i4ins Free TON Notifications Service tg: @antonsolodkof

Source Code: https://github.com/Strafi/free-ton-notifications-service

Deployed Version: https://ftns.freeton-stats.org/

Demo Server Source Code:

https://github.com/Strafi/free-ton-notifications-service-demo

Deployed Demo Server: https://ftns.freeton-stats.org/test

Wallet:

 $0\!:\!e9fd9b03ae67de6c071510bce975bc5a0b6c5451546e6b941723df$

5787f95877

i4ins Free TON Notifications Service

Notifications Service for Free TON Blockchain. Service PROD version is already deployed here: https://ftns.freeton-stats.org/ and available via Notifications DeBot (Service ID - i4ins)

Features

- Unique identifier and notification parameters data is stored in MongoDB
- Guaranteed delivery of notifications notifications will be delivered even after service shutdown, repeated delivery for 24h in case if webhook consumer unavailable
- Support for HTTPS protocol
- Verification of a domain ownership via adding a validation file in a .well-known folder
- Logging of events of http notifications for the possibility of displaying them in charts - https://ftns.freeton-stats.org/log/info
- All HTTP API methods must return a 200 response if the requested operation is successful and corresponding HTTP error code otherwise
- Module information available here https://ftns.freeton-stats.org/info/get
- Well documented with openapi
- http server with UI is provided for testing purposes

I. API Documentation

Api documention and schemas are provided here (openapi): https://ftns.freeton-stats.org/docs/api

II. Testing

Solution has a Demo server for testing purposes

Please, follow the guide in the repository: https://github.com/Strafi/free-ton-notifications-service-demo

III. Installation

1. Clone this repo

\$ git clone git@github.com:Strafi/free-ton-notifications-service.git i4ins \$ cd i4ins

2. Install dependencies

\$ npm install

or

\$ yarn

IV. Environment

To edit environment variables, create a file with name ${\tt .env}$ and copy values below.

Note: if you are going to use docker-compose, you should also update environment in $.\,{\tt yml}$ files.

Var Name	Type	Default	Descriptio n
NODE_ENV	string	development	API runtime environme nt. eg:
PORT	numb er	3000	Port to run the API server on
MONGO_URL	string	mongodb://mongo:27017/ftns	URL for MongoDB
KAFKA_USER NAME	string	undefined	Your username
KAFKA_PASS WORD	string	undefined	Your password

KAFKA_TOPIC	string	undefined	Your topic
KAFKA_GROU P_ID	string	undefined	Your group id
KAFKA_BROK ER	string	notification.services.tonlabs.io:29092	URL for tonlabs kafka broker

V. Run production docker image

1. Add your KAFKA_USERNAME and KAFKA_PASSWORD environment variables

2.1 Using docker-compose

```
$ docker-compose -f docker-compose.prod.yml up
```

2.2 Using docker

VI. Build and run from source

The mongo container is only only available in dev environment. When you build and deploy the docker image, be sure to provide the correct environment variables.

1. Build and run without Docker

```
$ npm run build && npm run start
```

```
$ yarn build && yarn start
```

2. Run with docker

3. Run with docker-compose

```
$ docker-compose up
```

VII. Logging

The application uses winston as the default logger.

- All logs are saved in ./logs directory and at /logs in the docker container.
- The docker-compose file has a volume attached to container to expose host directory to the container for writing logs.
- · Console messages are prettified
- Each line in error log file is a stringified JSON.

Application logs available here: https://ftns.freeton-stats.org/log/info

VIII. Testing

- 1. Follow the Notification DeBot. User's Manual (dev network) to setup DeBot
- 2. Send test webhook server url to i4ins provider

Li ila a Natification Depart	
Hi, i'm a Notification DeBot.	
Checking if you already have a notification contract	
Info: your notification contract address is 0:908d450e668885c32dc8f1beb6262c5c9a041b0f2fbcf125fe4c68	33df05337fe
Available actions:	
Send ca	allbackUrl deviceToken to provider
Choose your provider:	
github.com/Strafi/free-t	ton-notifications-service, ID = i4ins
github.com/Strafi/free-t	ton-notifications-service, ID = i4ins

You will be asked to verify domain ownership, you can skip this step while testing

- 3. Open https://ftns.freeton-stats.org/test/. For now you will not see any notifications.
- 4. Trigger notification according to rules you've set in DeBot
- 5. You should see a notification on the page

Demo page for i4ins service

0TA/ffMTfi1PkF4MKl3xYAp89VragyIs

Nonce:

 $\textbf{Please, follow the } \underline{\textbf{Notification DeBot. User's Manual } \underline{(\text{dev network})} \text{ to setup DeBot}$

Then, send callback url 'https://ftns.freeton-stats.org/test/webhook' to the i4ins provider via DeBot

Note: this url is already verified so you can skip the instruction received from DeBot

If you have not seen any errors inside a DeBot, your notifications will appear below:

