Kafka 课程培训:工具简介

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1. topic管理: kafka-topics.sh

• topic是kafka的消息存储的基本单位。

• topic是生产和消费业务的基本载体。

./kafka-topic.sh --help

root@ecs-a3f7:/work/kafka_2.12-2.3.0/bi	in# ./kafka-topics.shhelp	create	Create a new topic.		
This tool helps to create, delete, desc Option	Description	delete delete-config <string: name=""></string:>	Delete a topic A topic configuration override to be		
alter	Alter the number of partitions, replica assignment, and/or configuration for the topic.	describe	removed for an existing topic (see the list of configurations under the config option). Not supported with thebootstrap-server option.		
at-min-isr-partitions	<pre>if set when describing topics, only show partitions whose isr count is equal to the configured minimum. Not supported with thezookeeper option.</pre>	disable-rack-aware exclude-internal	List details for the given topics. Disable rack aware replica assignment exclude internal topics when running list or describe command. The internal topics will be listed by default		
bootstrap-server <string: connect="" server="" to=""></string:>	REQUIRED: The Kafka server to connect to. In case of providing this, a direct Zookeeper connection won't be required.	force help if-exists	Suppress console prompts Print usage information. if set when altering or deleting or describing topics, the action will only execute if the topic exists.		
command-config <string: command="" config="" file="" property=""></string:>	Property file containing configs to be passed to Admin Client. This is used only withbootstrap-server option	if-not-exists	Not supported with thebootstrap- server option. if set when creating topics, the		
config <string: name="value"></string:>	for describing and altering broker configs. A topic configuration override for the		action will only execute if the topic does not already exist. Not supported with thebootstrap-		
config society, name-vacaes	topic being created or altered.The	list	server option. List all available topics.		
	following is a list of valid configurations: cleanup.policy compression.type delete.retention.ms		The number of partitions for the topic being created or altered (WARNING: If partitions are increased for a topic that has a key, the partition logic or ordering of the messages will be affected		
	file.delete.delay.ms flush.messages flush.ms follower.replication.throttled. replicas	replica-assignment <string: broker_id_for_part2_replica1:="" broker_id_for_part2_replica2,="" broker_id_for_partl_replica2,="" broker_id_for_partl_replical:=""></string:>	A list of manual partition-to-broker assignments for the topic being created or altered.		
	index.interval.bytes leader.replication.throttled.replicas max.compaction.lag.ms max.message.bytes message.downconversion.enable message.format.version message.timestamp.difference.max.ms message.timestamp.type	replication-factor <integer: factor="" replication="">topic <string: topic=""></string:></integer:>	The replication factor for each partition in the topic being created. The topic to create, alter, describe or delete. It also accepts a regular expression, except forcreate option. Put topic name in double quotes and use the '\' prefix to escape regular expression symbols; e. g. "test\.topic".		
	min.cleanable.dirty.ratio min.compaction.lag.ms min.insync.replicas	topics-with-overrides	if set when describing topics, only show topics that have overridden configs		
	preallocate retention.bytes	unavailable-partitions	if set when describing topics, only show partitions whose leader is not available		
	retention.ms segment.bytes segment.index.bytes segment.jitter.ms segment.ms	under-min-isr-partitions	if set when describing topics, only show partitions whose isr count is less than the configured minimum. Not supported with thezookeeper option.		
	unclean.leader.election.enable See the Kafka documentation for full	under-replicated-partitionsversion	<pre>if set when describing topics, only show under replicated partitions Display Kafka version.</pre>		
	details on the topic configs.It is supported only in combination with create ifbootstrap-server option is used.	zookeeper <string: hosts=""></string:>	DEPRECATED, The connection string for the zookeeper connection in the form host:port. Multiple hosts can be given to allow fail-over.		
		- · · · · · · · · · · · · · · · · · · ·			

1. topic管理: kafka-topics.sh

- bootstrap-server: kafka的链接地址
- zookeeper: zookeeper链接地址
- create: 创建topic的指令
- delete:删除topic的指令
- list: 查询topic列表的指令
- describe:查询topic详情的指令
- topic: topic的名称
- partitions:创建topic时指定分区数
- replication-factor:创建topic时指定副本数
- config:创建topic时指定topic的配置

