Сайт для редактирования скрипта для магазина bitrix24:

b24-x5iv25.bitrix24.ru

Сам магазин:

https://b24-dy0v8s.bitrix24.shop/

```
Js для bitrix24
<script src="https://cdnjs.cloudflare.com/ajax/libs/mustache.js/3.0.0/</pre>
mustache.min.js"></script>
<script src="https://code.jquery.com/jquery-3.3.1.js"></script>
<script src="https://requirejs.org/docs/release/2.3.6/minified/</pre>
require.js"></script>
<script>
    requirejs.config({
      paths: {
        divolte: 'http://35.195.166.173:8290/divolte'
    });
    require(['divolte']);
    require(['divolte'], function(divolte) {
      console.log('ok1');
      checkout_click = function() {
        console.log('ok2');
        var id_product = this.id.split('_buy_link')[0];
        var id_price_product = id_product.concat('_price');
        var id_price_total_product = id_product.concat('_price_total');
        var price_product =
document.getElementById(id_price_product).innerHTML.trim();
        try {
            var price_total_product =
document.getElementById(id price total product).innerHTML.trim().split('
<strong>')[1].split('</strong>')[0];
        } catch(err) {
              price_total_product = price_product
        divolte.signal("checkout", {id: id_product,price:
price product,total price: price total product});
        return false;
      $(document.body).on('click', '.btn-primary', checkout click);
    });
</script>
Запуск divote
sudo /home/ubuntu/divolte-collector-0.9.0/bin/divolte-collector
divolte-env.sh
HAD00P_CONF_DIR=/usr/hdp/current/hadoop-client/conf
divolte-collector.conf
divolte {
 mappings {
    my_mapping = {
```

```
schema_file = "/home/ubuntu/divolte-collector-0.9.0/conf/
MyEventRecord0.avsc"
      mapping_script_file = "/home/ubuntu/divolte-collector-0.9.0/conf/
mapping0.groovy"
      sources = [a_source]
      sinks = [kafka]
  }
  global {
    server {
      host = 0.0.0.0
      port = 8290
    kafka {
      // Enable Kafka flushing
      enabled = true
      // The properties under the producer key in this
      // configuration are used to create a Properties object
      // which is passed to Kafka as is. At the very least,
      // configure the broker list here. For more options
      // that can be passed to a Kafka producer, see this link:
      // http://kafka.apache.org/082/
documentation.html#newproducerconfigs
      producer = {
        bootstrap.servers = "instance-1.europe-west1-b.c.de3-
npl.internal:6667"
      }
    }
  }
  sinks {
    // The name of the sink. (It's referred to by the mapping.)
    kafka {
      type = kafka
      // This is the name of the topic that data will be produced on
      topic = andrev.selivanov
    }
  }
  sources {
    a_source {
      type = browser
      // prefix = /tracking
  }
}
MyEventRecord0.avsc - схема avrò для rivolte
  "namespace": "io.divolte.examples.record",
  "type": "record",
  "name": "MyEventRecord",
```

```
"fields": [
    { "name": "sessionId",
                                         "tvpe": "string"},
    { "name": "timestamp", { "name": "referer",
                                         "type": "long" },
                                        "type": "string"},
    { "name": "remoteHost",
                                         "type": "string"},
    { "name": "eventType",
                                          "type": ["null", "string"],
"default": null },
    { "name": "location",
                                          "type": ["null", "string"],
"default": null },
    { "name": "localPath",
                                          "type": ["null", "string"],
"default": null },
    { "name": "userAgent", "type": ["null", "string"], "default":
null },
    { "name": "userAgentDeviceCategory", "type": ["null", "string"],
"default": null },
    { "name": "userAgentOsFamily", "type": ["null", "string"],
"default": null },
    { "name": "userAgentOsVersion", "type": ["null", "string"],
"default": null },
    { "name": "id_product", "type": ["null", "string"], "default":
null },
    { "name": "price_product", "type": ["null", "string"], "default":
null },
    { "name": "total_price_product", "type": ["null", "string"],
"default": null }
  1
}
mapping0.groovy - groovy файл для divolte
mapping {
 map sessionId() onto 'sessionId'
 map timestamp() onto 'timestamp'
 map referer() onto 'referer'
 map remoteHost() onto 'remoteHost'
 map eventType() onto 'eventType'
 map location() onto 'location'
 map userAgentString() onto 'userAgent'
  def ua = userAgent()
 map ua.deviceCategory() onto 'userAgentDeviceCategory'
 map ua.deviceCategory() onto 'userAgentDeviceCategory'
 map ua.osFamily() onto 'userAgentOsFamily'
 map ua.osVersion() onto 'userAgentOsVersion'
 map eventParameters().value('id') onto 'id_product'
 map eventParameters().value('price') onto 'price_product'
 map eventParameters().value('total_price') onto 'total_price_product'
 def locationUri = parse location() to uri
 def localUri = parse locationUri.rawFragment() to uri
 map localUri.path() onto 'localPath'
}
```

