

#### Cadastro SPTRANS

Criar login no site da sptrans

http://www.sptrans.com.br/desenvolvedores

## Python

sudo yum install python36

alias python='/usr/bin/python3.6'

sudo yum install python36-setuptools

sudo easy\_install-3.6 pip

sudo pip install requests

### Pre-Req

sudo su -

mkdir /etc/yum.repos.d/bkp

mv /etc/yum.repos.d/cloudera-\* /etc/yum.repos.d/bkp

yum clean all

yum check

yum erase apf

yum update ca-certificates

yum upgrade

## Python

sudo yum install centos-release-scl

sudo yum install rh-python36

scl enable rh-python36 bash

sudo easy\_install-3.6 pip

sudo pip install requests

### Diretórios

cd /home/cloudera mkdir sptrans

cd sptrans

# Programa Python

sptrans.py No github

## shell Python

vi sptrans.sh

/opt/rh/rh-python36/root/usr/bin/python sptrans.py

#### Kafka

cd /home/cloudera/kafka\_2.10-0.10.2.1

nohup bin/kafka-server-start.sh config/server.properties &

bin/kafka-topics.sh --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic sptrans

bin/kafka-topics.sh --list --zookeeper localhost:2181

bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic sptrans

#### Flume

```
sptrans.conf
cd apache-flume-1.7.0-bin
conf/
vi sptrans.conf
cd ..
```

bin/flume-ng agent --conf ./conf --conf-file /home/cloudera/sptrans.conf --name sptrans -Dflume.root.logger=INFO,console

#### Hive

```
create external table aula.sptras (
    hora string,
    linha string,
    origem string,
    destino string,
    x string,
    y string)
row format delimited fields terminated by ';'
LOCATION '/aula/sptrans';
```

#### Hive

```
create external table aula.sptras (
    hora string,
    linha string,
    origem string,
    destino string,
    x string,
    y string)
row format delimited fields terminated by ';'
LOCATION '/aula/sptrans';
```

## Análise Spark

/opt/rh/rh-python36/root/usr/bin/python sptrans.py

## FLUME KAFKA sptrans.sources = source1 sptrans.channels = channel1 sptrans.sinks = sink1

#source para executar a shell e dar o get na api sptrans.sources.source1.type = exec sptrans.sources.source1.command = sh /home/cloudera/sptrans.sh sptrans.sources.source1.channels = channel1 sptrans.sources.source1.restartThrottle = 60000 sptrans.sources.source1.restart = true

#canais em memoria sptrans.channels.channel1.type = memory sptrans.channels.channel1.capacity = 100000 sptrans.channels.channel1.transactionCapacity = 100000

#sink para enviar os dados para o Kafka sptrans.sinks.sink1.channel = channel1 sptrans.sinks.sink1.type = org.apache.flume.sink.kafka.KafkaSink sptrans.sinks.sink1.kafka.topic = sptrans sptrans.sinks.sink1.kafka.bootstrap.servers = localhost:9092 sptrans.sinks.sink1.kafka.flumeBatchSize = 200 sptrans.sinks.sink1.kafka.producer.acks = 1 sptrans.sinks.sink1.kafka.producer.linger.ms = 1