Monitoring Kafka Clusters Using Streams Messaging Manager 7.2.15

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Monitoring Kafka clusters

The overview page provides you with tools to see a snapshot of the Kafka cluster you are monitoring. After you select the Kafka cluster to monitor, you can see the total number of producers, brokers, topics, and consumer groups in that cluster. You can also monitor producer and consumer metrics.

Configure Apache Kafka for SMM

After you have installed and configured Apache Kafka, you must set one configuration parameter to enable Kafka and SMM to communicate.

- 1. Select Kafka from your cluster drop-down, and then select the Configuration tab.
- 2. Ensure that the Enable Producer Metrics check box is selected.

Viewing cluster overview information

You can use the Overview tab to review information about your Kafka cluster. This page gives you information about total number of producers, brokers, topics, and consumer groups. It also provides more detailed metrics about producers and consumers.

Review the Producers, Brokers, Topics, and Consumer Groups information at the top of your page to understand how many of each are contained in your Kafka cluster.



You can click the drop-down arrow in any of the boxes to view a list of Kafka resource. Select one or more Kafka resource to filter your view to just those resource. You can also search for a specific resource. You can click clear at any time to return to the full overview.

Overview

Producers 57	\$ #
Search	Q
🗆 Name	
geo-critical-event-collector-i2	
🗆 minifi-eu-i1	
geo-critical-event-collector-i4	
fuel-apps	
🗆 minifi-eu-i3	
supply-chain-apps	
🗆 and aritical quant collector i7	

You can select the time period you want to view the metrics for, on the top-right corner of the page. If Cloudera Manager is configured as a metrics backend, the metrics (for example, topic > partition > producermetrics) which are used for time periods larger than 6 hours are calculated asynchronously, and take time to refresh.

🕽 30 minutes 🗸

Monitoring Kafka producers

By monitoring Kafka producers, you can track the active and inactive producers in your cluster. You can also change the period of time after which a producer is considered inactive.

Understanding producer naming conventions

The producers you interact with in Streams Messaging Manager (SMM) are named based on the client.id property you added when creating Kafka producers.

Active vs. passive producers

On the Overview page, producers are referred to as active or passive. Producers are active when they are producing messages over a designated time period.

On the Producers page, passive producers are referred to as inactive.

You can set the period of time after which a producer is considered inactive in the Streams Messaging Manager Configs screen.

- 1. Select Streams Messaging Manager from the services pane.
- 2. Click Configs and select Advanced streams-messaging-manager-common from the Advanced tab.
- **3.** Update inactive.producer.timeout.ms to change the period of time after which a producer is considered inactive. This value is specified in milliseconds.

STREAMS MESSAGING MANAGER CONFIG ADVANCED

Advanced streams-messaging-manager-common

AMS's Kafka Application Id	kafka_broker	•	C
AMS's protocol	{{ams_timeline_metrics_protocol}}	•	C
ams.timeline.metrics.truststore. password	{{ams_metric_truststore_password}}	•	C
ams.timeline.metrics.truststore.path	{{ams_metric_truststore_path}}	•	C
ams.timeline.metrics.truststore.type	{{ams_metric_truststore_type}}	•	C
consumer.group.refresh.interval.ms	300000	•	C
inactive.group.timeout.ms	1800000	0	C
inactive.producer.timeout.ms	1800000	•	C

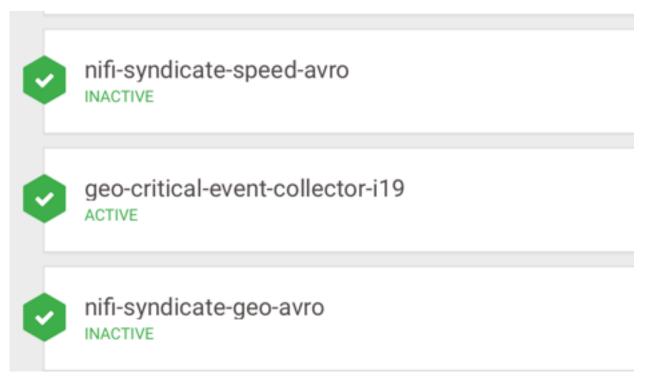
Identifying a producer state

There are two ways to identify whether a producer is active or passive.

