



v1.18_Johnny

-
-
- - /
- - /etc/eltex-johnny/application.conf
 - /etc/eltex-johnny/log4j2.xml
 - /etc/default/eltex-johnny
- API
 -
 - B2C
 - (B2C)
 - API Open API (B2C)
 - B2B
 - (B2B)
 - API Open API (B2B)
-
- -
 - eltex-pcrf
 - eltex-mercury
 - eltex-nbi
 - eltex-portal
 - eltex-doors
 - HTTP
 - JWT

Eltex-johnny - , API Wi-Fi. , SoftWLC. Wi-Fi , SoftWLC.

```
apt-get install eltex-johnny
```

/

	service eltex-johnny status	<div><div> Active: active (running)</div><div>C</div><div> Active: failed</div></div>
	service eltex-johnny start	<div><div> Active: active (running)</div></div>

	service eltex-johnny stop	<div> Active: failed</div>
	service eltex-johnny restart	<div> Active: active (running)</div>

/etc/eltex-johnny/application.conf

application.conf

```
pcrf {
  // connection host
  host = localhost
  // connection port (7070 is default)
  port = 7070
  // timeout (you can use ns, us, ms, s, m and h letters)
  // consult with HOCON duration format for more information
  timeout = 10s

  // pool configuration
  pool {
    // minimum idle objects in pool
    min = 1
    // maximum pool size
    max = 20
    // timeout to retrieve an object from pool
    waitTimeout = 5s
  }
}

mercury {
  // connection host
  host = localhost
  // connection port (6565 is default)
  port = 6565

  // pool configuration
  pool {
    // minimum idle objects in pool
    min = 1
    // maximum pool size
    max = 20
    // timeout to retrieve an object from pool
    waitTimeout = 5s
  }
}

nbi {
  // connection host
  host = localhost
  // connection port (8080 is default)
  port = 8080
}
```

```

// timeout (you can use ns, us, ms, s, m and h letters)
// consult with HOCON duration format for more information
timeout = 80s
// NBI login
login = admin
// NBI password
password = password

// pool configuration
pool {
  // minimum idle objects in pool
  min = 1
  // maximum pool size
  max = 20
  // timeout to retrieve an object from pool
  waitTimeout = 5s
}

portal {
  scheme = http
  host = localhost
  port = 9000
}

doors {
  host = localhost
  port = 9097
  path = /api
  username = user
  password = password
}

http {
  connectionTimeout = 20s
  connectionTotal = 100
}

// JWT validation. You need a key from Eltex Doors.
// Or you could generate it yourself.
validation {
  public_key = /etc/eltex-doors/keys/public.pem
}

```

- **pcrf** - eltex-pcrf, , .
- **mercury** - eltex-mercury, , .
- **nbi** - , nbi, , .
- **portal** - , eltex-portal.
- **doors** - ,, API eltex-doors.
- **http** - API.
- **validation** - eltex-doors, .

/etc/eltex-johnny/log4j2.xml

log4j2.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<Configuration monitorInterval="10">
  <Properties>
    <Property name="rootLevel">${env:LOG_LEVEL:-ERROR}</Property>

    <Property name="baseDir">/var/log/eltex-johnny</Property>
    <Property name="maxFileSize">20 MB</Property>
    <Property name="accumulatedFileSize">100 MB</Property>
    <Property name="lastModified">7d</Property>
    <Property name="maxCount">20</Property>
    <Property name="logPattern">%d{ISO8601} [%t] %-5p %logger{12} %C{1}.%M(line:%L). %m%n</Property>

    <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>
  </Properties>
  <Appenders>

