Kafka REST API SwaggerUI

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Chapter 1. Overview

Kafka REST API SwaggerUI

1.1. Version information

Version : 0.1.0

1.2. Contact information

Contact : gnuhpc
Contact Email : gnuhpc@gmail.com

1.3. URI scheme

Host : localhost:8080
BasePath : /

1.4. Tags

- collector-controller : Rest API for Collecting JMX Metric Data
- kafka-controller : Kafka Controller
- user-controller : Security User Management Controller.
- zookeeper-controller : Zookeeper Controller

Chapter 2. Chapter of manual content 1

This is some dummy text

2.1. Sub chapter

Dummy text of sub chapter

Chapter 3. Chapter of manual content 2

This is some dummy text

Chapter 4. Resources

4.1. Collector-controller

Rest API for Collecting JMX Metric Data

4.1.1. Fetch all JMX metric data

```
GET /jmx/v1
```

Parameters

Type	Name	Description	Schema
Query	**jmxurl** *optional*	Parameter jmxurl should be a comma-separated list of {IP:Port} or set to 'default'	string

Responses

HTTP Code	Description	Schema
200	OK	< JMXMetricDataV1 > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.1.2. Fetch JMX metric data with query filter. You can get the query filter template through the API /jmx/v2/filters.

```
POST /jmx/v2
```

Parameters

Type	Name	Description	Schema
Query	**jmxurl** *optional*	Parameter jmxurl should be a comma-separated list of {IP:Port} or set to 'default'	string
Body	**jmxQuery** *required*	jmxQuery	JMXQuery

Responses

HTTP Code	Description	Schema
200	OK	< JMXMetricData > array
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.1.3. List the query filter templates with the filterKey. If filterKey is set to empty, it will return all the templates.

```
GET /jmx/v2/filters
```

Parameters

Type	Name	Description	Schema
Query	**filterKey** *required*	filterKey	string

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2. Kafka-controller

Kafka Controller

4.2.1. List brokers in this cluster

```
GET /kafka/brokers
```

Responses

HTTP Code	Description	Schema
200	OK	< BrokerInfo > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.2. Get the message from the offset of the partition in the topic, decoder is not supported yet

```
GET /kafka/consumer/{topic}/{partition}/{offset}
```

Parameters

Type	Name	Description	Schema
Path	**offset** *required*	offset	integer(int64)
Path	**partition** *required*	partition	integer(int32)
Path	**topic** *required*	topic	string
Query	**decoder** *optional*	decoder	string

Responses

HTTP Code	Description	Schema
200	OK	string
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.3. Delete old Consumer Group

```
DELETE /kafka/consumergroup/{consumergroup}
```

Parameters

Type	Name	Description	Schema
Path	**consumergroup** *required*	consumergroup	string

Responses

HTTP Code	Description	Schema
200	OK	GeneralResponse
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.4. getLastCommitTimestamp

```
GET /kafka/consumergroup/{consumergroup}/{type}/topic/{topic}/lastcommittime
```

Parameters

Type	Name	Description	Schema
Path	**consumergroup** *required*	consumergroup	string
Path	**topic** *required*	topic	string
Path	**type** *required*	type	enum (NEW, OLD)

Responses

HTTP Code	Description	Schema
200	OK	< string, < string, integer(int64) > map > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.5. Reset consumer group offset, earliest/latest can be used

```
PUT /kafka/consumergroup/{consumergroup}/{type}/topic/{topic}/{partition}/{offset}
```

Parameters

Type	Name	Description	Schema
Path	**consumergroup** *required*	consumergroup	string
Path	**offset** *required*	offset	string
Path	**partition** *required*	partition	integer(int32)
Path	**topic** *required*	topic	string
Path	**type** *required*	type	enum (NEW, OLD)

Responses

HTTP Code	Description	Schema
200	OK	GeneralResponse
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.6. List all consumer groups from zk and kafka

```
GET /kafka/consumergroups
```

Parameters

Type	Name	Description	Schema
Query	**topic** *optional*	topic	string
Query	**type** *optional*	type	enum (NEW, OLD)