From the Producer pane in the Overview page, use the Active, Passive, and All tabs to view only active producers, only passive producers, or all of them. This allows you to see the total number of active and passive producers.

Producers (84)	
ACTIVE (57) PASSIVE (27)	ALL
ME	SSAGES
geo-critical-event-coll	7m
minifi-eu-i1	5.9m
load-optimizer-apps	3.2m
geo-critical-event-coll	3m
fuel-apps	2.3m
minifi-eu-i2	1.8m

From the Producers page, each producer is listed with the status visible.



Monitoring Kafka topics

By monitoring Kafka topics, you can track the total number of topics in your cluster and details about the topics. You can also monitor Grafana metrics for the topics in your cluster.

Viewing the total number of topics in your cluster

You can see the total number of topics in your Kafka cluster on the Overview page.

1	Overview					Cluster: SMMDemo -	<u>*</u> -
) 6 8	Producers 57	•	Brokers 5	•	Topics 28	Consumer Groups 18	lear
888 • • • • • • • • • • • • • • • • • •	TOPICS (28) BROKERS (5)					C 30 minut	es 🕶

Detailed information about topics

The Topics page contains a number of useful details about your Kafka topics. This page helps you answer the following questions:

- How can I see if the replicas in this topic are in sync?
- How do I see this topic's retention rate?
- How can I see the replication factor for this topic?
- How do I see the producers and consumers that are connected to this topic?
- How do I find the total number of messages going into this topic, over a specified time range?

To access this detailed topic information:

- 1. From the left navigation pane, click Topics.
- 2. Identify the topic about which you want information. You can either scroll through the list of topics, or use the Search bar at the top left of the page.
- 3. Click the green hexagon at the left of the topic to view details.

gateway-we	st-raw-sen	sors		59MB	5КВ С	.3m	1		🧑 😧 Q 🗐 🔷
Producers (3)		Replic	cation Factor: (2)	InSync Replicas: 6 O	f 6 Total messages: 268,1	84 Retentior	n Period: 7 days		Consumer Groups (1)
minifi-truck-w3	MESSAGES 62k	\$ 0	0B in	0B out				1003	
minifi-truck-w3	72k	O P1	59MB in	5KB out				1004	LAG
minifi-truck-w1	87k	P 2	0B in	0B out				1005	

Viewing topic messages using Data Explorer

Data Explorer is a simple Kafka consumer within SMM. It enables you to view the actual content of a Kafka topic. You can select any Kafka topic and any partition within that topic, and view messages from the selected partition.

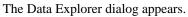
You can reach Data Explorer in two ways. One way is from the Topics page, and the other is from the Overview page. In both pages, you need to either click the magnifier icon, or navigate to the Topic Details page and then select the Data Explorer tab. The following steps describe the process:

- **1.** Log in to the SMM UI.
- 2. From the left navigation pane, click Topics.

3. Identify the topic about which you want message information. You can either scroll through the list of topics, or use the Search bar to find a topic.

4. Click the Data Explorer icon for that topic.

1	Topics							Cluster: K/	AFKA-1 🛔 🗸
& =	^{Bytes In} 1 MB	^{Bytes Out} 873 KB	Produced Per Sec 2	Fetched Per Sec 1,735	In Sync Replicas 887	Out Of Sync O	Under Replicated	Offline Partitions	
	Topics (37)					Search	٩	ට @ 30 minutes -	Add New
	NAME \$		DATA IN \$	DATA OUT \$	MESSAGES IN \$	CONSUMER GRI	OUPS \$		
+0	connect-configs		0B	6 KB	0	0		Data Explorer	~
11 11	smm-app-smm-p	oroducer-table-30s-repartitio	on OB	0B	0	1		Q 🗖	~
<u>د</u> ج ه	smm-app-smm-p	oroducer-table-15m-change	log 0B	0B	0	0		Q 🗖	~