    <RollingFile name="RollingFile"
      fileName="${baseDir}/johnny.log"
      filePattern="${baseDir}/log/johnny-%i.log.gz">
      <PatternLayout pattern="${logPattern}" />
      <Policies>
        <SizeBasedTriggeringPolicy size="${maxFileSize}" />
      </Policies>
      <DefaultRolloverStrategy max="${maxCount}">
        <Delete basePath="${baseDir}" maxDepth="3">
          <IfFileName glob="*/johnny-*.log.gz">
            <IfLastModified age="${lastModified}" />
            <IfAny>
              <IfAccumulatedFileSize exceeds="${accumulatedFileSize}" />
              <IfAccumulatedFileCount exceeds="${maxCount}" />
            </IfAny>
          </IfFileName>
        </Delete>
      </DefaultRolloverStrategy>
    </RollingFile>

    <Gelf name="Gelf" host="${gelfHost}" port="${gelfPort}" version="1.1" facility="eltex-johnny"
      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{12}" />
      <Field name="location" pattern="%C{1}.%M(line:%L)" />
    </Gelf>
  </Appenders>

  <Loggers>
    <Root level="${rootLevel}">
      <AppenderRef ref="RollingFile" />
      <AppenderRef ref="Gelf" level="${gelfLevel}" />
    </Root>

    <Logger name="org.springframework" level="ERROR" />

    <Logger name="org.apache" level="OFF" />

  </Loggers>
</Configuration>
```

```
<Configuration monitorInterval="10">
```

- :

```
<Property name="rootLevel">${env:LOG_LEVEL:-ERROR}</Property>
```

- :

```
<Property name="baseDir">/var/log/eltex-johnny</Property>
```

- (.):

```
<Property name="maxFileSize">20 MB</Property>
```

- (+). :

```
<Property name="accumulatedFileSize">10 GB</Property>
```

- , :

```
<Property name="lastModified">4d</Property>
```

- , :

```
<Property name="maxCount">20</Property>
```

- 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>
```

/etc/default/eltex-johnny

.

