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# Pryv.io Healthchecks

## Procedure & API endpoints

## Summary

This procedure describes how to perform regular healthcheck API calls to the Pryv.io API in order to remotely monitor its status.

### Domain name

This guide considers the platform using a certain domain name, which will be called `DOMAIN`.

### Core hosting name

In a Pryv.io platform, core machines are organized into clusters that we call hostings, each of these has an identifier `HOSTING_NAME`, which can be found at the following URL: <https://reg.DOMAIN/hostings>. The `HOSTING_NAME` are the keys of the object `regions:REGION_NAME:zones:ZONE_NAME:hostings`.

### Access token

The API calls for the healthcheck will currently require an access token `ACCESS_TOKEN` associated with a dedicated user account. The preparation chapter describes how to obtain it.

### Scope and limitations

The current procedure does not cover how to perform healthchecks per core machine, only per hosting. If you require core-level status, get in touch with your Pryv tech contact.



## Tools

DNS checks:

- dig version 9.12.3+

HTTP calls

- cURL v7.54.0+

## Preparation

As the current Pryv.io version does not have dedicated API endpoints for a thorough healthcheck, we create a dedicated user account in order to do so.

This preparation phase describes how to create an account and obtain a non-expirable token. This must be done once and the username/token pairs stored for automatic API healthcheck calls.

### Create account

We begin by creating an account, we propose to use the following credentials, but these can be modified at the user's discretion:

- **username:** healthmetrics01
- **password:** healthmetrics01
- **email:** healthmetrics01@\${DOMAIN}

```
curl -i -X POST -H 'Content-Type: application/json' \
-d '{"hosting":"${HOSTING_NAME}",
  "username": "healthmetrics01",
  "password": "healthmetrics01",
  "email": "healthmetrics01@${DOMAIN}",
  "language": "en",
  "appid": "pryv-metrics"}' \
"https://reg.${DOMAIN}/user/"
```

If you are using a default configuration, you can use the default web app:

1. Go to [https://sw.\\${DOMAIN}/access/register.html](https://sw.${DOMAIN}/access/register.html)
2. Fill the fields with:
  - **email:** healthmetrics01@\${DOMAIN}
  - **username:** healthmetrics01
  - **password:** healthmetrics01
  - **password confirmation:** healthmetrics01



## Create token

In order to obtain a non-expirable access token, we must do 2 calls: first sign in with the user password to obtain a temporary personal token then use it to obtain a non-expirable one.

### - Sign in:

```
curl -i -H "Content-Type: application/json" \
-H "Origin: https://sw.${DOMAIN}" \
-X POST \
-d '{"username":"healthmetrics01",
"password":"healthmetrics01",
"appId":"pryv-metrics"}' \
"https://healthmetrics01.${DOMAIN}/auth/login"
```

The response body should contain a valid personal token under the field `token`:

```
{
  "meta":
  {
    "apiVersion":"1.3.51",
    "serverTime":1548952964.011
  },
  "token":"${PERSONAL_TOKEN}",
  "preferredLanguage":"en"
}
```

### - Create token

```
curl -i -X POST -H 'Content-Type: application/json' \
-H 'Authorization: ${PERSONAL_TOKEN}' \
-d '{"name":"metricsAccess",
"permissions":[{"streamId":"*", "level":"manage"}]}' \
"https://healthmetrics01.${DOMAIN}/accesses"
```

The response body should contain a valid access token under the `access: token` field:

```
{
  "meta":
  {
    "apiVersion":"1.3.51",
    "serverTime":1548953274.902
  },
  "access":
  {
    "name":"metricsAccess",
    "permissions":
    [
      {"streamId":"*", "level":"manage"}
    ],
    "type":"shared",
    "token":"${ACCESS_TOKEN}",
  }
}
```



```
    "created":1548953274.877,  
    "createdBy":"cjrku1o5s00040t0cb5xw1upi",  
    "modified":1548953274.877,  
    "modifiedBy":"cjrku1o5s00040t0cb5xw1upi",  
    "id":"cjrku1p00060t0czs7ect45"  
  }  
}
```

If you are using a default configuration, you can use the default web app:

1. Go to <https://api.pryv.com/app-web-access/?pryv-reg=reg.#{DOMAIN}>
2. Click on **Master Token** radio button
3. Click on **Request Access** button
4. Click on **Sign in Pryv** button
5. Enter credentials: **healthmetrics01/healthmetrics01** in pop-up window
6. Click on **Sign in** button
7. Click on **Accept** button
8. Copy the Access token and save it for this machine's healthchecks, we'll refer to it as **#{ACCESS\_TOKEN}**

## Healthchecks

### Register

#### Call

HTTP GET [https://reg.#{DOMAIN}/healthmetrics01/check\\_username](https://reg.#{DOMAIN}/healthmetrics01/check_username)

```
curl https://reg.#{DOMAIN}/healthmetrics01/check_username
```

#### Expected result

Status: 200

### DNS

#### Call

Dig A [healthmetrics01.#{DOMAIN}](https://reg.#{DOMAIN}/healthmetrics01)

#### Expected result

An answer.



## Core

### Call

Authentication header: \${ACCESS\_TOKEN}

HTTP GET https://healthmetrics01.\${DOMAIN}/events?limit=1

```
curl -i -H 'Authorization: ${ACCESS_TOKEN}'  
"https://healthmetrics01.${DOMAIN}/events?limit=1"
```

### Expected result

Status: 200