W.	Topics	Data Explorer ×		Cluster: KAFI	KA-1 🛔 🗸
8	^{Bytes In} 1 MB	ISOLATION LEVEL: read_uncommitted > DESERIALIZER: Keys: String > Values: String >	Offline O		
	Topics (37)	•	ී 0 30 m	ninutes 🕶	Add New
•	connect-configs	FROM OFFSET RECORD LIMIT Partition 0 10 , .	Q		~
#	_smm-app-smm-pr	Offset Comparison Value * Timestamp Key Value 10 Tue, Aug 02 2022, session- ("key":"Zaz5dr/gJqqVOHelq2VK2UrvmZQ7JWUJPWqlkxCGaJZs=""algorithm"."HmacSHA256";"creation-	Q		~
R: ▲	smm-app-smm-pr	10 Let, Adg U2 ZUZZ, session- Key? . Zazoru/sug VV-reig ZV-ZUTVIL/2/JV-VI-WQIXXG-BJZS=, algorithm: HinacSHA256 ; creation- 23:10:16 key timestamp:1659462016469 11 Wed, Aug 03 2022, session- c(Key?: Alg/h3x/FwSEqzs0:wdUF0+YPD5+WU0khn8UhnWPhPMc=";algorithm:".HinacSHA256";creation- 00:10:16 key timestamp:1569462616502)	Q		~
	heartbeats	12 Wed, Aug 03 2022, 01:10:16 session- key ("key":"Wn90jWim8mthXEEi52zRqJszLg//JbSjmZDWNi830WI=":algorithm":"HmacSHA256";"creation- timestamp":1659469216541)	Q		~
	srm-service-status-o	13 Wed, Aug 03 2022, 02:10:16 session- key ("key":"AhgZN0QxCU1F9NUG1uC2MHpQ+JkCgoe2Q9SAaJJHrs=";algorithm":"HmacSHA256";creation- timestamp:1659472816592) 14 Wed, Aug 03 2022, 03:10:16 session- key ("key"::23EhhgGRgrLBhj3W72uP0NlpEQBeaqvjWS3Wsj4hk=";algorithm":"HmacSHA256";creation- timestamp:1659472416526)	Q		~
	connect-offsets	Oc. 10.10 Neg uninesamp: n.0.974 Vervice.ou/gr 15 Wei Aug032022, 04:10:16 session- key ("key":"H3F29irvOTz](F2e01]gBcVooll6sYA5oN8SHj9J2w=";algorithm":"HmacSHA256";"creation-timestamp":1659480016683)	Q		~
		16 Wed, Aug 03 2022, session- ("key/:`S+ZyenypPwssiYRvniCBDpXtjlZ/hbsthhwvv1tZB2s="/algorithm": "HmacSHA256"; creation-timestamp": 1659483616735) 05:10:16 key			
	_smm-app-smm-pr	17 Wed, Aug 03 2022, 06:10:16 session- key ("key":"MXIvaSCrieRda03+TGk7Iv5aM7y20H8gjRk7xyf48wA=";"algorithm":"HmacSHA256"; creation- timestamp":1659487216772}	Q		~

Alternatively, you can click the Profile icon for that topic.

1	Topics								Cluster: KA	rFKA-1 ≜ -
&a ≡	^{Bytes In} 1 MB	^{Bytes Out} 873 KB	Produced Per S 2	Sec Fetched Per Sec 1,735	In Sync Replicas 887	Out Of Sync O	Under Replicat		Offline Partitions	
	Topics (37)					Search		c D	Ø 30 minutes ₹	Add New
¢	NAME ≎		DAT			SAGES IN ¢ CO	DNSUMER GROUPS \$		۹ ا	~
* 11		producer-table-30s-repartit	ion 0B	0B	-					
6;		producer-table-sos-repartit	001 08	UB UB	0	Ι			Q 🔳	~
▲	_smm-app-smm-	producer-table-15m-change	elog OB	0B	0	0			۵ 🔳	~

Then go to the Data Explorer tab.

