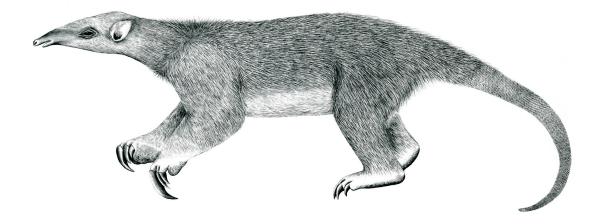
Tranalyzer2

kafkaSink



Apache Kafka



Tranalyzer Development Team

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1 kafkaSink

1.1 Description

The kafkaSink plugin outputs flows to an Apache Kafka event streaming platform.

1.2 Dependencies

1.2.1 External Libraries

This plugin depends on the librdkafka library.

		OPT2=1
Ubuntu:	sudo apt-get install	librdkafka-dev
Arch:	sudo pacman -S	librdkafka
Gentoo:	sudo emerge	librdkafka
openSUSE:	sudo zypper install	librdkafka-devel
Red Hat/Fedora ¹ :	sudo dnf install	librdkafka-devel
macOS ² :	brew install	librdkafka

1.2.2 Core Configuration

This plugin requires the following core configuration:

- \$T2HOME/tranalyzer2/src/tranalyzer.h:
 - BLOCK_BUF=0

1.3 Services Initialization

The kafkaSink plugin requires a ZooKeeper and a Kafka broker service running on KAFKA_BROKERS (default address and port are 127.0.0.1:9092).

```
# Start the ZooKeeper server and send it to the background
```

\$ zookeeper-server-start.sh /etc/kafka/zookeeper.properties &

```
# Start the Kafka server and send it to the background
```

\$ kafka-server-start.sh /etc/kafka/server.properties &

 $^{^{1}\}mbox{If the dnf}$ command could not be found, try with \mbox{yum} instead

 $^{^2}Brew$ is a packet manager for macOS that can be found here: <code>https://brew.sh</code>

1.4 Configuration Flags

The following flags can be used to control the output of the plugin:

Name	Default	Description
KAFKA_BROKERS	"127.0.0.1:9092"	Broker address(es)
		(comma separated list of host[:port])
KAFKA_TOPIC	"tranalyzer.flows"	Topic to produce to
KAFKA_PARTITION	-1	Target partition:
		≥ 0 : fixed partition
		-1: automatic partitioning (unassigned)
KAFKA_RETRIES	3	Max. number of retries when message production failed [0 - 255]
KAFKA_DEBUG	0	Print debug messages

1.4.1 Environment Variable Configuration Flags

The following configuration flags can also be configured with environment variables (ENVCNTRL>0):

- KAFKA_BROKERS
- KAFKA_TOPIC
- KAFKA_PARTITION

1.5 Plugin Report Output

The following information is reported:

• Number of flows discarded

1.6 Example

In this example, the flows will be sent to Kafka to the tranalyzer.flows topic. In addition, Tranalyzer information ([INF]) and warnings ([WRN]) will be sent to the tranalyzer.out, while errors ([ERR]) will use the tranalyzer.err topic.

First, we want to prevent Tranalyzer from coloring the output:

\$ t2conf tranalyzer2 -D T2_LOG_COLOR=0

In this example, only the basicFlow and kafkaSink plugins will be used:

\$ t2build tranalyzer2 basicFlow kafkaSink

Now, the fun part! Run Tranalyzer as per usual, but redirect stdout and stderr to a kcat³ process, which will send the data to Kafka:

³kcat was formerly known as kafkacat

1 KAFKASINK 1.6 Example

The messages can now be consumed with the help of kafka-console-consumer.