kafka_avro2json.py — скрипт для преобразования потока в Avro от divolte в json для ClickHouse

from confluent_kafka import Consumer, Producer, KafkaError

```
from fastavro import writer, reader, parse_schema, schemaless_reader
import ison
import io
with open('/home/ubuntu/divolte-collector-0.9.0/conf/
MyEventRecord0.avsc') as f:
    schema = parse_schema(json.loads(f.read()))
def decode(msg_value):
    message_bytes = io.BytesIO(msg_value)
    return schemaless reader(message bytes, schema)
def get0kk(lst):
    ret ={}
    for x,y in lst.items():
        if x in ['sessionId', 'timestamp', 'location', 'id_product']:
            if x == 'id_product':
                if y != None:
                     ret[x] = v
            else:
                 ret[x] = y
                 if x == 'location':
                     ret['id_item'] = ''
                     z = y.split('/')
                     if len(z) > 3:
                         n = (-2 \text{ if } z[-1] == '' \text{ else } -1)
                         if z[n-1] == 'item':
                             ret['id_item'] = z[n]
        elif x in ['price_product', 'total_price_product']:
            z = y if y == None else float(y[:-5].replace(' ',''))
            if z != None:
                 ret[x] = z
    if ret.get('id product','') > '':
        ret['item_count'] = (None if ret['price_product'] == None else
                              int(ret['total_price_product']/
ret['price_product']))
    return ret
ip, topic = '35.195.166.173:6667', 'andrey.selivanov'
topicTo1, topicTo2 = 'users_json', 'orders_json'
conf = {'bootstrap.servers': ip}
p1 = Producer(**conf)
p2 = Producer(**conf)
c = Consumer(
    {'bootstrap.servers': ip,
     'group.id': 'avro2json_group',
     'auto.offset.reset': 'latest',
     "enable.auto.commit": True})
c.subscribe([topic])
running = True
while running:
    msg = c.poll()
    if not msq.error():
        msg_value = msg.value()
        #print(msg_value)
```

```
try:
            event_dict = get0kk(decode(msg_value))
            if event_dict.get('id_product','') > '':
                p2.produce(topicTo2, json.dumps(event_dict))
            else:
                p1.produce(topicTo1, json.dumps(event dict))
            #print(event_dict)
        except:
            pass
    elif msg.error().code() != KafkaError._PARTITION_EOF:
        print(msq.error())
        running = False
Запуск ClickHouse:

    sudo nano /etc/clickhouse-server/config.xml

    sten host>::</listen host>
sudo service clickhouse-server start
<u>Скрипты для ClickHouse:</u>
создание таблицы статистики по посещению страниц, которая автоматом
забирает записи из потока Кафки:
CREATE TABLE users (
    sessionId String,
    timestamp UInt64,
    location String,
    id_item String
  ) ENGINE = Kafka('35.195.166.173:6667', 'users_json', 'users_group',
'JSONEachRow'):
создание view статистики по посещению страниц, которая сохраняет записи
в нужном формате из users:
CREATE MATERIALIZED VIEW view_users
ENGINE = MergeTree() ORDER BY (timestamp, sessionId, id_item) SETTINGS
index_granularity=8192 POPULATE AS
SELECT
     timestamp,
    sessionId,
    id_item,
    location
FROM users
скрипт проверки работы и вывод необходимых для чекера полей (здесь deep
насчитывается не совсем корректно, как общая сумма хитов по всей сессии,
а не до страницы):
select a.location, a.id_item, sum(a.total), avg(b.total)
from (select location, id_item, sessionId, count(*) as total from
view_users group by location, id_item, sessionId) a
ANY LEFT JOIN (select sessionId, count(*) as total from view_users group
```