Topics / conn	nect-configs			Cluster: KAFKA-1
METRICS E	DATA EXPLORER CONFIGS LATE	NCY		
ISOLATION LE	VEL: read_uncommitted ~		DESERIALIZER: Keys: String Vulues: String	\
				۲
	FROM C	FFSET		RECORD LIMIT
Partition 0	• • 10		8 16	25 15
Offset \$	Timestamp	Key	Value	
10	Tue, Aug 02 2022, 23:10:16	session-key	{"key":"Zaz5d/gJgqVOHelg2VK2UrvmZQ7JWJiPWqIlxCGaJZs=","algorithm":"HmacSHA256","creation-timestamp":1659462016468}	
11	Wed, Aug 03 2022, 00:10:16	session-key	("key":"Alyh3x/Fw5Eqzso2wdUF0+YPD5+WU0khnBUhnWPhPMc=","algorithm":"HmacSHA256","creation-timestamp":1659465616502}	
12	Wed, Aug 03 2022, 01:10:16	session-key	("key":"Wn90jWlm8mthXEEi52zRqJSzLq//JbSjmZDWNi830WI=","algorithm":"HmacSHA2561,"creation-timestamp":1659469216541)	
13	Wed, Aug 03 2022, 02:10:16	session-key	{"key":"MhgZN0QxCU1F9NUG1uCzMHpQ+JkCgoeZQ9S5AaljHrs=","algorithm":"HmacSHA256","creation-timestamp":1659472816592}	
14	Wed, Aug 03 2022, 03:10:16	session-key	("key":"x23EfhhgGRgrLBhj3W72uP0NlpEQBeaqwjW53Wsj4hk=","algorithm":"HmacSHA256","creation-timestamp":1659476416626)	
15	Wed, Aug 03 2022, 04:10:16	session-key	$\label{eq:control} \end{tabular} we with the the two the two the two the two the two the two two two two two two two two two two$	
16	Wed, Aug 03 2022, 05:10:16	session-key	$\label{eq:starter} \label{eq:starter} \label{eq:starter} $$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $	
17	Wed, Aug 03 2022, 06:10:16	session-key	{"key":"MXlvaSCrieRda03+TGk7lv5aM7y20H8gjRk7xyf48wA=";algorithm":"HmacSHA256";"creation-timestamp":1659487216772}	
18	Wed, Aug 03 2022, 07:10:16	session-key	$\label{eq:constraint} \end{tabular} where \e$	
19	Wed, Aug 03 2022, 08:10:16	session-key	{"key":"oGKBG4eLU+Rye6WNsYioK/TPtsQgJ54m6Nqbl4FM/UQ=";"algorithm":"HmacSHA256';"creation-timestamp":1659494416840}	

- 5. Select any of the following modes in the Isolation Level option.
 - read_committed
 - read_uncommitted

The isolation level specifies whether uncommitted transactional messages should be read. By default, it is set to read_uncommitted.

6. Select the deserializer types for the Keys and Values options.

For example, if you select Avro, SMM uses the schema that can be found in Schema Registry to deserialize the messages.

7. Select any partition in the Partition field.

The Kafka topic must have partitions to select from.

8. Select a value for the From Offset field.

You can also use the selection bar to select an offset value. The maximum value is the offset of the last message. 9. Select a value for the Record Limit field.

The record limit value is the number of messages that are fetched starting from the message offset number selected in the From Offset field.



Note: Messages are displayed based on the above selections.

10. To see long messages, click show more beside a message.

The message opens in a dialog or a complete new tab based on the size of the message.