1. topic管理: kafka-topics.sh

• 查询topic列表:

bin/kafka-topics.sh --boostrap-server 127.0.0.1:9091 –list

• 查询topic详情(分区,副本,leader信息):

bin/kafka-topics.sh --bootstrap-server 127.0.0.1:9091 --topic topicName –describe

创建topic:

bin/kafka-topics.sh --create --bootstrap-server 127.0.0.1:9091 --topic topicName --partitions 3 -- replication-factor 2

• 删除topic:

bin/kafka-topics.sh --delete --bootstrap-server 127.0.0.1:9091 --topic topicName

• 脚本用于向指定的kafka集群进行消息生产

• ./kafka-console-producer.sh --help

root@ecs-a3f7:/work/kafka_2.12-2.3.0/bir This tool helps to read data from standa Option	n# ./kafka-console-producer.sh ard input and publish it to Kafka. Description	metadata-expiry-ms <long: metadata<br="">expiration interval></long:>	The period of time in milliseconds after which we force a refresh of metadata even if we haven't seen any leadership changes. (default: 300000)
batch-size <integer: size=""></integer:>	Number of messages to send in a single batch if they are not being sent	<pre>producer-property <string: producer_prop=""></string:></pre>	A mechanism to pass user-defined properties in the form key=value to the producer.
broker-list <string: broker-list=""></string:>	synchronously. (default: 200) REQUIRED: The broker list string in the form HOST1:PORT1,HOST2:PORT2.	producer.config <string: config="" file=""></string:>	Producer config properties file. Note that [producer-property] takes precedence over this config.
compression-codec [String: compression-codec] help	The compression codec: either 'none', 'gzip', 'snappy', 'lz4', or 'zstd'. If specified without value, then it defaults to 'gzip' Print usage information.	property <string: prop=""></string:>	A mechanism to pass user-defined properties in the form key=value to the message reader. This allows custom configuration for a user-defined message reader.
line-reader <string: reader_class=""></string:>	The class name of the class to use for reading lines from standard in. By default each line is read as a separate message. (default: kafka. tools. ConsoleProducer\$LineMessageReader)	request-required-acks <string: request required acks> request-timeout-ms <integer: request<br="">timeout ms></integer:></string: 	The required acks of the producer requests (default: 1) The ack timeout of the producer requests. Value must be non-negative and non-zero (default: 1500)
max-block-ms <long: block="" max="" on="" send=""></long:>	The max time that the producer will block for during a send request (default: 60000)	retry-backoff-ms <integer></integer>	Before each retry, the producer refreshes the metadata of relevant topics. Since leader election takes
<pre>max-memory-bytes <long: bytes="" in="" memory="" total=""></long:></pre>	The total memory used by the producer to buffer records waiting to be sent to the server. (default: 33554432)		a bit of time, this property specifies the amount of time that the producer waits before refreshing the metadata. (default: 100)
max-partition-memory-bytes <long: memory in bytes per partition></long: 	The buffer size allocated for a partition. When records are received	socket-buffer-size <integer: size=""></integer:>	The size of the tcp RECV size. (default: 102400)
	which are smaller than this size the producer will attempt to optimistically group them together	sync	If set message send requests to the brokers are synchronously, one at a time as they arrive.
message-send-max-retries <integer></integer>	until this size is reached. (default: 16384) Brokers can fail receiving the message for multiple reasons, and being unavailable transiently is just one of them. This property specifies the number of retires before the	timeout <integer: timeout_ms=""></integer:>	If set and the producer is running in asynchronous mode, this gives the maximum amount of time a message will queue awaiting sufficient batch size. The value is given in ms. (default: 1000)
	number of retires before the producer give up and drop this message. (default: 3)	topic <string: topic=""></string:>	REQUIRED: The topic id to produce messages to.
	message. (derautt. 3)	version	Display Kafka version.

- broker-list: kafka链接地址
- message-send-max-retries: 消息的最大重试次数
- producer.config: 客户端配置文件
- property: 客户端自定义配置
- topic: topic名称