by sessionId) b USING sessionId

```
group by a.location, a.id_item
order by a.location
А здесь точное определение средней глубины просмотра по заходу на
страницу:
select z.location, z.id_item, y.total, z.deep from
(select x.location, x.id_item, avg(x.deep) as deep from (
select a.location, a.id_item, a.sessionId, count(*) as deep
from (select location, id_item, sessionId, min(timestamp) as ts1 from
view_users group by location, id_item, sessionId) a
all left join view_users b USING sessionId
where b.timestamp <= a.ts1
group by a.location, a.id_item, a.sessionId) x
group by x.location, x.id_item) z
all left join (select location, count(*) as total from view_users where
timestamp >= 1541074972330 group by location) y USING location
order by z.location
создание таблицы статистики по заказам, которая автоматом забирает
записи из потока Кафки:
CREATE TABLE orders (
    sessionId String,
    timestamp UInt64,
    location String,
    id_item String,
    id_product String,
    price_product Float32,
    total_price_product Float32,
    item_count UInt16
 ) ENGINE = Kafka('35.195.166.173:6667', 'orders_json', 'group_orders',
'JSONEachRow'):
создание view статистики по заказам, которая сохраняет записи в нужном
формате из orders:
CREATE MATERIALIZED VIEW view_orders
ENGINE = MergeTree() ORDER BY (timestamp, id_item) SETTINGS
index_granularity=8192 POPULATE AS
SELECT
     timestamp,
    id_item,
    location,
    total_price_product,
    item_count
FROM orders
скрипт проверки работы и вывод необходимых для чекера полей:
select max(location) as url, id_item, sum(total_price_product) as price,
sum(item_count) as count
from view_orders
```

```
--where timestamp > 1541069788510
group by id_item;
```

Запуск сайта для чекера:

```
cd api
./app.py
```

api.py - сайт на flask

```
#!flask/bin/python
from flask import Flask
from clickhouse_driver import Client
from datetime import datetime, timedelta
import time
cl = Client('35.195.166.173',port='9001')
def getTsHourBack():
    dt = datetime.now() - timedelta(hours=1)
    return int(time.mktime(dt.timetuple())*1000)
def getJson(recs,cols,ts):
    lst = []
    for rec in recs:
        d = \{\}
        for i,col in enumerate(cols):
            d[col] = rec[i]
        lst.append(d)
    return str({"timestamp": ts,"contents": lst,"check": True})
def getOrders(ts=None):
    if ts == None:
        ts = getTsHourBack()
    else:
        try:
            ts = int(ts)
        except:
            ts = 0
    q = ('select z.location, z.id_item, y.total, z.deep from'+
          (select x.location, x.id_item, avg(x.deep) as deep from ('+
        ' select a.location, a.id_item, a.sessionId, count(*) as deep'+
        ' from (select location,id_item,sessionId,min(timestamp) as ts1
from view_users group by location, id_item, sessionId) a'+
        'all left join view_users b USING sessionId'+
        ' where b.timestamp <= a.ts1'+</pre>
        ' group by a location, a.id_item, a.sessionId) x'+
        ' group by x.location, x.id_item) z'+
        'all left join (select location, count(*) as total from
view_users where timestamp >= {} group by location) y'+
        ' USING location'+
        ' order by z.location;').format(ts)
    return getJson(cl.execute(q),['url','id_item','price','count'],ts)
```

```
def getUsers(ts=None):
    if ts == None:
        ts = getTsHourBack()
    else:
        try:
            ts = int(ts)
        except:
            ts = 0
    q = 'select a.location as url, a.id_item, count(*) as count,
avg(b.deep) as deep'+\
         from view users a'+\
        ' ANY LEFT JOIN (select sessionId, count(*) as deep from
view_users group by sessionId) b USING sessionId'+\
         where a.timestamp >= '+str(ts)+\
        ' group by a.location, a.id_item FORMAT JSONEachRow;'
    return getJson(cl.execute(q),['url','id_item','count','deep'],ts)
app = Flask(__name___)
@app.route('/')
def index():
    return "Это API для чекера"
@app.route('/api/v1.0/users/')
def users1():
    return getUsers()
@app.route('/api/v1.0/users/<ts>')
def users2(ts):
    return getUsers(ts)
@app.route('/api/v1.0/orders/')
def orders1():
    return getOrders()
@app.route('/api/v1.0/orders/<ts>')
def orders2(ts):
    return getOrders(ts)
if __name__ == '__main_ ':
    app.run(debug=True,host = "0.0.0.0", port=5001)
```