11. Optional. Click the Schema Registry icon to go to the related page in the Schema Registry UI.

•	Topics / conne	ect-configs							Cluster: KAFKA-1
\$9	METRICS D	ATA EXPLORER CONFIGS LATENC	r -						
	ISOLATION LEV	EL: read_uncommitted v				DESERIALIZER:	Keys: String	Values: String	~
•		FROM OFF:	SET						RECORD LIN Schema Registr
₹ I	Partition 0	• 7	0		• 7		14	:	15
	Offset 🖨	Timestamp	Key	Value					
64	7	Wed, Aug 03 2022, 22:00:02	session-key	{"key":"vqSOzClyUpbrNqQVSyaLPhKNsq	pgrqCyWhJnEDtf9Wk=","algorithm":"Hm	nacSHA256","crea	ation-timestamp":1659544202746}		
A	8	Wed, Aug 03 2022, 23:00:02	session-key	{"key":"mH5x7w0Xna9BLM0KE6V2fvVe	GorYZzU8dM3qokQ5Rkg=","algorithm":"	HmacSHA256","	creation-timestamp":1659547802764}		

Monitoring Kafka brokers

By monitoring Kafka brokers, you can track various details about brokers including the host where the broker is located, disk space used by the broker, throughput, messages coming in, partitions, and replicas.

Detailed broker information

The Brokers page contains a number of useful details about your Kafka brokers. This page helps you answer the following questions:

- On what host is my broker located?
- Is my broker running out of disk space?

To access detailed broker information:

- 1. From the left navigation pane, click Brokers.
- 2. Identify the broker about which you want information. You can either scroll through the list of brokers, or use the Search bar at the top left of the page.
- 3. Click the green hexagon at the left of the broker to view details.

1	Brokers											Cluster: Cluster 1
68	Brokers (3)								Search	Q	ъ	Ø 30 minutes ◄
	NAME \$				THROUGHPUT \$	MESSAGES	IN \$	PARTITIONS \$	REPLICAS \$			
0))	9 Ihunyady-ns155-1.lhunyady-ns155.root.h	nwx.site:90	92		0B	0	:	30	93	L		• ^
e	FREE MEMORY FREE	E DISK =		CPU IDLE 30.21	LOAD AVERAGE 1.5	54 DISK I/O 294727	7.00					
•)	_smm-app-smm-producer-t.	P0	0B in			0B out						
8	€ file-sink-2	P0	0B in			0B out						
A	_consumer_offsets	P2	0B in			0B out						
	consumer_offsets	P5	0B in			0B out						
	consumer_offsets	P8	0B in			0B out						
	consumer_offsets	P11	0B in			0B out						
	_smm_alert_notifications	P0	0B in			0B out						
	_consumer_offsets	P14	0B in			0B out						
	_consumer_offsets	P17	0B in			0B out						
	_smm_consumer_metrics	P0	0B in			0B out						

Viewing additional details about the broker host

You can view additional details about the broker host from Cloudera Manager. To access this information:

- 1. From the left navigation pane, click Brokers.
- 2. Identify the broker about which you want information. You can either scroll through the list of brokers, or use the Search bar at the top left of the page.

3. Click the Profile icon on the right side of the broker view.

Bi	rokers (3)				Search	Q	0 30 mir	nutes
	NAME ¢	THROUGHPUT \$	MESSAGES IN \$	PARTITIONS \$	REPLICAS \$			
0	9 Ihunyady-ns155-1.lhunyady-ns155.root.hwx.site:9092	0B	0	30	93	E	Profile	
0	11 Ihunyady-ns155-2.lhunyady-ns155.root.hwx.site:9092	0B	0	35	92	E		
C	13 Ihunyady-ns155-3.lhunyady-ns155.root.hwx.site:9092	OB	0	37	94			

