KAFKA version 2.11-2.0.0

RPM PACKAGE: VZkafka-2.11.2-Linux64.rpm

- 1. This package requires the id kafka with the group kafka to exist prior to installation. All commands should be run as a member of the kafka group or as the kafka id.
- 2. This package requires one SSI file of the form host.localhost.kafka with the contents (example only):

SERVERS=serv1,serv2

SERVER JAVA HOME="\/apps\/opt\/jdk180 181 64"

- 3. This package is distributed with zookeeper and kafka-manager-1.3.3.16.
- 4. Middleware team has created this package to be used in AWS with automated rehydration by providing Kafka Servers to be defined in the host.localhost.kafka and specific configuration of this server to be defined in the host.localhost.SERVER NAME where SERVER NAME is a unique name.

The host.localhost.SERVER_NAME optional ssi file is to be the /apps/opt/kafka/config/server.properties file with the changes specific for this SERVER.

The host.localhost.zookeeper optional ssi file is to be the /apps/opt/kafka/config/zookeeper.properties file which changes specific for this application's zookeeper.

5. Additionally, Middleware has added a menu (/apps/opt/kafka/scripts/menu) which allows easy usage of the kafka software. Here are the menu items:

The scripts behind this menu can be found in the /apps/opt/kafka/scripts directory. In here I also provide example consumer and message sending scripts which can be modified as needed for testing. Additionally, middleware has provided the script to list the topics which can also be modified as you see fit for testing.

- 6. Please contact the middleware group for any enhancement and we will add them so others can benefit from your ideas.
- 7. Additional information on Kafka and it's usage can be found on the Web.

Example of the SSI file host.localhost.SERVER_NAME: # Licensed to the Apache Software Foundation (ASF) under one or more # contributor license agreements. See the NOTICE file distributed with

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# this work for additional information regarding copyright ownership.
# The ASF licenses this file to You under the Apache License, Version 2.0
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# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
# see kafka.server.KafkaConfig for additional details and defaults
# The id of the broker. This must be set to a unique integer for each broker.
broker.id=0
# The address the socket server listens on. It will get the value returned from
# java.net.InetAddress.getCanonicalHostName() if not configured.
# FORMAT:
# listeners = listener name://host name:port
# EXAMPLE:
# listeners = PLAINTEXT://your.host.name:9092
#listeners=PLAINTEXT://:9092
# Hostname and port the broker will advertise to producers and consumers. If not
set,
# it uses the value for "listeners" if configured. Otherwise, it will use the v
# returned from java.net.InetAddress.getCanonicalHostName().
#advertised.listeners=PLAINTEXT://your.host.name:9092
# Maps listener names to security protocols, the default is for them to be the s
ame. See the config documentation for more details
#listener.security.protocol.map=PLAINTEXT:PLAINTEXT,SSL:SSL,SASL_PLAINTEXT:SASL_
PLAINTEXT, SASL SSL: SASL SSL
# The number of threads that the server uses for receiving requests from the net
work and sending responses to the network
num.network.threads=3
# The number of threads that the server uses for processing requests, which may
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include disk I/O

num.io.threads=8

The send buffer (SO_SNDBUF) used by the socket server socket.send.buffer.bytes=102400

The receive buffer (SO_RCVBUF) used by the socket server socket.receive.buffer.bytes=102400

The maximum size of a request that the socket server will accept (protection a gainst OOM) socket.request.max.bytes=104857600

A comma separated list of directories under which to store log files log.dirs=/tmp/kafka-logs

The default number of log partitions per topic. More partitions allow greater # parallelism for consumption, but this will also result in more files across # the brokers.
num.partitions=1

The number of threads per data directory to be used for log recovery at startup and flushing at shutdown.

