to set, otherwise ignored if the value is to be removed.	
remove	Whether the quota configuration value should be removed, otherwise set.	
_tagged_fields	The tagged fields	
_tagged_fields	The tagged fields	
validate_only	Whether the alteration should be validated, but not performed.	
Jagged_Nelds	The tagged fields	

Alter(lies(s)ocias Response (Version: 0) -- throttle\_time\_ms [entries] throttle\_time\_ms -- DRIZ throttle\_time\_ms -- DRIZ entries: -- prercode error pecsage [entity] error\_code -- DRIZ error\_code -- DRIZ error\_code -- DRIZ entry\_code -- SRIZ entry\_code -- DRIZ entry\_code -- DRIZ

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
entries	The quota configuration entries to after.
error_code	The error code, or '0' if the quota alteration succeeded.
error_message	The error message, or 'null' if the quota alteration succeeded.
entity	The quota entity to after.
entity_type	The entity type.
entity_name	The name of the entity, or null if the default.

AlterClientOuts's Response (Version: 1)  $\Rightarrow$  throutle\_time\_ns [entries] TAG\_BUFFER throutle time\_ns  $\Rightarrow$  NTT2 entries \text{outs} \text{outs

DESCRIPTION	
The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.	
The quota configuration entries to alter.	
The error code, or '0' if the quota alteration succeeded.	
The error message, or 'null' if the quota alteration succeeded.	
The quota entity to after.	
The entity type.	
The name of the entity, or null if the default.	
The tagged fields	
The tagged fields	
The tagged fields	

DescribeUserScramCredentials Request (Version: 0)  $\Rightarrow$  [users] TAG\_BUFFER users  $\Rightarrow$  name TAG\_BUFFER name  $\Rightarrow$  COMPACT\_STRING

FELD	DESCRIPTION
users	The users to describe, or null/empty to describe all users.
name	The user name.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Describing from Code recognitions Response (Version: 0) -- threttle\_time\_ms\_error\_code error\_message [results] TAG\_BUFFER
seror\_message -- OUTBLE
error\_message -- OUTBLE\_STRING
error\_code -- OUTBLE\_

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The message-level error code, 0 except for user authorization or infrastructure issues.
error_message	The message-level error message, if any.
results	The results for descriptions, one per user:
user	The user name.
error_code	The user-level error code.
error_message	The user-level error message, if any.
credential_infos	The mechanism and related information associated with the user's SCRAM credentials.
mechanism	The SCRAM mechanism.
Herations	The number of iterations used in the SCRAM credential.
Jagged_fields	The tagged fields
Jagged_fields	The tagged fields
Jagged_fields	The tagged fields

# AlterUserScramCredentials API (Key: 51):

AlterGurScraftredectals Request (Vertion: 0) ~> [deletions] (spartions) TAG\_REFFER
deletions ~> mass machanism TAG\_REFFER
mass contains ~> DTR mass
machanism ~> DTR mass
mass compact structure mass exclusions iterations salt salted\_password TAG\_REFFER
mass ~> COMPACT\_STRUCTURE

FELD	DESCRIPTION
deletions	The SCRAM credentials to remove.
name	The user name.
mechanism	The SCRAM mechanism.
_tagged_fields	The tagged fields
upsertions	The SCRAM credentials to update/insert.
name	The user name.
mechanism	The SCRAM mechanism.
Renations	The number of iterations.
field	A random salt generated by the client.
salted_password	The salted password.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Alterius-Grandrodentials Response (Version: 0)  $\Rightarrow$  throttle\_time\_ms [results] TAG\_RUFFER throttle\_time\_ms  $\Rightarrow$  NRTZ results  $\Rightarrow$  user orange code error\_message TAG\_RUFFER user  $\Rightarrow$  COMPACT\_STRING error\_code  $\Rightarrow$  NRTS error\_message  $\Rightarrow$  COMPACT\_MALLERE\_STRING

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
results	The results for deletions and alterations, one per affected user.
user	The user name.
error_code	The error code.
error_message	The error message, if any.
_tagged_fields	The tagged fields
tagged fields	The targed fields

DescribeQuorum Request (Version: 0) => [topics] TAG\_BUFFER topics => topic\_name [partitions] TAG\_BUFFER topic\_name => COMPMCT\_STRIMO partitions => partition\_index TAG\_BUFFER partition\_index => INT32

FELD	DESCRIPTION
topics	
topic_name	The topic name.
partitions	
partition_index	The partition index.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