Nonce:	UTA/IIIVTITTPRE4MIXI3XTApo9VIggVIS
Encoded Message:	CMiMfTlCkflmn8UivdwiVpBro+RbLW7oT+lvl80wMVmM2W4dEwTaPffA0lYnbsMjPtrJCOJYu69AVHu+itm9E9n87Ho gYzoSKVcaDuF4+H+OZva/Odz0Y7JsLWls3lTCiNEfzqeruLLKpsVvU6AEmqB1pOD7RNCwDDqNQVSHRkOIXPxa/a84zHAxCygjQDOugSTu0KfPkNsHqkG6xRvXZDFy4T5t8ERK2Kri10JT48tldxJYo3NaUFSG90ikKORau3fDUzex8H6A0Qd44XipylcZT3o9ka9sj3/QEJ+Tgi5rgOqDr8jT+E0ml6v8PiRSa0fQS+y3VxlP4ZAdebSOeEptDx8dh8q6XydNHRrQNn46Jdnx/6GQ2eW45mfAEErvzCtMzlPsDjxuzLBlE2urvOlU1SM5r3ocG21ZRgdZC1BZ7kGazHs9A4SRHipYJ0HGwAV04AiB3Wa7McZ21E7KBi0QKmgkG+CLSnA6+M4+TQNX+KAc+YFGsssugyS39u9q4eiZuifATUCekJMj5sls5YGM2XlhNmwTbmWgD2OoHNQvKWCBd9NwRQcSDFJeHeOrMVCj4SgAVANhHN+olEg7YmE60UMQqbTVL/L1sW7JOEG0/lyQQPV4YR5Y8V4ezXTTQVKQGgf7NzVEo91TUs9lahGWGl+LlmZnNBl9ojowkd2QpoirQ3bt6YEkpaSgp0twbpaxu/HY5ktrnojgAaD8oPUpBgvyep8p4T8BK8l/un5dbTU9CGRDA9Zrbd0tnAskRSBntl5P9rYxTVmF2EHpGmLX6OvUQ8gZMNsns2EKTF1tsll7A8pSwXzPiyRg4HBQNPQxaZi0C5Tf0LX4Be5Cm0FfSNRKfvaFTNNwj0w6do0b4Phuw9WdwHoXvRa7RZNyyYuBJwTuLBVrz30pt9M8Woewi79TipwVqsdEXDp4LaYd0gLzfPnuoan12VjfcDhYg1/2ylHuJLE8JGZJqv+Ki9dmDkDTej0c1EBz4/CigkrF7+AGARWa6lKkirtfYvXDO1svOPti1mr3+j7DUsF5O1zAOYOfNv9x8kzGmLJOnCspSKTPGzHBD9OOBcGK43l6TKTzZuGnCZVZElxamywgJy9JEJQsBtYw937uGnGAWNmuGg8WK6XkJGeXOY/1M7C2jnc6hn2iw5gtd/iTJGBbcWRloHgMUBV7pB0x7Y9RmUd1eR83Ek0mF2wZRUuNlp4g0lcNhvi4nQYEQztW9OforuPvygaPd8TdQ==
Nonce:	MySa5PfZ/hYixQjLvk7UdbCClpf28y+x
Encoded Message:	pinP25Xl9efVTEwP1nwe9Jymadd5ipU1kiTX06gfxPHMFAMfsPYdOOqWceBJlAmgfFZHnopkVYXmEBwrxaZRVC7t A69UlqCvZtlCfyD9UqTSFli+q/lxpaBgw9ilK6ikNofRf4eS5s20sii6RfSwLVwc+qT6Va9iZ+APAf1sEWVPmSYTEVSVgn Vt7ivbxsOPzDHIRVpLbTkm2jUf67r173POBTUf5VDLhJVmvbgcRKKJSmwg+kD0g1HAkhsTiWNZclK6d5YrCscU1r4 SeiR4/oKK65+Vll8rYnGLr2cXwNZhyVz+OBI+0yhnwLCX+CSV88YBZPc9UqQHeqCPyUZqyy9U6rn1TT4weCZK08x 4AEYMK53Cya57Kh0VodDmijGqxTaT5Az9zCoFkxRbl515OZu0lD9kcalr+vUcTsyQNLBsLXyjjq5isWwl/zJ02QHZ9IE rKnllGj6uGwYcffH4q3WKC0XJLcj+g2P0Gmu9CO2ql8Kvs5LkTXod6awWd1JGtw6JJt7HpdM6mFSQ4YQg8rBArL7a CwzYfk1SSvlOSCT3D3ErbgBE2ERWXYg05lsXXbMKy9eEBj/ssMuaEtJllq7A9i/iOX9Gk76728hO8BbGQa2WfQhy2 Rcm6cESMUM7ptCaiihHilRr08nzxBgBtROoeAeweoRc+S0aXOobD4lljexDNkE/R3pTSp472mlwvTzW5E5FqhxyzR 5yJFkPw/a86AtaBzLLMxtCVA7eSW9Elv5kMtph+ErpjuioLBZmvXmbXPyohlLAGl30CqPU7P+TEGPOKG3UeDP82 EzVCgYmf+d8kVk9b2YXrFb1XoZRx8XFbbKoghWksdhl+FSLOYaobl/sg1LtQy5Pbhv5zpT2nXuRDcurWP2/9MwgbH 0//G3cviZFaY2FR4vTT4DoFUhjXOJGlA6MdV8zcg4p4xoOQPHWtWqOKna6avmhEEfTlx7gUhVK9ssmtDK4o+woty ZvASlrC/P37llqMhsb95bsYN93DSRK3jNpFCsQo5psNxKzDDKZ4De3ysZoCd652a/OP7YaxXYOhwB0LvGOaQcsA ULcInWBBQU+f8HEMehLf2EHKejemkSl5WG/WCzlMf754OjPqg==