Y.API Domain Database access service

- y.api

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About y-api service

The service provides domain categorization services and can be used both locally and in a distributed system. In the latter case, the speed of receiving a response decreases due to network delays.

A stable connection to the Internet is required for the uninterrupted operation of the service:

- loading the database and updating it
- sending counter_cat and counter_unknown_cat values
- sending additional information about the instance with the container

Stats are sent every 5 minutes.

Using y-api service

Starting the service

1. Install docker.
2. Load the archive with the container image with `sudo docker load -i y_api.tar.gz`
3. Run the image in the docker subnet.
   3.1 Alternatively, create a separate subnet
   `sudo docker network create --driver=bridge --subnet=193.33.33.0/24 y-api-net`
   and run the container
   `sudo docker run -it -d --net y-api-net --ip 193.33.33.33 y-api:1`
4. Check the service with `curl http://193.33.33.33/qwerty.com`

> 193.33.33.33 is an example, you can use any other network.

Service response: `{"category": [36, 49], "bad": false, "category_name": ["Education", "Computers & Internet"]}`

> **ATTENTION!** The request counter is sent every 5 minutes. Check time must be shorter so the data is not sent to the statistics server for billing.

Logging is done to **stdout** and **stderr**.

The supported request is **GET**.

Request examples

Request	**Answer**
curl -v http://193.33.33.33/qwerty.com	< HTTP/1.1 200 OK < Content-type: application/json < Connection: keep-alive * no chunk, no close, no size. Assume close to signal end * Closing connection 0 {"category": [36, 49], "bad": false, "category_name": ["Education", "Computers & Internet"]}
curl -v http://193.33.33.33/foo	< HTTP/1.1 404 Not Found < Connection: keep-alive * Connection #0 to host 193.33.33.33 left intact
curl -v http://193.33.33.33/stat/	< HTTP/1.1 200 OK < Content-type: application/json < Connection: close * Closing connection 0 {"counter_cat": [150002], "counter_unknown_cat": [0]}
curl -v -X POST http://193.33.33.33/qwerty.com	< HTTP/1.1 405 Method Not Allowed < Content-Type: text/html < Allow: GET < Connection: close * Closing connection 0
If there is no connection with the statistics server or any response from it other than "200 OK". curl -v http://193.33.33.33/qwerty.com	< HTTP/1.1 503 Service Unavailable < Content-type: application/json < Connection: close * Closing connection 0 {"details": "billing failure"}