• 生产消息示例:

bin/kafka-console-producer.sh --broker-list 127.0.0.1:9091 --topic test

• 脚本可以从kafka集群中使用指定的消费组消费指定topic的数据

./kafka-console-consumer.sh --help

root@ecs-a3f7:/work/kafka_2.12-2.3.0/bin# ./kafka-console-consumer.sh --help This tool helps to read data from Kafka topics and outputs it to standard output. Option Description REOUIRED: The server(s) to connect to. -bootstrap-server <String: server to connect to> -consumer-property <String:</pre> A mechanism to pass user-defined consumer prop> properties in the form key=value to the consumer. -consumer.config <String: config file> Consumer config properties file. Note that [consumer-property] takes precedence over this config. Log lifecycle events of the consumer -enable-systest-events in addition to logging consumed messages. (This is specific for system tests.) formatter <String: class> The name of a class to use for formatting kafka messages for display. (default: kafka.tools. DefaultMessageFormatter) -from-beginning If the consumer does not already have an established offset to consume from, start with the earliest message present in the log rather than the latest message. -group <String: consumer group id> The consumer group id of the consumer. Print usage information. -isolation-level <String> Set to read committed in order to filter out transactional messages which are not committed. Set to read uncommittedto read all messages. (default: read uncommitted) -key-deserializer <String:</pre> deserializer for key> The maximum number of messages to -max-messages <Integer: num messages> consume before exiting. If not set, consumption is continual

The offset id to consume from (a non--offset <String: consume offset> negative number), or 'earliest' which means from beginning, or 'latest' which means from end (default: latest) -partition <Integer: partition> The partition to consume from. Consumption starts from the end of the partition unless '--offset' is specified. The properties to initialize the -property <String: prop> message formatter. Default properties include: print.timestamp=true|false print.key=true|false print.value=true|false key.separator=<key.separator> line.separator=<line.separator> key.deserializer=<key.deserializer> value.deserializer=<value. deserializer> Users can also pass in customized properties for their formatter; more specifically, users can pass in properties keyed with 'key. deserializer.' and 'value. deserializer.' prefixes to configure their deserializers. --skip-message-on-error If there is an error when processing a message, skip it instead of halt. --timeout-ms <Integer: timeout ms> If specified, exit if no message is available for consumption for the specified interval. The topic id to consume on. -topic <String: topic> --value-deserializer <String:</pre> deserializer for values> Display Kafka version. -version Regular expression specifying --whitelist <String: whitelist> whitelist of topics to include for consumption.

- bootstrap-server: kafka链接地址
- consumer-property: 自定义消费配置
- consumer.config: 自定义配置文件
- from-beginning: 若不存在消费进度,则从头开始消费
- group: 消费组
- partition: 消费的分区
- topic: 消费的topic名称
- whitelist: 消费topic的正则表达式

• 消费命令

bin/kafka-console-consumer.sh --bootstrap-server 127.0.0.1:9091 --topic test --group mygroup -- from-beginning