eltex-johnny

```
PORT=9100

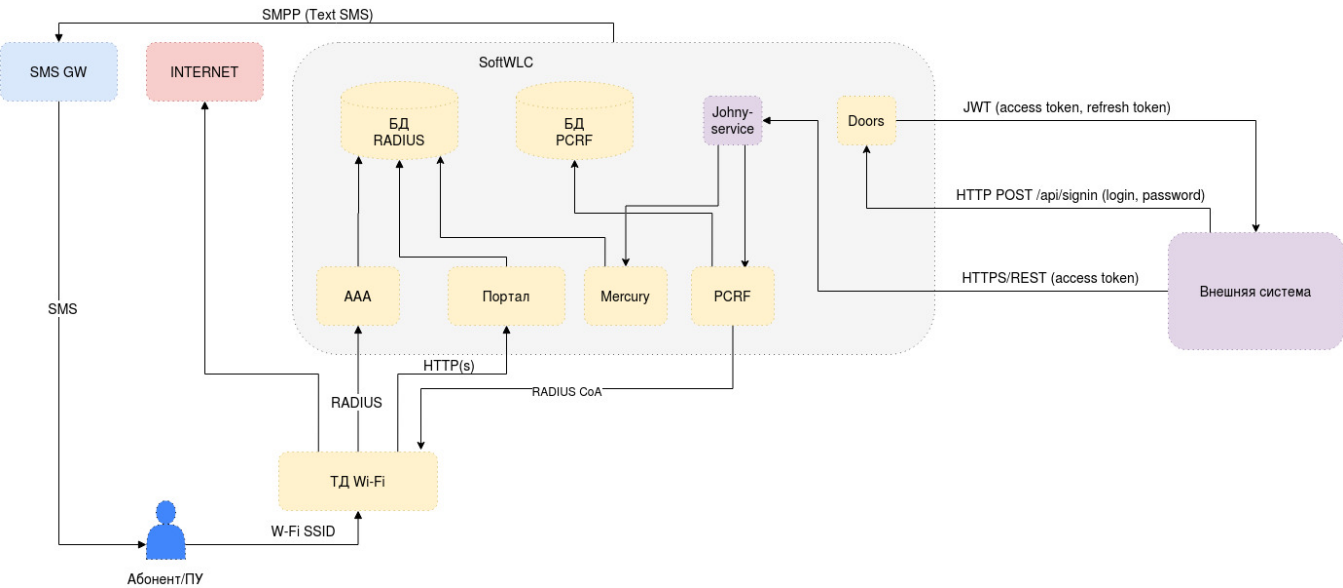
# Initial size of Java heap
JAVA_INIT_HEAP=64m
# Maximum size of Java heap
JAVA_MAX_HEAP=256m

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

PORT	,

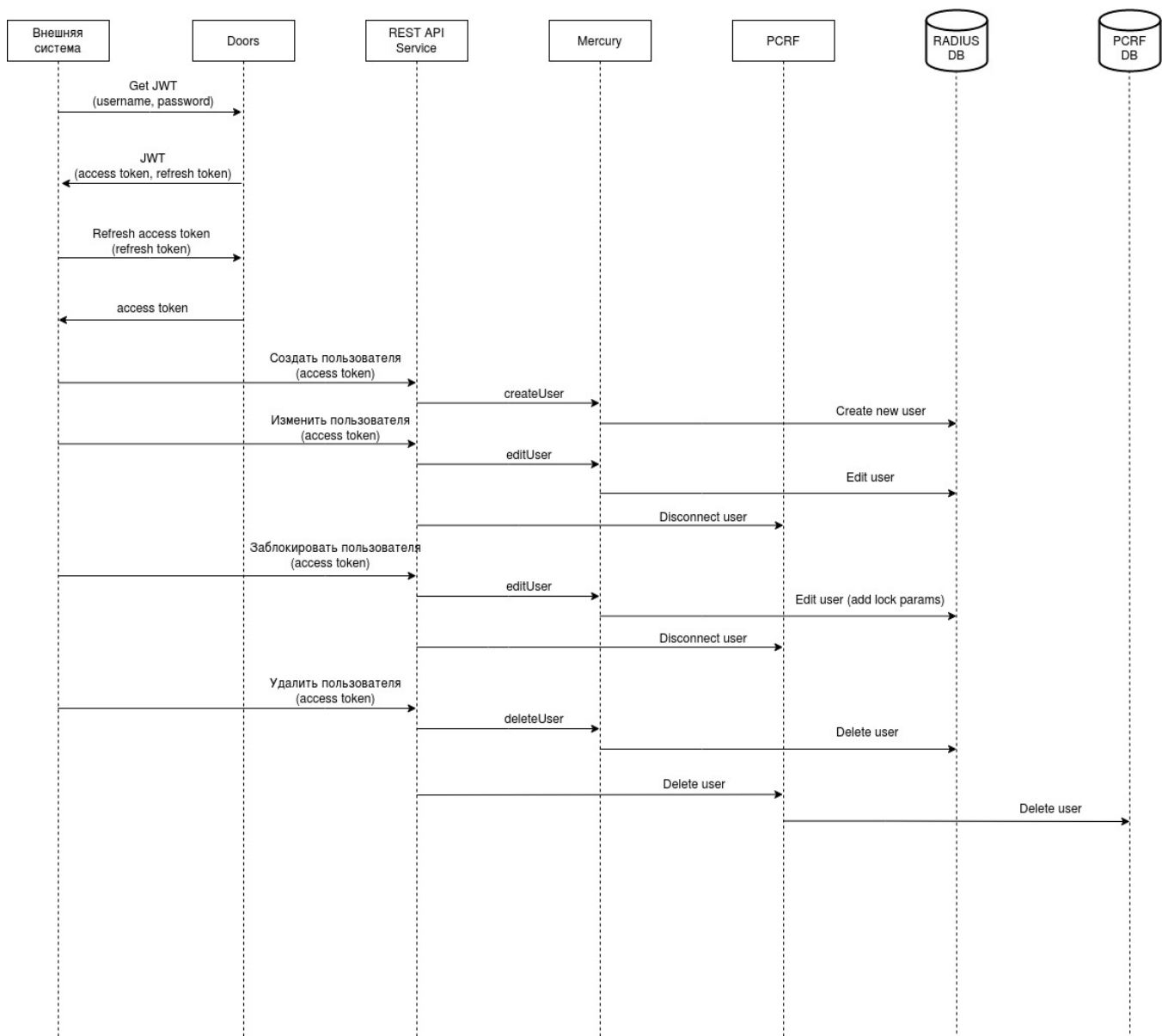
JAVA_INIT_HEAP	, . JAVA_MAX_HEAP.
JAVA_MAX_HEAP	,
JAVA_OPTS	jvm

API



B2C

(B2C)



API Open API (B2C)

API