FELD	DESCRIPTION
topics	
	The topic name.
partitions	
	The partition index.
	The tagged fields
	The tagged fields
_tagged_fields	The tagged fields

Describépourum Response (Version: 8) --> error\_code [topics] TAG\_BUFFER
error\_code --> BITIS
topics --> topic\_mame [partitions] TAG\_BUFFER
topic\_case --> COMPMI\_STUNDG
partitions --> partition, looke error\_code leader\_id leader\_spech high\_watermark [current\_voters] [doservers] TAG\_BUFFER
partitions --> partition\_idea --> BITIS
ender\_id --> BITIS
tabder\_good --> BITIS
tabder\_spood -->
tabder\_sp

FIELD	DESCRIPTION
error_code	The top level error code.
topics	
topic_name	The topic name.
partitions	
partition_index	The partition index.
error_code	
leader_id	The ID of the current leader or -1 if the leader is unknown.
leader_epoch	The latest known leader epoch
high_watermark	
current_voters	
replica_id	
log_end_offset	The last known log and offset of the follower or -1 if it is unknown
_tagged_fields	The tagged fields
observers	
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

FIELD	DESCRIPTION
error_code	The top level error code.
topics	
topic_name	The topic name.
partitions	
partition_index	The partition index.
error_code	
leader_id	The ID of the current leader or -1 if the leader is unknown.
leader_epoch	The latest known leader epoch
high_watermark	
current_voters	
replica_id	
log_end_offset	The last known log end offset of the follower or +1 if it is unknown
last_fetch_timestamp	The last known leader wall clock time time when a follower fetched from the leader. This is reported as -1 both for the current leader or if it is unknown for a voter
last_eaught_up_timestamp	The leader wall clock append time of the offset for which the follower made the most recent fetch request. This is reported as the current time for the leader and -1 if unknown for a voter
_tagged_fields	The tagged felds
observers	
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

# AlterPartition API (Key: 56):

AtterPartition Request (Version: 8) -> broker\_id broker\_spech [tepics] TAG\_BUFFER broker\_spech [Tag] STATE broker\_spech [Tag] Partition\_spech TAG\_BUFFER\_spech [Tag] STATE broker\_spech [Tag] STATE

FIELD	DESCRIPTION
broker_id	The ID of the requesting broker
broker_epoch	The spoch of the requesting broker
topics	
topic,name	The name of the topic to alter ISRs for
partitions	
partition_index	The partition index
leader_spoch	The leader epoch of this partition
new iar	The ISR for this partition. Deprecated since version 3.

AtterPartition Regast (Version: 1) -> broker\_ids broker\_opoch [tapics] TAG\_RUFFER
broker\_id -> NTE2
broker\_id -> NTE2
broker\_ids -> NTE4
topics -> NTE4
topics -> NDE4
topics -> NDE4
topics -> NDE4
topics -> NDE4
partitions -> Septition | Index leader\_spech [new\_isr] leader\_recovery\_state partition\_epoch TAG\_RUFFER
partition | Septition\_index -> NDTE2
leader\_recovery\_state partition\_epoch TAG\_RUFFER
partition\_epoch -> NDTE2
leader\_recovery\_state -> NDTE2
partition\_epoch -> NDTE2
partition\_epoch -> NDTE2

AlterPartition Request (Vertion: 2) -> broker\_id broker\_spoch [topics] TAG\_REFFER
broker\_id -> NITI22
broker\_id -> NITI24
topics -> topic\_id [partition] TAG\_REFFER
topic\_id -> topic\_id [partition] TAG\_REFFER
topic\_id -> topic\_id [partition] TAG\_REFFER
topic\_id -> topic\_

FELD

DESCRIPTION

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AlterPartition Request (Version: 3) -> broker\_id broker\_egoch [topics] TAG\_EMFFER
broker\_id -> NUTS2
broker\_id -> NUTS2
broker\_id -> NUTS4
topics -> topic\_id [partitions] TAG\_EMFFER
topic\_id -> Utility
topic\_id -> Utility
partition\_ide -> NUTS2
partition\_ide -> NUTS2
leader\_goch -> NUTS2
leader\_goch -> NUTS2
broker\_goch -> NUTS2
broker\_goch -> NUTS4
broker\_goch -> NUTS5
broker\_goch ->