4. Click the Cloudera Manager icon on the right side of the header.

Brokers	/ 9			Cluster: Cluster 1
20 METRI	CS CONFIGS			ت ۲ 0 30 minutes -
Produ	cers (3) InSync Replicas: 93 (f 93 Total Messages: 0 Retention	Period: 604,800,000 MILLISECONDS	Cloudera Manager Consumer Groups (1)
6	€ file-sink-2	P0 0B in	OB out	
*) E<	 _consumer_of _consumer_of 		OB out	

Monitoring Kafka consumers

By monitoring Kafka consumer groups, you can track active and passive consumer groups, or all consumer groups, which use the default internal __consumer_offsets topic to store the consumed offset information. You can track additional details about consumer groups. You can also track details including number of consumers and consumer instances included in a group and consumer group lag in the consumer group profile.

Streams Messaging Manager (SMM) displays consumer groups that have offsets stored in Kafka's internal topic _____consumer__offsets, which is also the default store if the auto.commit.enable property is set to true for consumers. SMM does not display consumer groups that have offsets stored anywhere else other than this default store.

Viewing summary information about consumer groups

The Overview page gives you summary information about consumer groups on the right side of the page. You can use the Active, Passive, and All tabs to view consumer groups only in the Active or Passives, or all of the consumer groups, which use the default internal __consumer_offsets topic to store the consumed offset information. Use the Lag tab to sort consumer groups based on ascending or descending amounts of lag.

Overview							Cluster: SMMDemo 👻 👗 👻
Producers 84	• Brokers 5	•		Topics 28	•	Consu	imer Groups 18
TOPICS (28) BROKERS (5)							S a month ◄
Producers (84)	NAME	DATA IN	DATA OUT	MESSAGES IN	CONSUMER GROUPS		Consumer Groups (18)
ACTIVE (61) PASSIVE (23) ALL MESSAGES	syndicate-transmission	139MB	77MB	0.6m	0	<mark>∲</mark> @Q≣ ∨	ACTIVE (3) PASSIVE (15) ALL
minifi-eu-i1 8.2m geo-critical-event-coll 4.1m	syndicate-speed-even	0B	0B	0	0	© 9Q≣ ∨	fuel-micro-service 14m supply-chain-micro-s 9.2m
geo-critical-event-coll 4m fuel-apps 3.4m	syndicate-speed-even	0B	0B	0	0	<u>&</u> @Q≣ ∨	audit-micro-service 5m adjudication-micro-se 4.1m
supply-chain-apps 2.3m geo-critical-event-coll 1.8m		00	00	0	5	¥ • ~ = •	load-optimizer-micro 4.1m energy-micro-service 2.4m
geo-critical-event-coll 1.6m	syndicate-oil	166MB	0B	0.8m	0	<mark>∲</mark> @Q≣ ∨	compliance-micro-ser 1.7m

Viewing details about a consumer group

To access detailed consumer group information:

- 1. From the left navigation pane, click Consumer Group.
- 2. Identify the consumer group about which you want information. You can either scroll through the list of consumer groups, or use the Search bar at the top left of the page.
- 3. Click the green hexagon at the left of the consumer group to view details.

Ø	nifi-truck-sensors-west		2	^
	Partitions (3) State: Stable			
	1004 gateway-west-r P0	0B in	0B out	
	♥1005 gateway-west-r P1	81MB in	29KB out	
	1001 gateway-west-r P2	0B in	0B out	

Viewing the consumer group profile

The Consumer Group profile displays detailed information about each consumer group, including:

- The number of consumers included in the group.
- The number of consumer instances in the group.
- Details about consumer group lag.

To access the Consumer Group profile:

- 1. From the Consumer Group page, select the consumer group for which you want to view the profile.
- 2. Click the profile icon in the upper right of the Consumer Group tile.