This value is recommended to be increased for installations with data dirs loc ated in RAID array.

num.recovery.threads.per.data.dir=1

The replication factor for the group metadata internal topics "__consumer_offs ets" and " transaction state"

For anything other than development testing, a value greater than 1 is recomme nded for to ensure availability such as 3.

offsets.topic.replication.factor=1

transaction.state.log.replication.factor=1

transaction.state.log.min.isr=1

Messages are immediately written to the filesystem but by default we only fsyn c() to sync

the OS cache lazily. The following configurations control the flush of data to disk.

There are a few important trade-offs here:

- # 1. Durability: Unflushed data may be lost if you are not using replication.
- # 2. Latency: Very large flush intervals may lead to latency spikes when the flush does occur as there will be a lot of data to flush.

- # 3. Throughput: The flush is generally the most expensive operation, and a s mall flush interval may lead to excessive seeks.
- # The settings below allow one to configure the flush policy to flush data after a period of time or
- # every N messages (or both). This can be done globally and overridden on a pertopic basis.
- # The number of messages to accept before forcing a flush of data to disk #log.flush.interval.messages=10000

- # The following configurations control the disposal of log segments. The policy can
- # be set to delete segments after a period of time, or after a given size has ac cumulated.
- # A segment will be deleted whenever *either* of these criteria are met. Deletion always happens
- # from the end of the log.
- # The minimum age of a log file to be eligible for deletion due to age log.retention.hours=168
- # A size-based retention policy for logs. Segments are pruned from the log unles s the remaining
- # segments drop below log.retention.bytes. Functions independently of log.retent ion.hours.
- #log.retention.bytes=1073741824
- # The maximum size of a log segment file. When this size is reached a new log se gment will be created.
- log.segment.bytes=1073741824
- # The interval at which log segments are checked to see if they can be deleted a ccording
- # to the retention policies
- log.retention.check.interval.ms=300000

- # Zookeeper connection string (see zookeeper docs for details).
- # This is a comma separated host:port pairs, each corresponding to a zk
- # server. e.g. "127.0.0.1:3000,127.0.0.1:3001,127.0.0.1:3002".
- # You can also append an optional chroot string to the urls to specify the
- # root directory for all kafka znodes.
- zookeeper.connect=localhost:2181
- # Timeout in ms for connecting to zookeeper zookeeper.connection.timeout.ms=6000

```
# server. e.g. "127.0.0.1:3000,127.0.0.1:3001,127.0.0.1:3002".
# You can also append an optional chroot string to the urls to specify the
# root directory for all kafka znodes.
zookeeper.connect=localhost:2181
# Timeout in ms for connecting to zookeeper
zookeeper.connection.timeout.ms=6000
######
# The following configuration specifies the time, in milliseconds, that the Grou
pCoordinator will delay the initial consumer rebalance.
# The rebalance will be further delayed by the value of group.initial.rebalance.
delay.ms as new members join the group, up to a maximum of max.poll.interval.ms.
# The default value for this is 3 seconds.
# We override this to 0 here as it makes for a better out-of-the-box experience
for development and testing.
# However, in production environments the default value of 3 seconds is more sui
table as this will help to avoid unnecessary, and potentially expensive, rebalan
ces during application startup.
group.initial.rebalance.delay.ms=0
Example of the SSI file host.localhost.zookeeper:
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Licensed to the Apache Software Foundation (ASF) under one or more # contributor license agreements. See the NOTICE file distributed with # this work for additional information regarding copyright ownership. # The ASF licenses this file to You under the Apache License, Version 2.0 # (the "License"); you may not use this file except in compliance with # the License. You may obtain a copy of the License at # # http://www.apache.org/licenses/LICENSE-2.0 # # Unless required by applicable law or agreed to in writing, software # distributed under the License is distributed on an "AS IS" BASIS, # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. # See the License for the specific language governing permissions and # limitations under the License. # the directory where the snapshot is stored. dataDir=/tmp/zookeeper # the port at which the clients will connect clientPort=2181 # disable the per-ip limit on the number of connections since this is a non-prod uction config maxClientCnxns=0