FIELD	DESCRIPTION
broker_id	The ID of the requesting broker
broker_epoch	The spoch of the requesting broker
topics	
topic_id	The ID of the topic to alter ISRs for
partitions	
partition_index	The partition index
leader_epoch	The leader spoch of this partition
new jisr with opochs	
broker_ld	The ID of the broker.
broker_spoch	The spoch of the broker. It will be -1 if the spoch check is not supported.
_Inagged_fields	The tagged fields
leader_recovery_state	1 if the partition is recovering from an unclean leader election; 0 otherwise.
partition_epoch	The expected epoch of the partition which is being updated. For legacy cluster this is the ZkVersion in the LeaderAndisr request.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

### Responses

Attrapartition Response (Version: 0)  $\Rightarrow$  throttle\_time\_ms error\_code [topics] TAS\_MEFFER
throttle\_time\_ms  $\Rightarrow$  NTI2
error\_code  $\Rightarrow$  NTI3
topic  $\Rightarrow$  Opic [msee [partitions] TAS\_MEFFER
topic\_mms  $\Rightarrow$  COMPACT\_STANDS
partitions—prottless\_times error\_code leader\_tid leader\_speck [isr] partition\_especk TAS\_MEFFER
partition\_code  $\Rightarrow$  NTI2
leader\_tide\_time\_times\_ti

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AlterPartition Response (Worsian: 1)  $\rightarrow$  throttle\_time\_ms\_error\_code [topics] TAG\_RMFFER
throttle\_time\_ms\_ $\rightarrow$  NNT22

representations  $\rightarrow$  DMTER
topics\_ $\rightarrow$  topic\_mams\_[partitions] TAG\_RMFFER
topic\_mams\_ $\rightarrow$  compart\_STRING
partitions  $\rightarrow$  partition\_index error\_code leader\_id leader\_epoch [isr] leader\_recovery\_state partition\_epoch TAG\_RMFFER
partition\_index  $\rightarrow$  NNT22
error\_code  $\rightarrow$  NNT23
isr\_ $\rightarrow$  NNT21
isr\_ $\rightarrow$  NNT21
isr\_ $\rightarrow$  NNT22
isr\_ $\rightarrow$  NNT21
isr\_ $\rightarrow$  NNT22

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.

topics	
topic_name	The name of the topic
partitions	
partition_index	The partition index
error_code	The partition level error code
leader_id	The broker ID of the leader.
leader_epoch	The leader epoch.
lar .	The in-sync replice IDs.
leader_recovery_state	1 if the partition is recovering from an unclean leader election; 0 otherwise.
partition, epoch	The current epoch for the partition for KRaft controllers. The current ZK version for the legacy controllers.
Jagged_fields	The tagged fields
Jagged_fields	The tagged fields
_tagged_fields	The tagged fields

AlterPartition Response (Version: 2)  $\Rightarrow$  throttle\_time\_se error\_code [topics] TAG\_BUFFER
throttle\_time\_se  $\Rightarrow$  INT2

representation [fortilloss] TAG\_BUFFER
topic\_time  $\Rightarrow$  UNID
partition = partition index or INT2

partition = partition

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code
topics	
topic_id	The ID of the topic
partitions	
partition_index	The partition index
error_code	The partition level error code
leader_id	The broker ID of the leader.
leader_epoch	The leader epoch.
lar	The in-syste replica IDs.
leader_recovery_state	1 if the partition is recovering from an unclean leader election; 0 otherwise.
partition, speech	The current epoch for the partition for Kitaft controllers. The current ZK version for the legacy controllers.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
Tangged_fields	The tagged fields

Atterfarition Response (Version: 3) so throttle\_time\_se error\_code [topics] TAG\_BUFFER
throttle\_time\_se so INT20
error\_code > DITE
topics > DITE
topics > DITE
topics > DITE
partition = partition | TAG\_BUFFER
topic | d > DITE
partition = partition | index error\_code | teader\_second | isr| | leader\_recovery\_state partition\_epoch TAG\_BUFFER
partition\_topic > DITE
error\_code > DITE
topic | d > DITE
topic > DI

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top level response error code
topics	
topic, id	Tha ID of the topic
partitions	
partition_index	The partition index
error_coda	The partition level error code
leader_id	The broker ID of the leader.
leader_spoch	The leader epoch.
ior	The in-syne replica IDs.
leader_recovery_state	1 if the partition is recovering from an unclean leader election; 0 otherwise.
partition, epoch	The current epoch for the partition for KRaft controllers. The current ZK version for the legacy controllers.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