• 用于查询消费组列表和详情,监控消费状态如消费进度、当前消费者、消费者的分区分配等

kafka-consumer-group.sh --help

This tool helps to list all consumer groups, describe a consumer group, delete consumer groups		root@ecs-a3f7:/work/kafka_2.12-2.3.0/bi	in# ./kafka-consumer-groups.sh	reset-offsets	Reset offsets of consumer group.
Option Description Percent command config string: command config string command config string command config string: command config string configuration configuration configuration configuration string configuration configuration configuration string configuration configuration configuration string configuration string configuration configuration string	i	This tool helps to list all consumer gr	roups, describe a consumer group, delete consumer gr		Supports one consumer group at the
-all-topics -all-t			Description		
-all-topics -bootstrap-server <string: -string:="" <string:="" a="" all="" assigned="" connect="" consider="" duration="" group="" in="" processbootstrap-server="" resect-offsets="" server="" the="" to="" toby-duration="" topics=""> Reset offsets to offset by duration from current timestapp. Format: -command-config <string: <bri="" <string:="" command="" config="">-delete</string:></string:>	ŀ				
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members Describe members of the group. This option may be used with 'describe' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group and list all topic partitions in the group along with their offset lag. This is the default sub-action of and may be bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group members topic <string: topic=""> Inh topic whose consumer group information should be deleted or topic whose should be included in the reset offsets all of specified using this format: 'topic! 9,1,2', where 0,1,2 are the partition to be included in the process. Reset-offsets also supports multiple topic inputs. verbose Provide additional information, if any, when describing the group. This option may be used with ' offsets'/'members'/'state' and bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose</string:>	ŀ	help	Print usage information.	to-latest	
option may be used with 'describe' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersoffsets Describe the group and list all topic partitions in the group along with their offset lag. This is the default sub-action of and may be used with 'describe' and ' used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl sample:bootstrap-server localhost: 9092describegroup groupl membersverbose Intromation should be deteed or topic whose should be included in the reset offset process. In `reset- offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset process. In `reset- offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset process. In `reset- offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets process. In `reset- offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be partition sould 1, 2, where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be partition to be included in the reset offsets' case, partitions can be partition to be included in the reset offsets' case, partitions can be partition to be included in 0,1,2', where 0,1,2'	ŀ	list	List all consumer groups.		
and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl members Describe the group and list all topic partitions in the group along with their offset lag. This is the default sub-action of and may be used with 'describe' and ' used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl "Topic whose should be included in the reset offset's case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset's case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset's case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset's case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset's case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offset's case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partitions can be specified using this format: 'topicl: 0,1,2', where 0,1,2 are the partition to be included in the reset offsets' case, partition to be included. 10,1,2', where 0,1,2 are the partition to be included 10,1,2 are the partition to be included 10,1,2 are the partition to be included 10,1,2 are the partition to b	ľ	members	Describe members of the group. This	topic <string: topic=""></string:>	The topic whose consumer group
and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group1 members offsets Describe the group and list all topic partitions in the group along with their offset lag. This is the used with 'describe' and ' used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group1 The reset offset process. In `reset- offsets case, partitions can be specified using this format: 'topic! 0,1,2`, where 0,1,2 are the partition to be included in the process. Reset-offset process. In `reset- offsets' case, partitions can be specified using this format: 'topic! 0,1,2`, where 0,1,2 are the partition to be included in the process. Reset-offset also supports multiple topic inputs. verbose Provide additional information, if any, when describing the group. This offsets'/members'/state' and bootstrap-server' options only. Example:bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group1 membersverbose			option may be used with 'describe'		
Example:bootstrap-server localhost: 9092describegroup groupl members offsets Describe the group and list all topic partitions in the group along with default sub-action of and may be used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl offsets' case, partitions can be specified using this format: `topic!: 0,1,2', where 0,1,2 are the partition to be included in the process. Reset-offsets also supports multiple topic inputs. Provide additional information, if any, when describing the group. This option may be used with ' offsets' 'members' 'state' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose			and 'bootstrap-server' options		
9092describegroup groupl members Describe the group and list all topic partitions in the group along with their offset lag. This is the default sub-action of and may be used with 'describe' and ' used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl					offsets` case, partitions can be
members offsets Describe the group and list all topic partitions in the group along with their offset lag. This is the default sub-action of and may be used with 'describe' and ' offsets''members''state' and bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose members partition to be included in the process. Reset-offsets also supports multiple topic inputs. Provide additional information, if any, when describing the group. This option may be used with ' offsets''members''state' and ' offsets''members''state' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose					specified using this format: `topicl:
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partitions in the group atong with their offset lag. This is the default sub-action of and may be used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl group additional information, if any, when describing the group. This option may be used with ' offsets'/'members'/'state' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose Provide additional information, if any, when describing the group. This option may be used with ' offsets'/'members'/'state' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose	ľ	offsets	Describe the group and list all topic		
default sub-action of and may be used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group1 default sub-action of and may be option may be used with ' offsets'/'members'/'state' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup group1 membersverbose			partitions in the group along with	verbose	
used with 'describe' and ' bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose offsets'/'members'/'state' and 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl membersverbose					
bootstrap-server' options only. 'bootstrap-server' options only. Example:bootstrap-server localhost: 9092describegroup groupl 9092describegroup groupl 9092describegroup groupl			default sub-action of and may be		
Example:bootstrap-server localhost: 9092describegroup group1 membersverbose					
9092describegroup group1 membersverbose					
9092describegroup group1 membersverbose			Example:bootstrap-server localnost:		
OTTSELSversion Display Kafka version.					membersverbose
			UTTSELS	version	Display Katka version.

