# Vertica

## ##查看表

select table\_name from v\_catalog.tables

##COPY FROM KAFKA

COPY PERF\_SYSTEM SOURCE KafkaSource(stream='system|0|-3,system|1|-3,system|2|-3',

brokers='192.168.21.188:9092',

stop\_on\_eof=True,

group\_id='vertica\_manual')

FILTER KafkaInsertDelimiters(delimiter = E'\n')

DELIMITER ','

REJECTED DATA AS TABLE SYSTEM\_rejections DIRECT;

## ##tmp

SELECT \* FROM SYSTEM;

SELECT \* FROM SYSTEM\_rejections;

DROP TABLE SYSTEM\_rejections;

## ##查看表大小

### column\_storage

SELECT anchor\_table\_schema,

anchor\_table\_name,

SUM(used\_bytes) / ( 1024^3 ) AS used\_compressed\_gb

FROM v\_monitor.column\_storage

GROUP BY anchor\_table\_schema,

anchor\_table\_name

ORDER BY SUM(used\_bytes) DESC;

### projection\_storage

SELECT anchor\_table\_schema,

anchor\_table\_name,

SUM(used\_bytes) / ( 1024^1 ) AS used\_compressed\_kb

FROM v\_monitor.projection\_storage

GROUP BY anchor\_table\_schema,

anchor\_table\_name

ORDER BY SUM(used\_bytes) DESC;

The *start\_offset* portion of the stream parameter lets you start loading messages from a specific point in the topic's partition. It also accepts one of two special offset values:

-2 tells KafkaSource to start loading at the earliest available message in the topic's partition. This value is useful when you want to load as many messages as you can from the Kafka topic's partition.

-3 tells KafkaSource to start loading from the consumer group's saved offset. If the consumer group does not have a saved offset, it starts loading from the earliest available message in the topic partition. See Monitoring Vertica Message Consumption with Consumer Groups for more information.

###修改用户密码

ALTER USER Fred IDENTIFIED BY 'newpassword';

### 从Kafka同步消息

export PATH=/opt/vertica/packages/kafka/bin:$PATH

### Vertica 安装

1. 需要有/opt/vertica和/home/dbadmin的读写权限；

2. 启动DB过程中不一定要使用root用户

安装前的检查：

1. 安装perl5

2. 性能测试vcpuperf、vioperf、vnetperf

vcpuperf

vioperf

vnetperf

3. 强烈推荐配置相同的服务器作为集群

4. 使用bash

5. 可以在安装时通过—data-dir 来指定数据目录

6. 不推荐硬盘使用率超过60%在k-safe=1的情况下

7. 确保网络端口生效：

TCP 22

TCP 5433 Vertica JDBC Client 连接端口

TCP 5434

UDP 5433 Vertica SPREAD监控端口

TCP 5444 Vertica 节点间通信端口

TCP 4803 SPREAD通信

UDP 4803 4804 6543

8. 文件系统格式为ext4

9. Disk Readahead

/sbin/blockdev --setra 2048 /dev/sda1

/sbin/blockdev --setra 2048 /dev/sdaN

10 NTP服务

11 chrony 启动

systemctl status chronyd

12 关闭SELinux

13 Transparent Hugepages 设置为always在RH7 CENTOS7 系统上，其他是系统设置为disabled

cat /sys/kernel/mm/redhat\_transparent\_hugepage/enabled

echo never > /sys/kernel/mm/redhat\_transparent\_hugepage/enabled

14 配置IO Scheduling

<https://www.vertica.com/docs/9.2.x/HTML/Content/Authoring/InstallationGuide/BeforeYouInstall/IOScheduling.htm>

15 export LANG=en\_US.UTF8

安装开始：

1. rpm –Uvh 包

2. /opt/vertica/sbin/install\_vertica --hosts node0001,node0002,node0003 \

--rpm /tmp/vertica-9.1.1-0.x86\_64.RHEL6.rpm \

--dba-user mydba