# UpdateFeatures API (Key: 57):

# Requests:

UpdateFeatures Request (Version: 0) -> timeout\_ms [feature\_updates] TAG\_REFER
timeot\_m >> INT2
feature\_updates >> teature\_max\_version\_level\_allow\_downgrade TAG\_REFER
feature >> COMPACT\_STAIRS
anx\_version\_level >> INTIG
allow\_downgrade >> DOLEAN

FIELD	DESCRIPTION
timeout_ms	How long to wait in milliseconds before timing out the request.
feature_updates	The list of updates to finalized features.
feature	The name of the finalized feature to be updated.
max_version_level	The new maximum version level for the finalized feature. A value >= 1 is valid. A value < 1, is special, and can be used to request the deletion of the finalized feature.
allow_downgrada	DEPRECATED in version 1 (see Downgrade/Type). When set to true, the finalized feature version level is allowed to be downgraded/deleted. The downgrade request will fall if the new maximum version level is a value that's not lower than the existing maximum finalized version level.
_tagged_fields	The tagged fields
_lagged_fields	The tagged fields

UpdateFeatures Request (Version: 1) ⇒ timeout\_ms [feature\_updates] validate\_only TAG\_BUFFER
timeout\_ms ⇒ INTE2
feature sugaints ⇒ feature max version\_level upgrade\_type TAG\_BUFFER
feature ≈ COMPCC\_STRIGE
max\_version\_level ⇒ INTE
validate\_only ⇒ BODIEAN

FIELD	DESCRIPTION
Yimsout_ms	How long to wait in milliseconds before timing out the request.
feature_updates	The list of updates to finalized features.
feature	The name of the finalized feature to be updated.
max_version_level	The new maximum version level for the finalized feature. A value > 1 is valid. A value > 1, is special, and can be used to request the deletion of the finalized feature.
upgrade_type	Determine which type of upgrade will be performed: 1 will perform an upgrade only (default), 2 is safe downgrades only (lossless), 3 is unsafe downgrades (lossy).
_tagged_fields	The tagged fields
validate_only	True if we should validate the request, but not perform the upgrade or downgrade.
_tagged_fields	The tagged fields

# Responses

UpdateFeatures Response (Version: 8) -> throttle\_time\_ms\_error\_code\_error\_message [results] TAG\_BUFFER
throttle\_time\_ms\_> INTS
error\_code -> INTS

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top-level error code, or '0' if there was no top-level error.
error_message	The top-level error message, or 'null' if there was no top-level error.
results	Results for each feature update.
feature	The name of the finalized feature.
error_code	The feature update error code or "0" if the feature update succeeded.
error_message	The feature update error, or 'null' if the feature update succeeded.
_tagged_fields	The tagged fields

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top-level error code, or '0' if there was no top-level error.
error_message	The top-level error message, or 'mull' if there was no top-level error.
results	Results for each feature update.
feature	The name of the finalized feature.
error_code	The feature update error code or '0' if the feature update succeeded.
error_message	The feature update error, or 'null' if the feature update succeeded.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

### Fovelone API (Key: 58):

### Rennests

Envelope Request (Version: 0)  $\Rightarrow$  request data request principal client host\_address TAG\_BUFFER request\_data  $\Rightarrow$  COMPACT\_BYTES request\_rest\_ala  $\Rightarrow$  COMPACT\_BYTES client\_host\_address  $\Rightarrow$  COMPACT\_BYTES

FELD	DESCRIPTION
request_data	The embedded request header and data.
request_principal	Value of the initial client principal when the request is redirected by a broker.
client_host_address	The original client's address in bytes.
Jagged_fields	The tagged fields

### Responses:

Envelope Response (Version: 8) -> response\_data error\_code TAG\_BUFFER response\_data -> COMPACT\_NULLABLE\_BYTES error\_code -> INT16

FIELD	DESCRIPTION
response_data	The embedded response header and data.
error_code	The error code, or 0 if there was no error.
_tagged_fields	The tagged fields

### DescribeCluster API (Key: 60)

### Requests

DescribeCluster Request (Version: 0) → include\_cluster\_authorized\_operations TAG\_BUFFER include\_cluster\_authorized\_operations → BOOLEAN

FELD	DESCRIPTION
Include_cluster_authorized_operations	Whether to include cluster authorized operations.
tagged_fields	The tagged fields