Responses

HTTP Code	Description	Schema
200	OK	< string, < string > array > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.7. Describe consumer groups, showing lag and offset, may be slow if multi topic are listened

```
GET /kafka/consumergroups/{consumerGroup}/{type}
```

Parameters

Type	Name	Description	Schema
Path	**consumerGroup** *required*	consumerGroup	string
Path	**type** *required*	type	enum (NEW, OLD)

Responses

HTTP Code	Description	Schema
200	OK	< string, < ConsumerGroupDesc > array > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.8. Get the topics involved of the specify consumer group

```
GET /kafka/consumergroups/{consumerGroup}/{type}/topic
```

Parameters

Type	Name	Description	Schema
Path	**consumerGroup** *required*	consumerGroup	string
Path	**type** *required*	type	enum (NEW, OLD)

Responses

HTTP Code	Description	Schema
200	OK	< string > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.9. Describe consumer groups by topic, showing lag and offset

```
GET /kafka/consumergroups/{consumerGroup}/{type}/topic/{topic}
```

Parameters

Type	Name	Description	Schema
Path	**consumerGroup** *required*	consumerGroup	string

Type	Name	Description	Schema
Path	**topic** *required*	topic	string
Path	**type** *required*	type	enum (NEW, OLD)

Responses

HTTP Code	Description	Schema
200	OK	< ConsumerGroupDesc > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.10. Check the cluster health.

```
GET /kafka/health
```

Responses

HTTP Code	Description	Schema
200	OK	HealthCheckResult
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.11. Add a partition to the topic

```
POST /kafka/partitions/add
```

Parameters

Type	Name	Description	Schema
Body	**addPartition** *required*	addPartition	AddPartition

Responses

HTTP Code	Description	Schema
200	OK	TopicMeta
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.12. Check the partition reassignment process

```
PUT /kafka/partitions/reassign/check
```

Parameters

Type	Name	Description	Schema
Body	**reassignStr** *required*	reassignStr	string

Responses

HTTP Code	Description	Schema
-1	Reassignment Failed	No Content
0	Reassignment In Progress	No Content
1	Reassignment Completed	No Content
200	OK	< string, integer(int32) > map
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.13. Execute the partition reassignment

```
PUT /kafka/partitions/reassign/execute
```

Parameters

Type	Name	Description	Schema
Body	**reassignStr** *required*	reassignStr	string

Responses

HTTP Code	Description	Schema
200	OK	< string, integer(int32) > map
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.14. Generate plan for the partition reassignment

```
POST /kafka/partitions/reassign/generate
```

Parameters

Type	Name	Description	Schema
Body	**reassignWrapper** *required*	reassignWrapper	ReassignWrapper

Responses

HTTP Code	Description	Schema
200	OK	< string > array
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.15. List topics

```
GET /kafka/topics
```

Responses

HTTP Code	Description	Schema
200	OK	< string > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.16. Create a topic

```
POST /kafka/topics/create
```

Parameters

Type	Name	Description	Schema
Query	**reassignStr** *optional*	reassignStr	string
Body	**topic** *required*	topic	TopicDetail

Responses

HTTP Code	Description	Schema
201	Created	TopicMeta
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.17. Describe a topic by fetching the metadata and config

```
GET /kafka/topics/{topic}
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string

Responses

HTTP Code	Description	Schema
200	OK	TopicMeta
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.18. Delete a topic (you should enable topic deletion

```
DELETE /kafka/topics/{topic}
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string

Responses

HTTP Code	Description	Schema
200	OK	GeneralResponse
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.19. Create topic configs

```
POST /kafka/topics/{topic}/conf
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string

Type	Name	Description	Schema
Body	**prop** *required*	prop	< string, object > map

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.20. Get topic configs

```
GET /kafka/topics/{topic}/conf
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
401	Unauthorized	No Content

HTTP Code	Description	Schema
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.21. Update topic configs

```
PUT /kafka/topics/{topic}/conf
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string
Body	**prop** *required*	prop	< string, object > map

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.22. Delete topic configs

```
DELETE /kafka/topics/{topic}/conf
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string
Body	**delProps** *required*	delProps	< string > array

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.23. Get topic config by key

```
GET /kafka/topics/{topic}/conf/{key}
```

