

kafka 구축

☑ 내용유무	☑
≡ FE/BE/INFRA	data
≡ 작성자	승엽 종호
≡ 중요도	★★★★★

kafka 설치

```
wget https://downloads.apache.org/kafka/3.4.0/kafka_2.12-3.4.0.tgz
tar -xvzf kafka_2.12-3.4.0.tgz
```

kafka 환경설정

- Server.properties

```
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#
# This configuration file is intended for use in ZK-based mode, where Apache ZooKeeper is required.
# See kafka.server.KafkaConfig for additional details and defaults
#

##### Server Basics #####

# The id of the broker. This must be set to a unique integer for each broker.
broker.id=0
delete.topic.enable = true

##### Socket Server Settings #####

# The address the socket server listens on. If not configured, the host name will be equal to the value of
# java.net.InetAddress.getCanonicalHostName(), with PLAINTEXT listener name, and port 9092.
#   FORMAT:
#   listeners = listener_name://host_name:port
#   EXAMPLE:
#   listeners = PLAINTEXT://your.host.name:9092

# Listener name, hostname and port the broker will advertise to clients.
# If not set, it uses the value for "listeners".
advertised.listeners=PLAINTEXT://도메인:9092

# Maps listener names to security protocols, the default is for them to be the same. 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 network and sending responses to the network
num.network.threads=3

# The number of threads that the server uses for processing requests, which may 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 against OOM)
socket.request.max.bytes=104857600

##### Log Basics #####

# A comma separated list of directories under which to store log files
log.dirs=/home/ubuntu/data/kafka

# 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 located in RAID array.
num.recovery.threads.per.data.dir=1

##### Internal Topic Settings #####
# The replication factor for the group metadata internal topics "__consumer_offsets" and "__transaction_state"
# For anything other than development testing, a value greater than 1 is recommended to ensure availability such as 3.
offsets.topic.replication.factor=1
transaction.state.log.replication.factor=1
transaction.state.log.min.isr=1

##### Log Flush Policy #####

# Messages are immediately written to the filesystem but by default we only fsync() 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
#   3. Throughput: The flush is generally the most expensive operation, and a small 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 per-topic basis.

# The number of messages to accept before forcing a flush of data to disk
#log.flush.interval.messages=10000

# The maximum amount of time a message can sit in a log before we force a flush
#log.flush.interval.ms=1000

##### Log Retention Policy #####

# 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 accumulated.
# 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 unless the remaining
# segments drop below log.retention.bytes. Functions independently of log.retention.hours.
#log.retention.bytes=1073741824

# The interval at which log segments are checked to see if they can be deleted according
# to the retention policies
log.retention.check.interval.ms=300000

##### Zookeeper #####

# 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=18000

##### Group Coordinator Settings #####

# The following configuration specifies the time, in milliseconds, that the GroupCoordinator will delay the initial consumer rebal
# The rebalance will be further delayed by the value of group.initial.rebalance.delay.ms as new members join the group, up to a max
# 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 suitable as this will help to avoid unnecessary, and
group.initial.rebalance.delay.ms=0

```

kafka-server 실행

```
kafka-server.sh ~/kafka/config/server.properties
```

kafka-topic 만들기

```
kafka-topics.sh --create --topic [토픽명] --bootstrap-server [설정 도메인]:9092 --replication-factor 1 --partitions=
```

트리블슈팅

1. kafka-server.sh 로만 킬 경우 default 설정값으로 실행됨