### Responses:

FELD	DESCRIPTION
throttle_tme_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top-level error code, or 0 if there was no error
error_message	The top-level error message, or null if there was no error.
cluster_id	The cluster ID that responding broker belongs to.
controller_id	The ID of the controller broker.
brokers	Each broker in the response.
broker_id	The broker ID.
host	The broker hostname.
port	The broker port.
rack	The rack of the broker, or null if it has not been assigned to a rack.
_taggad_fields	The tagged fields
cluster_authorized_operations	32 bit bitfield to represent authorized operations for this cluster.
and file	The second fields

# DescribeProducers API (Key: 61):

# Requests:

DescribeProducers Request (Version: 8) -> [topics] TAG\_BUFFER topics -> name [partition\_indexes] TAG\_BUFFER name -> COMPACT\_STRING partition\_indexes -> INT32

FIELD	DESCRIPTION
topics	
name	The topic name.
partition_indexes	The indexes of the partitions to list producers for.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

### Responses

Describe/reducers Response (Version: 0) \$\infty\$ threttle\_time\_as [tepics] TAG\_RUFFER
threttle\_time\_as \$\infty\$ INTEL
threttle\_time\_as \$\infty\$ INTEL
traces \$\infty\$ Comparison of the comparis

FELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
topics	Each topic in the response.
name	The topic name
partitions	Each partition in the response.
partition_index	The partition index.
error_code	The partition error code, or 0 if there was no error.
error_message	The partition error message, which may be null if no additional details are available
active_producers	
producer_id	
producer_epoch	
last_sequence	
lact_timestamp	
coordinator, spech	
current_txm_start_offset	
_tagged_fields	The tagged fields
_Imagesd_fields	The tagged fields
_tagged_fields	The tagged fields

### Requests:

UnregisterBroker Request (Version: θ) ⇒ broker\_id TAG\_BUFFER broker\_id ⇒ INT32

FELD	DESCRIPTION
broker_id	The broker ID to unregister.
tanger fields	The tanget fields

The tagged fields

### Responses:

DiregisterEncher Response (Version: 0)  $\Rightarrow$  throttle\_time\_ms error\_code error\_message TAG\_BUFFER throttle\_time\_ms  $\Rightarrow$  NUTI2 error\_code  $\Rightarrow$  NUTI5 error\_message  $\Rightarrow$  COPMAT\_MALABLE\_STRIMG

FELD	DESCRIPTION
throttle_time_ms	Duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The error code, or 0 if there was no error.
error_message	The top-level error message, or 'null' if there was no top-level error.
_tagged_fields	The tagged fields

DescribeTransactions Request (Version: 0) ⇒> [transactional\_ids] TAG\_BUFFER transactional\_ids ⇒> COMPACT\_STRING

FIELD	DESCRIPTION
transactional_ids	Array of transactionalids to include in describe results. If empty, then no results will be returned.
_tagged_fields	The tagged fields

DESCRIPTION
The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
The set of partitions included in the current transaction (if active). When a transaction is preparing to commit or abort, this will include only partitions which do not have markers.
The tagged fields
The tagged fields
The tagged fields

ListTransactions Request (Version: 0) -> [state\_filters] [producer\_id\_filters] TAG\_BUFFER state\_filters -> COMPACT\_STRING producer\_id\_filters -> INT64

	'
FIELD	DESCRIPTION
state, filters	The transaction states to filter by: if empty, all transactions are returned; if non-empty, then only transactions matching one of the filtered states will be returned
producer_id_filters	The producereds to filter by, if empty, all transactions will be returned; if non-empty, only transactions which match one of the filtered producereds will be returned
hand fields	The description of Politics

ListTransactions Response (Version: 0) --- throttle time ms error\_code [unknown\_state\_filters] [transaction\_states] TAG\_RUFFER
throttle time ms --- INTIA
unknown\_state\_filters --- COMPACT\_STRING
transaction\_state\_filters --- COMPACT\_STRING
transaction\_state -- transaction\_id\_deproduce\_id\_transaction\_state TAG\_RUFFER
transaction\_state --- TRANSACT\_STRING
produce\_id\_de--- INTIA
transaction\_state --- INTIA
transaction\_state ---- INTIA

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	
unknown_state_filters	Set of state filters provided in the request which were unknown to the transaction coordinator
transaction_states	
transactional_id	
producer_id	
transaction_state	The current transaction state of the producer
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