```

openapi: "3.0.1"
info:
  title: OSS Interaction Service API
  version: "1.0"

components:
  securitySchemes:
    JwtAuth:
      type: http
      scheme: bearer
      bearerFormat: JWT

schemas:
  username:
    type: integer
    description: ' ( ). 7 15 '
    example: '79123456789'
  
```

```

maxLength: 15
minLength: 7

domain:
  type: string
  description: ' ( ), . 1 63 / , : _ - . 235 .'
  example: "root.hello.world"
  maxLength: 235
  minLength: 1
  pattern: '^(?=^.{1,235}$)((?!-|_|.*(__|--).*)[a-zA-Z0-9-]{1,63}.)*((?!-|_|.*(__|--).*)[a-zA-Z0-9-]{1,63})$)'

User:
  type: object
  properties:
    username:
      $ref: '#/components/schemas/username'

    domain:
      $ref: '#/components/schemas/domain'

User_attrs:
  type: object
  properties:
    tariff_code:
      type: string
      description: ' . / 64- .'
      maxLength: 64
      minLength: 1
      pattern: '[a-zA-Z0-9]\\{1,64\\}'
    locked:
      type: boolean
      description: ' . true - , false - .'

User_full:
  type: object
  allOf:
    - $ref: '#/components/schemas/User'
    - $ref: '#/components/schemas/User_attrs'
    - type: object

Error:
  type: object
  properties:
    description:
      type: string
      description: .

requestBodies:
  # user without attrs (only username and domain)
  User:
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/User'
    description: .

  # full user information, including username, domain, lock and tariff code
  User_full:
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/User_full'
    description: .
    required: true

  # user attributes only (tariff code and lock value)
  User_attrs:
    content:
      application/json:
        schema:

```



```
        $ref: '#/components/schemas/User_attrs'
    description: .
    required: true

responses:
  200:
    description: .
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/User_full'

  200_full:
    description: .
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/User_full'

  400:
    description: .
    content:
      'application/json':
        schema:
          $ref: '#/components/schemas/Error'

  403:
    description:
    content:
      'application/json':
        schema:
          $ref: '#/components/schemas/Error'

  404:
    description: / URL .

  500:
    description: .
    content:
      'application/json':
        schema:
          $ref: '#/components/schemas/Error'

security:
  - JwtAuth: []

tags:
  - name: users
    description: API .

paths:
  /api/users/new:
    post:
      tags:
        - users
      summary:
      requestBody:
        $ref: '#/components/requestBodies/User_full'

      responses:
        200:
          $ref: "#/components/responses/200_full"
        400:
          $ref: "#/components/responses/400"
        403:
          $ref: "#/components/responses/403"
        404:
          $ref: "#/components/responses/404"
```

```

/api/users/{username}@{domain}:
  parameters:
    - name: username
      in: path
      required: true
      schema:
        $ref: '#/components/schemas/username'

    - name: domain
      in: path
      required: true
      schema:
        $ref: '#/components/schemas/domain'

  put:
    tags:
      - users
    summary: .
    requestBody:
      $ref: '#/components/requestBodies/User_attr'

