package com.twitter.product\_mixer.component\_library.module.http

import com.google.inject.Provides

import com.twitter.conversions.DurationOps.\_

import com.twitter.finagle.Http

import com.twitter.finagle.mtls.authentication.ServiceIdentifier

import com.twitter.finagle.stats.StatsReceiver

import com.twitter.inject.TwitterModule

import com.twitter.inject.annotations.Flag

import com.twitter.product\_mixer.shared\_library.http\_client.FinagleHttpClientBuilder.buildFinagleHttpClientMutualTls

import com.twitter.util.Duration

import javax.inject.Named

import javax.inject.Singleton

object FinagleHttpClientModule extends TwitterModule {

final val HttpClientRequestTimeout = "http\_client.request\_timeout"

final val HttpClientConnectTimeout = "http\_client.connect\_timeout"

final val HttpClientAcquisitionTimeout = "http\_client.acquisition\_timeout"

flag[Duration](

name = HttpClientRequestTimeout,

default = 200.milliseconds,

help = "HTTP client request timeout")

flag[Duration](

name = HttpClientConnectTimeout,

default = 500.milliseconds,

help = "HTTP client transport connect timeout")

flag[Duration](

name = HttpClientAcquisitionTimeout,

default = 500.milliseconds,

help = "HTTP client session acquisition timeout")

final val FinagleHttpClientModule = "FinagleHttpClientModule"

/\*\*

\* Provides a Finagle HTTP client with S2S Auth / Mutual TLS

\*

\* Note that the timeouts configured in this module are meant to be a reasonable starting point

\* only. To further tuning the settings, either override the flags or create local copy of the module.

\*

\* @param requestTimeout HTTP client request timeout

\* @param connectTimeout HTTP client transport connect timeout

\* @param acquisitionTimeout HTTP client session acquisition timeout

\* @param serviceIdentifier Service ID used to S2S Auth

\* @param statsReceiver Stats

\*

\* @return Finagle HTTP Client with S2S Auth / Mutual TLS

\*/

@Provides

@Singleton

@Named(FinagleHttpClientModule)

def providesFinagleHttpClient(

@Flag(HttpClientRequestTimeout) requestTimeout: Duration,

@Flag(HttpClientConnectTimeout) connectTimeout: Duration,

@Flag(HttpClientAcquisitionTimeout) acquisitionTimeout: Duration,

serviceIdentifier: ServiceIdentifier,

statsReceiver: StatsReceiver

): Http.Client =

buildFinagleHttpClientMutualTls(

requestTimeout = requestTimeout,

connectTimeout = connectTimeout,

acquisitionTimeout = acquisitionTimeout,

serviceIdentifier = serviceIdentifier,

statsReceiver = statsReceiver

)

}