Результат:



	RBC location T:	RBC id_item	123 total 🌹	123 deep \(\frac{1}{4}\)
	☑ https://b24-dy0v8s.bitrix24.shop/		C	1,2
	☑ https://b24-dy0v8s.bitrix24.shop/dostavka/		C	6
			C	7
	☑ https://b24-dy0v8s.bitrix24.shop/kakkupit/		C	5
			1	1,5
	☑ https://b24-dy0v8s.bitrix24.shop/katalog/clothes/shoes/		C	3
			1	2,8333333333
		dress-nightlife	C	1
		dress-red-fairy	1	2
)	☑ https://b24-dy0v8s.bitrix24.shop/katalog/item/pantolety-bones-on-the-beach/	pantolety-bones-on-the-beach	C	7
I	☑ https://b24-dy0v8s.bitrix24.shop/katalog/item/slippers-favorite-sport/	slippers-favorite-sport	C	2
2	https://b24-dy0v8s.bitrix24.shop/katalog/item/sports-suit-gentle-warmth/	sports-suit-gentle-warmth	C	2
3	☑ https://b24-dy0v8s.bitrix24.shop/katalog/item/sports-suit-pink-vortex/	sports-suit-pink-vortex	C	7
1	☑ https://b24-dy0v8s.bitrix24.shop/katalog/item/t-shirt-men-s-fire/	t-shirt-men-s-fire	C	2
5		women-s-t-shirt-night	C	4,5
3	☑ https://b24-dy0v8s.bitrix24.shop/katalog/item/women-s-t-shirt-purity/	women-s-t-shirt-purity	1	4,6666666667
7			C	9
3			C	8
)	https://b24-dv0v8s.bitrix24.shop/personalnvvrazdel/korzina/		2	2.75

Кол-во хитов считается от времени, а средняя глубина - от начала сессий



{'timestamp': 1541155248, 'contents': [{'url': 'https://b24-dy0v8s.bitrix24.shop/', 'id_item': ", 'price': 14457.0, 'count': 6}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/women-s-t-shirt-purity/', 'id_item': 'women-s-t-shirt-purity', 'price': 19380.0, 'count': 6}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/pantolety-bones-on-the-beach/', 'id_item': 'pantolety-bones-on-the-beach', 'price': 13485.0, 'count': 15}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/t-shirt-men-s-fire/', 'id_item': 't-shirt-men-s-fire', 'price': 3920.0, 'count': 4}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/women-s-t-shirt-night/', 'id_item': 'women-s-t-shirt-night/, 'price': 6000.0, 'count': 8}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/sports-suit-pink-vortex/', 'id_item': 'sports-suit-pink-vortex', 'price': 11760.0, 'count': 3}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/dress-nightlife/', 'id_item': 'dress-nightlife', 'price': 4499.0, 'count': 1}, {'url': 'https://b24-dy0v8s.bitrix24.shop/katalog/item/sports-suit-gentle-warmth/', 'id_item': 'sports-suit-gentle-warmth/', 'price': 28700.0, 'count': 7}], 'check': True}