

v1.19_Bob

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Eltex-Bob - RESTful API , JSON . , 9190, GET-.

, eltex-bob MySQL. DDoS, , . , - , .env -. eltex-bob 10 .

, eltex-bob eltex-ems. eltex-ems , . « (ICMP/SNMP)» « - - system». . eltex-ems 1 .

API:

- [http://<<ip_address>>:<<port>>/GetAPList](#) JSON
- [http://<<ip_address>>:<<port>>/GetAPDetail/{MAC_ADDRESS}](#) -
- [http://<<ip_address>>:<<port>>/GetAPAvailable/{MAC_ADDRESS}](#) -
- [http://<<ip_address>>:<<port>>/GetAPPPerformance/{MAC_ADDRESS}](#) -

GetAPList

JSON, :

- **apID** - MAC- ;
- **apName** - ;
- **grCity** - ;
- **grRegion** - /;
- **grTB** - ;
- **vspAddress** - ;
- **vspNumber** - ;
- **apGroup** - ;
- **apRtcGroup** - , (- domain_search.regex, .);

:

```
{
  "data": [
    {
      "apGroup": " / /. 8621-0304",
      "apID": "a8-f9-4b-b5-a4-a0",
      "grTB": " ",
      "grCity": ".",
      "vspNumber": "8621-00304",
      "apRtcGroup": "Ug/Volgogradskiy_filial/Volgogradskaya_obl/Volgograd/Sberbank/8621-0304_pr-kt_Metallurgov_15",
      "vspAddress": "400007, ., ., 15",
      "apName": "sberbank_ug_vgg_volgograd_8621-0304_a8:f9:4b:b5:a4:a0",
      "grRegion": " "
    },
  ]
}
```

- :

```
curl -L http://localhost:9190/GetAPList
```

- **grTB** - grTB. eltex-bob , grTB . , .
:

```
curl -L http://localhost:9190/GetAPList?grTB=' '
```

GetAPDetail

, :

```
"ip" - IP-;
"office" - ;
"city" - ;
"firmware-version" - ;
"serial-number" - ;
"vsp" - ;
"full-address" - .
```

:

```
curl -L http://localhost:9190/GetAPDetail/00:00:00:00:00:00
```

:

```
{
  "ip": "192.168.6.18",
  "office": ". 178-758",
  "city": ".",
  "firmware-version": "1.16.0.163",
  "serial-number": "WP01000177",
  "vsp": "4157-081"
  "full-address": "678100, ., ., 20741"
}
```

GetAPAvailable

, :
"available" - , 0 - , 1 - ;
"uptime" - , .

:

```
curl -L http://localhost:9190/GetAPAvailable/00:00:00:00:00:00
```

:

```
{  
  "available": 0,  
  "uptime": 67370  
}
```

GetAPPerformance

, :
"wifi_users" - .

:

```
curl -L http://localhost:9190/GetAPPerformance/00:00:00:00:00:00
```

:

```
{  
  "wifi_users": "5"  
}
```

2:

- http-basic, ;
- ACL- nginx, nginx.

nginx ACL

IP-, nginx ACL. Access Control List nginx, :

```
location /api {  
    allow 192.168.1.3/24;  
    allow 127.0.0.1;  
    deny all;  
}
```

deny - IP-address, ;
allow - IP-address, .

, IP- 192.168.1.3 127.0.0.1 , .

E nginx eltex-bob, :

```
server {
    listen 80;
    server_name bob;
    location /api/ {
        proxy_pass http://localhost:9190/;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_redirect default;
    }
}
```

/etc/eltex-bob/application.properties

:

application.properties

```
# The Datasource Mysql properties
spring.application.name=bob

spring.datasource.url=jdbc:mysql://10.62.18.35:3306/eltex_ems?
useSSL=false&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
spring.datasource.username=javauser
spring.datasource.password=javapassword
spring.datasource.hikari.maximum-pool-size=10

# Common properties
#domain_search.mask=[a-zA-Z0-9.-_]*.ap.root
domain_search.mask=[a-zA-Z0-9.-_]*.ap.root

domain_search.regex=root/Ap/(.*)$
domain_search.replacement=$1

vsp_search.regex=/(\d{2,}[_]\d{2,})[^/]*$

mac.splitter=:

auth.enabled=false
auth.username=user
auth.password=password

excel.config.file=/etc/eltex-bob/excel_config.yaml

server.port=9190
server.cron=0 */10 * ? * *
```

- :

```
spring.datasource.url=jdbc:mysql://localhost:3306/eltex_ems?
useSSL=false&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
spring.datasource.username=javauser
spring.datasource.password=javapassword
```