- bootstrap-server: kafka链接地址
- command-config:自定义客户端配置
- describe:查询消费组详细信息
- group:消费组名称
- list:查询所有消费组名称

• 查询消费组列表:

bin/kafka-consumer-groups.sh --bootstrap-server 127.0.0.1:9292 --list

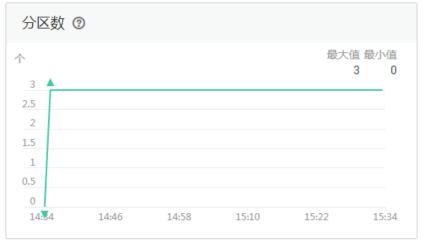
• 查询消费组详情:

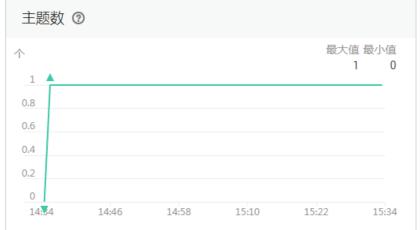
bin/kafka-consumer-groups.sh --bootstrap-server 127.0.0.1:9292 --describe --group test-grp

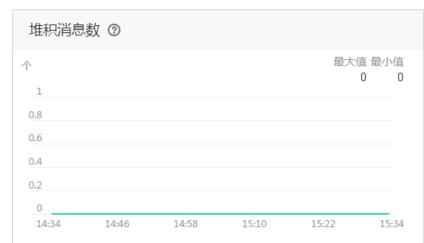
5.1 DMS Kafka细粒度监控:实例级别监控



更长时间范围监控曲线请在监控视图中点击、进入大图模式查看。







5.2 DMS Kafka细粒度监控:节点级别监控



更长时间范围监控曲线请在监控视图中点击"》进入大图模式查看。









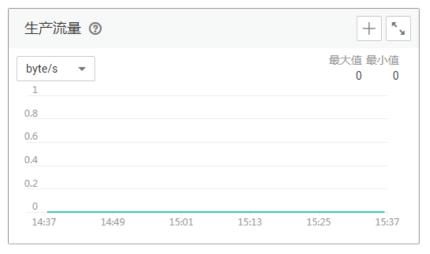


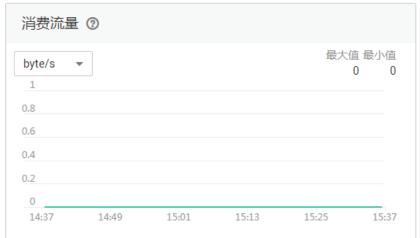


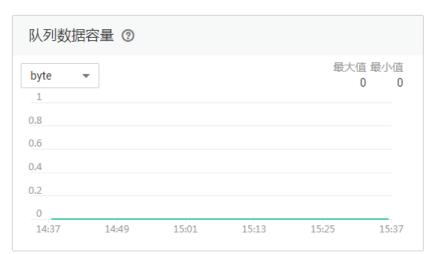


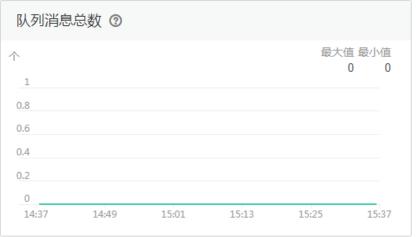


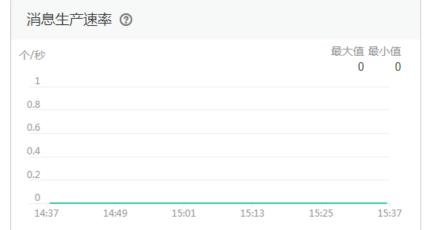
5.3 DMS Kafka细粒度监控:队列级别监控









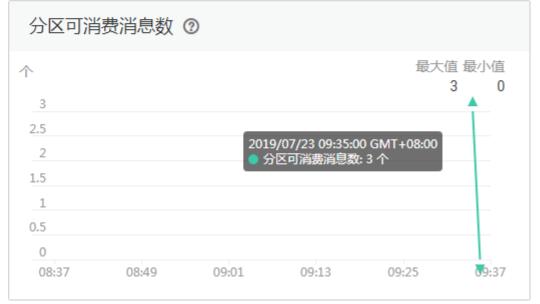


5.4 DMS Kafka细粒度监控:消费监控

消费组	group		•	队列	topic-sasl	•	分区	0	•
近1/	附	近3小时	近	[12小时	自动刷新 🖳				

更长时间范围监控曲线请在监控视图中点击 *、进入大图模式查看。





实战演练

- □ 创建topic: topic-test01
- □使用kafka-console-producer.sh生产消息
- □使用kafka-console-consumer.sh消费消息
- □使用kafka-consumer-groups.sh查看消费详情
- □查看DMS CES监控数据

kafka下载地址: http://mirror.bit.edu.cn/apache/kafka/2.3.0/kafka_2.12-2.3.0.tgz

Thank You