Parameters

Type	Name	Description	Schema
Path	**key** *required*	key	string
Path	**topic** *required*	topic	string

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.24. Delete a topic config by key

```
DELETE /kafka/topics/{topic}/conf/{key}
```

Parameters

Type	Name	Description	Schema
Path	**key** *required*	key	string
Path	**topic** *required*	topic	string

Responses

HTTP Code	Description	Schema
200	OK	boolean
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.25. Create a topic config by key

```
POST /kafka/topics/{topic}/conf/{key}={value}
```

Parameters

Type	Name	Description	Schema
Path	**key** *required*	key	string
Path	**topic** *required*	topic	string
Path	**value** *required*	value	string

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.26. Update a topic config by key

```
PUT /kafka/topics/{topic}/conf/{key}={value}
```

Parameters

Type	Name	Description	Schema
Path	**key** *required*	key	string
Path	**topic** *required*	topic	string
Path	**value** *required*	value	string

Responses

HTTP Code	Description	Schema
200	OK	< string, object > map
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.27. Tell if a topic exists

```
GET /kafka/topics/{topic}/exist
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string

Responses

HTTP Code	Description	Schema
200	OK	boolean
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.2.28. Write a message to the topic, for testing purpose

```
POST /kafka/topics/{topic}/write
```

Parameters

Type	Name	Description	Schema
Path	**topic** *required*	topic	string
Body	**message** *required*	message	string

Responses

HTTP Code	Description	Schema
201	Created	GeneralResponse
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `text/plain`

Produces

- `/`

4.2.29. List topics Brief

```
GET /kafka/topicsbrief
```

Responses

HTTP Code	Description	Schema
200	OK	< TopicBrief > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.3. User-controller

Security User Management Controller.

4.3.1. Add user.

```
POST /users
```

Parameters

Type	Name	Description	Schema
Body	**user** *required*	user	User

Responses

HTTP Code	Description	Schema
200	OK	GeneralResponse
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.3.2. Get user list.

```
GET /users
```

Responses

HTTP Code	Description	Schema
200	OK	< string > array
401	Unauthorized	No Content
403	Forbidden	No Content

HTTP Code	Description	Schema
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.3.3. Modify user information.

```
PUT /users
```

Parameters

Type	Name	Description	Schema
Body	**user** *required*	user	User

Responses

HTTP Code	Description	Schema
200	OK	GeneralResponse
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.3.4. Delete user.

```
DELETE /users/{username}
```

Parameters

Type	Name	Description	Schema
Path	**username** *required*	username	string

Responses

HTTP Code	Description	Schema
200	OK	GeneralResponse
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Consumes

- `application/json`

Produces

- `/`

4.4. Zookeeper-controller

Zookeeper Controller

4.4.1. Get the connection state of zookeeper

```
GET /zk/connstate
```

Responses

HTTP Code	Description	Schema
200	OK	string
401	Unauthorized	No Content

HTTP Code	Description	Schema
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.4.2. Get the environment information of zookeeper

```
GET /zk/env
```

Responses

HTTP Code	Description	Schema
200	OK	< string, ZkServerEnvironment > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.4.3. List a zookeeper path

```
GET /zk/ls/{path}
```

Parameters

Type	Name	Description	Schema
Path	**path** *required*	path	string

Responses

HTTP Code	Description	Schema
200	OK	< string > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

4.4.4. Get the service state of zookeeper

