package com.twitter.recosinjector.publishers

import com.twitter.finagle.stats.StatsReceiver

import com.twitter.finagle.thrift.ClientId

import com.twitter.finatra.kafka.producers.FinagleKafkaProducerBuilder

import com.twitter.finatra.kafka.serde.ScalaSerdes

import com.twitter.recos.internal.thriftscala.RecosHoseMessage

import org.apache.kafka.clients.CommonClientConfigs

import org.apache.kafka.clients.producer.ProducerRecord

import org.apache.kafka.common.config.SaslConfigs

import org.apache.kafka.common.config.SslConfigs

import org.apache.kafka.common.security.auth.SecurityProtocol

import org.apache.kafka.common.serialization.StringSerializer

case class KafkaEventPublisher(

kafkaDest: String,

outputKafkaTopicPrefix: String,

clientId: ClientId,

truststoreLocation: String) {

private val producer = FinagleKafkaProducerBuilder[String, RecosHoseMessage]()

.dest(kafkaDest)

.clientId(clientId.name)

.keySerializer(new StringSerializer)

.valueSerializer(ScalaSerdes.Thrift[RecosHoseMessage].serializer)

.withConfig(CommonClientConfigs.SECURITY\_PROTOCOL\_CONFIG, SecurityProtocol.SASL\_SSL.toString)

.withConfig(SslConfigs.SSL\_TRUSTSTORE\_LOCATION\_CONFIG, truststoreLocation)

.withConfig(SaslConfigs.SASL\_MECHANISM, SaslConfigs.GSSAPI\_MECHANISM)

.withConfig(SaslConfigs.SASL\_KERBEROS\_SERVICE\_NAME, "kafka")

.withConfig(SaslConfigs.SASL\_KERBEROS\_SERVER\_NAME, "kafka")

// Use Native Kafka Client

.buildClient()

def publish(

message: RecosHoseMessage,

topic: String

)(

implicit statsReceiver: StatsReceiver

): Unit = {

val topicName = s"${outputKafkaTopicPrefix}\_$topic"

// Kafka Producer is thread-safe. No extra Future-pool protect.

producer.send(new ProducerRecord(topicName, message))

statsReceiver.counter(topicName + "\_written\_msg\_success").incr()

}

}

object KafkaEventPublisher {

// Kafka topics available for publishing

val UserVideoTopic = "user\_video"

val UserTweetEntityTopic = "user\_tweet\_entity"

val UserUserTopic = "user\_user"

val UserAdTopic = "user\_tweet"

val UserTweetPlusTopic = "user\_tweet\_plus"

}