METRICS												O a month 🗸
Producers (3)		Partitions (3) State	: Stable						Consu	imers (2)	
minifi-truck-w3	MESSAGES	😒 1004 g	atewa F	00 0B in	0B out						umer-1	LAG 7
minifi-truck-w2	0.1m	🕑 1005 g	atewa F	81MB in	29KB out					J	umer-3	, 1
minifi-truck-w1	0.1m	😒 1001 g	atewa F	2 0B in	0B out					J		
Summary			Instan	ce			Торіс	Partition 🔻	Lag	Host	Offset	Log ends
Total Lag		8	consu	mer-1-29fa6e77-78dd-42	28a-b030-eef8753	e2d5f	gateway-west-raw-sensors	0	1	/10.0.28.39	-1	0
			consu	mer-1-6b0e4ffc-6f4c-4ee	ee-ad06-81d055e7	ed53	gateway-west-raw-sensors	1	б	/10.0.28.45	1636812	1636818
			consu	mer-3-68359916-35f8-4	007-b292-c48e72c	1bbb3	gateway-west-raw-sensors	2	1	/10.0.28.33	-1	0
Committed Offsets	8		Com	nitted Offsets Rate	l	Lag			Lag Ra	te		

Resetting consumer offset

To reset offset, perform the following steps:

- 1. From the left navigation pane, click Consumer Group.
- 2. Choose the consumer group for which you want to reset offset, and click the Profile icon.

1	Consumer Groups			Cluster: KAFKA-1
æ	Consumer Groups (4)		Search	cD
	NAME ¢	LAG ¢		
0)))	smm-app INACTIVE ®	0		~
(+) +)	test1 INACTIVE⊕	0	Profile	^
6;	Topics (2) State: Empty			
A	€test2			
	€test1			



Note: Resetting offsets is only possible for group the state of which is Empty or Dead. Attempt of resetting offset on any other group results in an error.

3. In the Metrics page, click Actions Reset offset .

The Reset offsets for consumer group dialog appears.

Het	Consumer Groups / test1			_	Cluste	r: KAFKA-1
-		Reset offsets for consumer group "test1"	×			
620	METRICS				🕤 🕐 30 minutes 🗸 🗛	
		Topics	Reset mode			
	Producers (1) To	All topics Filter	current v		Consumers (1)	
	MESSAGES perf-producer-client 0	test2	7			
(
	V	🗆 test1 🗸 🗸				
•				Offset		
R	Summary			20	90	
	Consumer Group Lag					
A				120	120	
				90	90	
				90	90	
			_	90	90	
			Apply Cancel		1 - 5 of 20	< >
	Com	mitted Offsets		-		
	Lag					

4. Select the topic and partition(s) you want to reset offset for.

You can use the arrow beside each topic to display the partitions of that topic, and select partition(s) as required. You can also select all topics and all related partitions by selecting the All topics option. You can use the Filter option to find a specific topic.

Reset offsets for consumer group "test1"	×
Topics	Reset mode
All topics Filter	current V
test2	
1 0	
□ 1	
2	
☑ 3	
4	
☑ 5	
6	
☑ 7	
☑ 8	
	Apply Cancel

5. Select the reset option in the Reset mode drop-down.

The available options are as shown in the following image:

Reset offsets for consumer group "test	t1"	×
Topics		Reset mode
All topics Filter	T	current 🗸 🗸
🖾 test2	~	current
test1	~	latest
		earliest
		offset
		date & time
		Apply Cancel

6. Click Apply.

Monitoring lineage information

Learn how you can visualize the lineage between producers and consumers.

To check which topics a producer is producing to, and which consumers consume from those topics, go to the Overview page and click on a single producer on the Producer pane. For example, click producer_1, as shown in the following image:

He	Overview											
æ	Producers 4 of 9	-									•	
≡											ී ම 30 mir	nutes 👻
	Producers (4)									Consumer	Groups (2)	
۲	ACTIVE (4) PASSIVE (0) ALL MESSAGES \$	heartbeats		172 KB		1.8k		Q	~	ACTIVE (2)		
•										group_1		0
≓		connect-stati	IS					Q		group_2		0
R;	producer_1 91											
A	Producer: producer_1 MESSAGES 91 PROFILE FILTER	connect-offse	ets					۹	~			
		a_topic		21 KB	15 KB	182	2	۹	~ •)		
		CruiseCont	rolMetrics	533 KB	533 KB	50k		٩	~			

After you click producer_1, you can see that it produces to a topic called a_topic, and that both consumer groups (group_1 and group_2) consume from that topic.