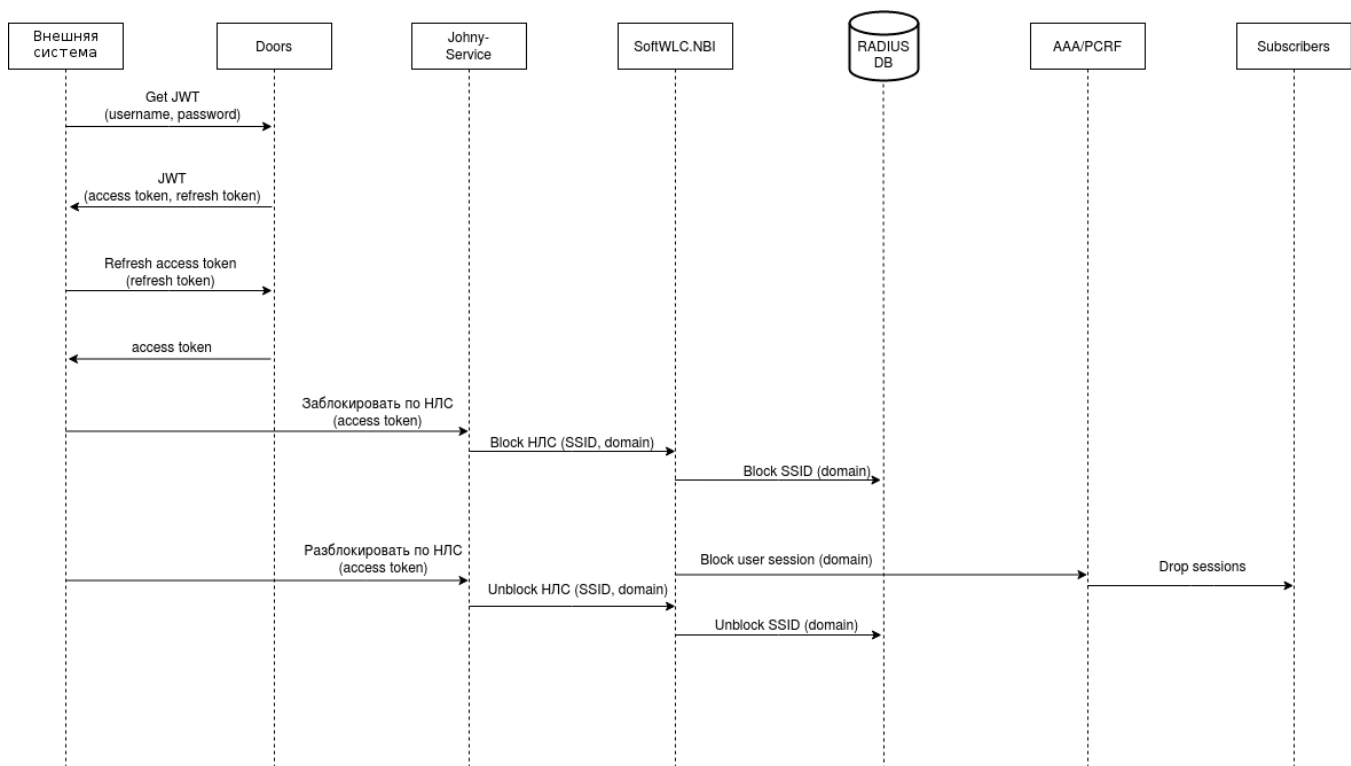
    responses:
      200:
        $ref: '#/components/responses/200_full'
      400:
        $ref: '#/components/responses/400'
      403:
        $ref: '#/components/responses/403'
      404:
        $ref: '#/components/responses/404'

  delete:
    tags:
      - users
    summary: . URL username .
    responses:
      200:
        $ref: '#/components/responses/200'
      400:
        $ref: '#/components/responses/400'
      403:
        $ref: '#/components/responses/403'
      404:
        $ref: '#/components/responses/404'

```

B2B

(B2B)



API Open API (B2B)

API