- . , 10 , .

```
spring.datasource.hikari.maximum-pool-size=10
```

- , . .

```
domain_search.mask=[a-zA-Z0-9]*\.ap\.root
```

- /, :

```
domain_search.regex=root/Ap/(.*)$
domain_search.replacement=$1

vsp_search.regex=/(\d{2,}[_]\d{2,})[^\]*$
```

- - (":):

```
mac.splitter=:
```

- -, false -:

```
auth.enabled=true
```

- /, bob:

```
auth.username=user
auth.password=password
```

- :

```
excel.config.file=/etc/eltex-bob/excel_config.yaml
```

- , :

```
server.port=9190
```

- , :

```
server.cron=0 */10 * ? * *
```

spring. UNIX , 6, .

, Ap.root. root, :

```
# Common properties
domain_search.mask=.*root

domain_search.regex=^(.*)$
domain_search.replacement=$1
```

/etc/eltex-bob/excel_config.yaml

:

excel_config.yaml

```
vspSheetName:
vspExcelFile: /etc/eltex-bob/vsp.xlsx
type: TITLE
columns:
  vsp:
  bank:
  region:
  office:
  address:
  city:

##
#vspSheetName:
#type: NUMBER
#columns:
#  vsp: 3
#  bank: 1
#  region: 10
#  office: 2
#  address: 7
```

• :

```
vspSheetName:
vspExcelFile: /home/vagrant/list2.xlsx
```

• .TITLE - ,NUMBER - .

```
type: TITLE
```

• :

```
columns:
  vsp: - , .../Sberbank/4157-081_Kuznechnaya_11a..., "4157-081"
  bank: \
  region: - APGROUP
  office: /
  address: - FULLADDRESS GetAPList
```

/etc/default/eltex-bob

eltex-bob

```
# AP Monitoring service

# Initial size of Java heap
JAVA_INIT_HEAP=128m
# Maximum size of Java heap
JAVA_MAX_HEAP=256m

# Additional arguments to pass to java
JAVA_OPTS="-XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=/var/log/eltex-bob"
```

--	--

JAVA_INIT_HEAP	, . JAVA_MAX_HEAP.
JAVA_MAX_HEAP	,
JAVA_OPTS	jvm

/etc/eltex-bob/log4j2.xml

log4j2.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Configuration>
  <Properties>
    <Property name="maxSize" value="5MB"/>
    <Property name="maxCount" value="7"/>
    <Property name="logDir" value="/var/log/eltex-bob"/>
    <Property name="defaultPattern" value="%d{ISO8601} [%t] %-5p %logger{1} %C{1}.%M(line:%L). %m%n"/>
    <Property name="gelfHost" value="udp:lab3-test.eltex.loc"/>
    <Property name="gelfPort" value="12201"/>
    <Property name="gelfLevel" value="OFF"/>
    <Property name="filenamePrefix" value="eltex-bob"/>
  </Properties>

  <Appenders>
    <Console name="STDOUT" target="SYSTEM_OUT">
      <PatternLayout>
        <Pattern>${defaultPattern}</Pattern>
      </PatternLayout>
    </Console>

    <RollingFile name="SPRING-INFO"
      fileName="${logDir}/${filenamePrefix}-spring.log"
      filePattern="${logDir}/%d{yyyyMMdd}.%i.log">
      <ThresholdFilter level="INFO" onMatch="ACCEPT" onMismatch="DENY"/>
      <PatternLayout>
        <pattern>${defaultPattern}</pattern>
      </PatternLayout>
      <Policies>
        <SizeBasedTriggeringPolicy size="${maxSize}"/>
      </Policies>
      <DefaultRolloverStrategy max="${maxCount}"/>
    </RollingFile>

    <RollingFile name="SERVICE-ERROR"
      fileName="${logDir}/${filenamePrefix}-error.log"
      filePattern="${logDir}/%d{yyyyMMdd}.%i.log">
      <ThresholdFilter level="ERROR" onMatch="ACCEPT" onMismatch="DENY"/>
      <PatternLayout>
        <pattern>${defaultPattern}</pattern>
      </PatternLayout>
      <Policies>
        <SizeBasedTriggeringPolicy size="${maxSize}"/>
      </Policies>
      <DefaultRolloverStrategy max="${maxCount}"/>
    </RollingFile>

    <RollingFile name="SERVICE-INFO"
      fileName="${logDir}/${filenamePrefix}-info.log"
      filePattern="${logDir}/%d{yyyyMMdd}.%i.log">
      <ThresholdFilter level="INFO" onMatch="ACCEPT" onMismatch="DENY"/>
      <PatternLayout>
        <pattern>${defaultPattern}</pattern>
      </PatternLayout>
```