This works the other way round as well. If you click on a single consumer group, you see what topics it consumes from and which producers produce to those topics. For example, click group_1, as shown in the following image:

He	Overview										Cluster: Cluster
æ	Producers 4 of 9		• Brokers 3 of 3		-						- Clear
=	TOPICS (5) BROKERS (3)									C	② 30 minutes →
	Producers (4)									Consumer Gro	oups (2)
•	ACTIVE (4) PASSIVE (0) ALL MESSAGES \$	0	heartbeats	172 KB		1.8k		Q	~	ACTIVE (2) P	
₹		ø	connect-status					Q	~	group_1 Consumer G	0 iroups: group_1
₽;	producer_1 91 producer_2 91									LAG 0 PROFILE FILT	ER
A	producer_z 91	9	connect-offsets					Q	~		
	l	•0	a_topic	21 KB	15 KB	182	2	۹	~	J	
		0	_CruiseControlMetrics	533 KB	533 KB	50k		Q	~		

After you click group_1 consumer group, you can see that it consumes from the topic called a_topic, and that two producers produce to that topic (producer_1 and producer_2).

If you are interested in a more detailed view and want to check the lineage information for a single partition, you can do that as well, however, it is important to note that the lineage information is provided exclusively for the last 30 minutes. For example, click P3, as shown in the following image:

•	Overview												r: Cluster
- 636	Producers (4)											Consumer Groups (2)	
- 49	ACTIVE (4) PASSIVE (0) ALL MESSAGES \$		heartbeats		172 KB		1.8k		۹		~	ACTIVE (2) PASSIVE (0)	LAG \$
												group_1	0
			connect-st	tatus					Q		~	group_2	0
•	producer_1 91										-		
•0	producer_2 91	O	connect-o	ffsets					Q		~		
=			a_topic		21 KB	15 KB	182	2	Q		~		
₽ : ▲													
			🕑 16 🛛 F			a_topic - P3 is shown only for the ents!	recently						
			♥18 F	21 4 KB in	active cli DATA IN								
			🔁 14 F	2 3 KB in	DATA OU PROFIL	T 4204	RE						
		ľ	😋 16 F	23 5 KB in	4 KB out					18	J		
			🛃 18 F	24 5 KB in	3 KB out	ALL PARTITION	s						

After you click P3 partition in the topic called a_topic, you can see that producer_1 and producer_2 produce to that partition, and group_1 and group_2 consume from it.

If you click the All Partitions button, you are shown the lineage information for every partition in a single topic.

ht.	Overview											
æ	Producers (4)										Consumer Groups (2)	
	ACTIVE (4) PASSIVE (0) MESS		heartbeats	172 KB		1.8k		۹		~	ACTIVE (2) PASSIVE (0)	
			connect-status					Q		~	group_1 group_2	0
•	producer_1	91								_		
•)	producer_2	91	connect-offsets					Q		~		
=			a_topic		o topio	_	2					
R;			a_topic		: a_topic e is shown only for t clients!	he recently	2	Q				
Δ			Replication Factor: (2)	nSync Replicas: 10 (PROF	LE FILTER EXPI	ORE						
			16 P0 4 KB in	3 KB out					14	1		
L			18 P1 4KB in	3 KB out					16			
			▶ 14 P2 3 KB m	2 KB out					18			
			▶ 16 P3 5 KB in	4 KB out					18			
			18 P4 5 KB in	3 KB out					14	J		

You can also access the lineage information from the experimental endpoints. You can find the endpoints at the *Streams Messaging Manager REST API Reference*.

Related Information

Streams Messaging Manager REST API Reference