```

openapi: "3.0.1"
info:
  title: OSS Interaction Service API
  version: "1.0"

components:
  securitySchemes:
    JwtAuth:
      type: http
      scheme: bearer
      bearerFormat: JWT

  schemas:
    account_id:
      type: integer
      description: ().
      maxLength: 12
      minLength: 12

    locked:
      type: boolean
      description: ().

    account_properties:
      type: object
      properties:
        locked:
          $ref: '#/components/schemas/locked'

  Response:
    type: object
    properties:

```

```
    locked:
      $ref: '#/components/schemas/locked'

    account_id:
      $ref: '#/components/schemas/account_id'

  Error:
    type: object
    properties:
      description:
        type: string
        description: .

  requestBodies:
    # user without attrs (only username and domain)
    account_properties:
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/account_properties'
      description: .

  responses:

    200:
      description: .
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Response'

    400:
      description: .
      content:
        'application/json':
          schema:
            $ref: '#/components/schemas/Error'

    403:
      description: .
      content:
        'application/json':
          schema:
            $ref: '#/components/schemas/Error'

    404:
      description: .

    500:
      description: .
      content:
        'application/json':
          schema:
            $ref: '#/components/schemas/Error'

  security:
    - JwtAuth: []

  tags:
    - name: clients
      description: API .

  paths:
    /api/clients/{account_id}:
      put:
        tags:
          - clients
        summary: .
```

```

parameters:
  - in: path
    name: account_id
    required: true
    schema:
      $ref: '#/components/schemas/account_id'

requestBody:
  $ref: '#/components/requestBodies/account_properties'

responses:
  200:
    $ref: "#/components/responses/200"
  400:
    $ref: "#/components/responses/400"
  403:
    $ref: "#/components/responses/403"
  404:
    $ref: "#/components/responses/404"

```

docker-. .env docker-compose.yml

docker-compose.yml

```

version: "3"
services:
  eltex-johnny:
    container_name: eltex-johnny
    image: hub.eltex-co.ru/softwlc/eltex-johnny:1.18-95
    ports:
      - 9100:${JOHNNY_PORT}
    environment:
      - server.port=${JOHNNY_PORT}
      - pcrf.host=${JOHNNY_PCRF_HOST}
      - pcrf.port=${JOHNNY_PCRF_PORT}
      - pcrf.timeout=${JOHNNY_PCRF_TIMEOUT}
      - mercury.host=${JOHNNY_MERCURY_HOST}
      - mercury.port=${JOHNNY_MERCURY_PORT}
      - nbi.host=${JOHNNY_NBI_HOST}
      - nbi.port=${JOHNNY_NBI_PORT}
      - nbi.timeout=${JOHNNY_NBI_TIMEOUT}
      - nbi.login=${JOHNNY_NBI_LOGIN}
      - nbi.password=${JOHNNY_NBI_PASSWORD}
      - portal.scheme=${JOHNNY_PORTAL_SCHEME}
      - portal.host=${JOHNNY_PORTAL_HOST}
      - portal.port=${JOHNNY_PORTAL_PORT}
      - doors.host=${JOHNNY_DOORS_HOST}
      - doors.port=${JOHNNY_DOORS_PORT}
      - doors.path=${JOHNNY_DOORS_PATH}
      - doors.username=${JOHNNY_DOORS_USERNAME}
      - doors.password=${JOHNNY_DOORS_PASSWORD}
      - http.connectionTimeout=${JOHNNY_HTTP_CONNECTION_TIMEOUT}
      - http.connectionTotal=${JOHNNY_HTTP_CONNECTION_TOTAL}
      - validation.public_key=${JOHNNY_PUBLIC_KEY}
      - LOG_LEVEL=DEBUG
    volumes:
      - /etc/eltex-doors/keys/public.pem:${JOHNNY_PUBLIC_KEY}:ro

```

, , Graylog.

.env