AllocateProducerIds Request (Version: 0) -> broker\_id broker\_epoch TAG\_RUFFER broker\_id -> INT32 broker\_epoch -> INT54

FIELD
broker\_id
broker\_epoch
\_tagged\_fields
Responses: DESCRIPTION

The ID of the requesting broker

The epoch of the requesting broker

Allocate/roducerids Response (Version: 8) -> throttle\_time\_ms error\_code producer\_id\_start producer\_id\_len TAG\_BUFFER throttle\_time\_ms -> DMT2 and throttle\_time\_

FIELD
throttle\_time\_ms
error\_code
producer\_id\_start
producer\_id\_len
\_tagged\_fields DESCRIPTION

The dutation in millisecods; for which the request was throtted due to a queta violation, or zero if the request did not violate any queta. The top body response zero code

The first produced in this reacy, includes

The number of producer IS in this range.

The support fields

# ConsumerGroupHeartbeat API (Key: 68):

FELD	DESCRIPTION
group, Id	The group identifier.
member jd	The mamber id generated by the coordinator. The member id must be kept during the entire lifetime of the member.
member, spoch	The current member spock; 0 to join the group; 1 to leave the group; 2 to indicate that the static member will rejoin.
instance_id	null if not provided or if it didn't change since the last heartbeat; the instance id otherwise.
rack_id	null if not provided or if it didn't change since the last heartbeat; the rack ID of consumer otherwise.
rebalance_timeout_ms	-1 if it didn't chance since the last heartbeat; the maximum time in milliseconds that the coordinator will wait on the member to revoke its partitions otherwise.
subscribed_topic_names	null if it didn't change since the last heartheat; the subscribed topic names otherwise.
subscribed_topic_regex	null if it didn't change since the last heartbeat; the subscribed topic regex otherwise
server_assignor	null if not used or if it didn't change since the last heartbeat; the server side assignor to use otherwise.
client_assignors	null if not used or if it didn't change since the last heartbeat; the list of client-side assignors otherwise.
name	The name of the assignor.
minimum_version	The minimum supported version for the metadata.
maximum_version	The maximum supported version for the metadata.
reason	The reason of the metadata update.
metadata_version	The version of the metadata.
metadata_byses	The metadata.
_tagged_fields	The tagged fields
topic partitions	null if it didn't change since the last heartheat; the partitions owned by the member.
topic_id	The topic ID.
partitions	The partitions.
_taggad_fields	The tagged fields
_toggad_fields	The tagged fields

FIELD	DESCRIPTION
throttle_time_ms	The duration in milliseconds for which the request was throttled due to a quota violation, or zero if the request did not violate any quota.
error_code	The top-level error code, or 0 if there was no error
error_message	The top-level error message, or null if there was no error.
member_id	The member id generated by the coordinator. Only provided when the member joins with MemberEpoch == 0.
member_epoch	The member epoch.
should_compute_assignment	True if the member should compute the assignment for the group.
heartboat_interval_ms	The heartbeat interval in milliseconds.
assignment	null if not provided; the assignment otherwise.
error	The assigned error.
assigned_topic_partitions	The partitions assigned to the member that can be used immediately.
topic, id	The topic ID.
partitions	The partitions.
_ttagged_fields	The tagged fields
pending_topic_partitions	The partitions assigned to the member that cannot be used because they are not released by their former owners yet.
metadata_version	The version of the metadata.
metadata_byos	The assigned metadata.
_tagged_fields	The tagged fields
_tagged_fields	The tagged fields

Offices have assided if mapple we shouldn't support many different protocols. Prior experience with this was that it makes it very hard to add and set new features if they have to be ported access many protocol implementations. Our feeling is that most uses don't result see multiple protocols as a feature, they just west a good reliable client in the language of their choice.

Another questions in why we don't adopt XMMPP or an existing protocol. The answer to this varies by protocol, but in general the protocol in deep relations in the protocol does determine large parts of the implementation and we couldn't do what we are definit if we don't have control over the protocol. Our belief is that it is possible to do better than existing messaging systems have in providing a 'taly distribute accommoding that works differently.

A finit question is why we don't use a system like Protocol Buffers or Thirlt to define our request messages. These packages excel at helping you to managing lots and lots of serialized messages. However we have only a few messages. Support across languages is somewhat sportly (depending on the package). Finally the mapping bits applicable. Finally we prefer the sight of versioning APIs explicitly and checking this to inferring new values as nulls as it allows more managed control of compatibility.