```

        <Policies>
            <SizeBasedTriggeringPolicy size="${maxSize}" />
        </Policies>
        <DefaultRolloverStrategy max="${maxCount}" />
    </RollingFile>

    <Gelf name="Gelf"
        host="${gelfHost}"
        port="${gelfPort}"
        version="1.1"
        facility="${filenamePrefix}"
        extractStackTrace="true"
        originHost="%host{fqdn}"
        maximumMessageSize="8192" >
        <Field name="thread" pattern="%t" />
        <Field name="level" pattern="%level" />
        <Field name="severity" pattern="%-5level" />
        <Field name="logger" pattern="%logger{1}" />
        <Field name="location" pattern="%C{1}.%M(line:%L)" />
    </Gelf>
</Appenders>

<Loggers>
    <Logger name="org.springframework" level="info" additivity="false">
        <AppenderRef ref="SPRING-INFO" />
    </Logger>

    <Logger name="org.eltex.softwlc.bob" level="error" additivity="false">
        <AppenderRef ref="SERVICE-ERROR" />
    </Logger>

    <Logger name="org.eltex.softwlc.bob" level="info" additivity="false">
        <AppenderRef ref="SERVICE-INFO" />
    </Logger>

    <Root level="error">
        <AppenderRef ref="Gelf" level="${gelfLevel}" />
    </Root>
</Loggers>
</Configuration>

```

- (.):

```
<Property name="maxSize" value="5MB" />
```

- , :

```
<Property name="maxCount" value="7" />
```

- :

```
<Property name="logDir" value="/var/log/eltex-bob" />
```

- Graylog (, ,):

```

<Property name="gelfLevel">${env:GELF_LEVEL:-OFF}</Property>
<Property name="gelfHost">${env:GELF_HOST:-udp:lab3-test.eltex.loc}</Property>
<Property name="gelfPort">${env:GELF_PORT:-12201}</Property>

```

-


```
<Root level="error">
```

docker-. .env docker-compose.yml.

docker-compose.yml

```
version: "3"

services:
  bob:
    image: hub.eltex-co.ru/softwlc/eltex-bob:1.19-<tag>
    network_mode: host
    ports:
      - 9190:${BOB_PORT}
    volumes:
      - "/etc/eltex-bob/excel_config.yaml:/etc/eltex-bob/excel_config.yaml"
      - "/etc/eltex-bob/log4j2.xml:/etc/eltex-bob/log4j2-docker.xml"
      - "/etc/eltex-bob/application.properties:/etc/eltex-bob/application.properties"
      - "/var/log/eltex-bob:/var/log/eltex-bob"
    environment:
      - server.port=${BOB_PORT}
      - server.cron=${BOB_CRON}
      - spring.datasource.url=${BOB_DB_URL}
      - spring.datasource.username=${BOB_DB_USERNAME}
      - spring.datasource.password=${BOB_DB_PASSWORD}
      - domain_search.mask=${BOB_DOMAIN_SEARCH_MASK}
      - domain_search.regex=${BOB_DOMAIN_SEARCH_REGEX}
      - vsp_search.regex=${BOB_VSP_SEARCH_REGEX}
```



<tag> , .

.env

```
# common bob params
BOB_DB_URL=jdbc:mysql://<IP-address>:3306/eltex_ems?
useSSL=false&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
BOB_DB_USERNAME=javauser
BOB_DB_PASSWORD=javapassword
BOB_DB_HIKARI_MAXIMUM_POOL_SIZE=20
BOB_DOMAIN_SEARCH_MASK=[a-zA-Z0-9\\._-]*\\.Ap\\.\\.root
BOB_DOMAIN_SEARCH_REGEX=^root/Ap/(.*)$
BOB_VSP_SEARCH_REGEX=/(\d{2,}[_]\d{2,})[^/]*$
BOB_PORT=9190
BOB_CRON=0 */10 * ? *
```

.env docker-compose.yml . :

```
docker-compose up
```

(environment)

- **BOB_PORT** - , ;
- **BOB_CRON** - , . spring.
UNIX , 6, .

(MySQL)

- **BOB_DB_URL** - URL MySQL;
 - **BOB_DB_USERNAME** - ;
 - **BOB_DB_PASSWORD** - ;
-
- **BOB_DOMAIN_SEARCH_MASK** - (), ;
 - **BOB_DOMAIN_SEARCH_REGEX** - , json, , root.Ap.Sibir, Ap.Sibir Sibir;
 - **BOB_VSP_SEARCH_REGEX** - , , root.Ap.Sibir.Novosibirsk.Lenina.0000_0000-kakoetovsp.