```
JOHNNY_PORT=9100

JOHNNY_PCRF_HOST=<IP-address>
JOHNNY_PCRF_PORT=7070
JOHNNY_PCRF_TIMEOUT=10s

JOHNNY_MERCURY_HOST=<IP-address>
JOHNNY_MERCURY_PORT=6565

JOHNNY_NBI_HOST=<IP-address>
JOHNNY_NBI_PORT=8080
JOHNNY_NBI_TIMEOUT=80s
JOHNNY_NBI_LOGIN=admin
JOHNNY_NBI_PASSWORD=password

JOHNNY_PORTAL_SCHEME=http
JOHNNY_PORTAL_HOST=<IP-address>
JOHNNY_PORTAL_PORT=9000

JOHNNY_DOORS_HOST=<IP-address>
JOHNNY_DOORS_PORT=9097
JOHNNY_DOORS_PATH=/api
JOHNNY_DOORS_USERNAME=user
JOHNNY_DOORS_PASSWORD=password

JOHNNY_HTTP_CONNECTION_TIMEOUT=20s
JOHNNY_HTTP_CONNECTION_TOTAL=100

JOHNNY_PUBLIC_KEY=/etc/eltex-doors/keys/public.pem

LOG_LEVEL=DEBUG
```

.env **docker-compose.yml** **.** :

```
docker-compose up
```

- **JOHNNY_PORT** - , ;
- **JAVA_INIT_HEAP** - *JVM*-Xms ;
- **JAVA_MAX_HEAP** - *JVM*-Xmx ;
- **JAVA_OPTS** - *JVM*().

eltex-pcrf

- **JOHNNY_PCRF_HOST** - eltex-pcrf;
- **JOHNNY_PCRF_PORT** - eltex-pcrf;
- **JOHNNY_PCRF_TIMEOUT** - pcrf ;
- **pcrf.pool.min** - idle pcrf ;
- **pcrf.pool.max** - pcrf ;
- **pcrf.pool.waitTimeout** - pcrf .

eltex-mercury

- **JOHNNY_MERCURY_HOST** - eltex-mercury;
- **JOHNNY_MERCURY_PORT** - eltex-mercury;
- **mercury.pool.min** - idle mercury ;
- **mercury.pool.max** - mercury ;
- **mercury.pool.waitTimeout** - mercury .

eltex-nbi

- **JOHNNY_NBI_HOST** - eltex-nbi;

- **JOHNNY_NBI_PORT** – eltex-nbi;
- **JOHNNY_NBI_TIMEOUT** – nbi ;
- **JOHNNY_NBI_LOGIN** – eltex-nbi;
- **JOHNNY_NBI_PASSWORD** – eltex-nbi;
- **nbi.pool.min** – idle nbi ;
- **nbi.pool.max** – nbi ;
- **nbi.pool.waitTimeout** – nbi .

eltex-portal

- **JOHNNY_PORTAL_SCHEME** – eltex-portal;
- **JOHNNY_PORTAL_HOST** – eltex-portal;
- **JOHNNY_PORTAL_PORT** – eltex-portal.

eltex-doors

- **JOHNNY_DOORS_HOST** – eltex-doors;
- **JOHNNY_DOORS_PORT** – eltex-doors;
- **JOHNNY_DOORS_PATH** – API eltex-doors ;
- **JOHNNY_DOORS_USERNAME** – eltex-doors;
- **JOHNNY_DOORS_PASSWORD** – eltex-doors.

HTTP

- **JOHNNY_HTTP_CONNECTION_TIMEOUT** – *http* ;
- **JOHNNY_HTTP_CONNECTION_TOTAL** – *http* ;

JWT

- **JOHNNY_PUBLIC_KEY** – *JWT (public.pem, eltex-doors, /etc/eltex-doors/keys/public.pem).*