```
GET /zk/stat
```

Responses

HTTP Code	Description	Schema
200	OK	< string, ZkServerStat > map
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- /

Chapter 5. Definitions

5.1. AddPartition

Name	Schema
numPartitionsAdded *optional*	integer(int32)
replicaAssignment *optional*	string
topic *optional*	string

5.2. BrokerInfo

Name	Schema
endPoints *optional*	< string > array
host *optional*	string
id *optional*	integer(int32)
jmxPort *optional*	integer(int32)
port *optional*	integer(int32)
rack *optional*	string
securityProtocol *optional*	object
startTime *optional*	string(date-time)
version *optional*	integer(int32)

5.3. ConsumerGroupDesc

Name	Schema
consumerId *optional*	string
currentOffset *optional*	integer(int64)
groupName *optional*	string
host *optional*	string
lag *optional*	integer(int64)
logEndOffset *optional*	integer(int64)
partitionId *optional*	integer(int32)
state *optional*	enum (RUNNING, PENDING)
topic *optional*	string
type *optional*	enum (NEW, OLD)

5.4. GeneralResponse

Name	Schema
msg *optional*	string
state *optional*	enum (success, failure)

5.5. HashMap«string,object»

Type : < string, object > map

5.6. HealthCheckResult

Name	Description	Schema
msg *optional*		string
status *optional*		string
timestamp *optional*	**Example** : `"yyyy-MM-dd HH:mm:ss"`	string

5.7. HostAndPort

Name	Schema
hostText *optional*	string
port *optional*	integer(int32)

5.8. JMXConfiguration

Name	Schema
exclude *optional*	JMXFilter
include *optional*	JMXFilter

5.9. JMXFilter

Name	Schema
attribute *optional*	object
beanNames *optional*	< string > array
beanRegexes *optional*	< Pattern > array
domain *optional*	string
domainRegex *optional*	Pattern

Name	Schema
emptyBeanName *optional*	boolean
filter *optional*	< string, object > map

5.10. JMXMetricData

Name	Description	Schema
collected *optional*		boolean
host *optional*		string
metrics *optional*		< HashMap«string,object» > array
msg *optional*		string
timestamp *optional*	**Example** : `"yyyy-MM-dd HH:mm:ss"`	string

5.11. JMXMetricDataV1

Name	Description	Schema
collected *optional*		boolean
host *optional*		string
mbeanInfo *optional*		object
msg *optional*		string
timestamp *optional*	**Example** : `"yyyy-MM-dd HH:mm:ss"`	string

5.12. JMXQuery

Name	Schema
filters *optional*	< JMXConfiguration > array

5.13. Map«int,long»

Type : < string, integer(int64) > map

5.14. Pattern

Name	Schema
cursor *optional*	integer(int32)

5.15. ReassignWrapper

Name	Schema
brokers *optional*	< integer(int32) > array
topics *optional*	< string > array

5.16. TopicAndPartition

Type : object

5.17. TopicBrief

Name	Schema
isrRate *optional*	number(double)
numPartition *optional*	integer(int32)
topic *optional*	string

5.18. TopicDetail

Name	Schema
factor *optional*	integer(int32)
name *optional*	string
partitions *optional*	integer(int32)
prop *optional*	< string, object > map

5.19. TopicMeta

Name	Schema
partitionCount *optional*	integer(int32)
replicationFactor *optional*	integer(int32)
topicCustomConfigs *optional*	< string, object > map
topicName *optional*	string
topicPartitionInfos *optional*	< TopicPartitionInfo > array

5.20. TopicPartitionInfo

Name	Schema
endOffset *optional*	integer(int64)
in_sync *optional*	boolean
isr *optional*	< string > array
leader *optional*	string

Name	Schema
messageAvailable *optional*	integer(int64)
partitionId *optional*	integer(int32)
replicas *optional*	< string > array
startOffset *optional*	integer(int64)

5.21. User

Name	Schema
password *optional*	string
role *optional*	string
username *optional*	string

5.22. ZkServerClient

Name	Schema
host *optional*	string
ops *optional*	integer(int32)
port *optional*	integer(int32)
queued *optional*	integer(int32)
received *optional*	integer(int32)
sent *optional*	integer(int32)

5.23. ZkServerEnvironment

Name	Schema
attributes *optional*	< string, string > map

5.24. ZkServerStat

Name	Schema
avgLatency *optional*	integer(int32)
buildDate *optional*	string
clients *optional*	< ZkServerClient > array
connections *optional*	integer(int32)
maxLatency *optional*	integer(int32)
minLatency *optional*	integer(int32)
mode *optional*	enum (Leader, Follower, Observer)
nodes *optional*	integer(int32)
outstanding *optional*	integer(int32)
received *optional*	integer(int32)
sent *optional*	integer(int32)
version *optional*	string
zxId *optional*	string