

# Canaries API

## Endpoints

- v1 – API version 1

## Routes

- [Auth](#)
  - [Login](#)
  - [Logout](#)
  - [Get all users](#)
  - [Get a particular user](#)
  - [Add new users](#)
  - [Update a particular user](#)
  - [Delete a particular user](#)
- [Domains](#)
  - [Get all domains](#)
  - [Add new domains](#)
  - [Delete a particular domain](#)
- [Monitored sites](#)
  - [Get all sites](#)
  - [Add new sites](#)
  - [Delete a particular site](#)
- [Canary nodes](#)
  - [Get all canary nodes](#)
  - [Generate new fake data for canary node](#)
  - [Re-generate fake data for canary node](#)
  - [Delete fake data for canary node](#)
  - [Create new canary nodes](#)
  - [Update canary node](#)
  - [Delete a particular canary node](#)
- [Mail](#)
  - [Get all mail for a particular canary node](#)

## Auth

- [Login](#)
- [Logout](#)
- [Get all users](#)
- [Get a particular user](#)
- [Add new users](#)
- [Update a particular user](#)
- [Delete a particular user](#)

**`/[endpoint]/auth/login : POST`**

- description: Log in and get access token

- request:

- parameters:

- body:

```
{  
  "username": "user",  
  "password": "secret123"  
}
```

- response:

- http\_code: 200

- parameters:

- body:

```
{  
  "token": "JWT_ACCESSTOKEN",  
  "token_type": "bearer",  
  "expires": 3600,  
  "uuid": "uuidstring",  
  "permissions": ["admin"],  
  "canaries": []  
}
```

- response:

- http\_code: 400

- parameters:

- http\_headers:

- X-RateLimit-Limit: 10

- X-RateLimit-Remaining: 7

- body:

```
{  
  "code": 0,  
  "message": "Bad request",  
  "details": "Invalid credentials..."  
}
```

- response:

- http\_code: 429

- parameters:

- http\_headers:

- X-RateLimit-Limit: 10

- X-RateLimit-Remaining: 0

- X-RateLimit-Reset: 1582480798

- Retry-After: 60

- body:

```
{
  "code": 1,
  "message": "Rate limit exceeded",
  "retry": 60
}
```

---

### **/endpoint/auth/logout : GET**

- decription: Log user out
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
- response:
  - http\_code: 200

---

### **/endpoint/auth/users : GET**

- decription: Get all users
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - request (with limit - optional): limit=10
    - request (with offset - optional): offset=100
    - request (with limit & offset): limit=5&offset=50
- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "count": 10,
  "total": 2314,
  "offset": 100,
  "users": [
    {
      "uuid": "uuidstring1",
      "username": "jozkomrkvicka",
      "permissions": ["admin", "worker"],
      "canaries": [],
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28",
      "updated_by": null
    }
  ]
}
```

```

    },
    {
      "uuid": "uuidstring2",
      "username": "peter",
      "permissions": ["worker"],
      "canaries": ["uuidstring1", "uuidstring2"],
      "created_at": "2020-02-19 11:33:01",
      "updated_at": "2020-02-19 11:33:01",
      "updated_by": "adminuuidstring"
    }
  ]
}

```

- response:
  - http\_code: 400
  - parameters:
  - body:

```

{
  "code": 0,
  "message": "Token not provided"
}

```

- response:
  - http\_code: 401
  - parameters:
  - body:

```

{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}

```

- response:
  - http\_code: 400
  - parameters:
  - body:

```

{
  "code": 2,
  "message": "Invalid range"
}

```

---

## **{endpoint}/auth/users/{uuid} : GET**

- description: Get a particular user information
- request

- parameters:
  - http\_headers:
    - Authentication: "bearer JWT\_ACCESSTOKEN"
  - {uuid}: Public user identification string
- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "uuid": "uuidstring",
  "username": "jozkomrkvicka",
  "permissions": ["admin", "worker"],
  "canaries": ["uuidstring1", "uuidstring2"],
  "created_at": "2020-02-19 08:46:28",
  "updated_at": "2020-02-19 08:46:28"
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "..."}
}
```

---

## **{endpoint}/auth/users : POST**

- description: Create a new user
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - body:

```
{
  "users": [
    {
      "username": "peter",
      "password": "heslo",
      "permissions": ["worker"],
      "canaries": ["uuidstring1", "uuidstring2"]
    }
  ]
}
```

- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "users": [
    {
      "username": "peter",
      "permissions": ["worker"],
      "canaries": ["uuidstring1", "uuidstring2"],
      "uuid": "uuidstring",
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28",
      "updated_by": "adminuuidstring"
    }
  ]
}
```

- response:
  - http\_code: 400
  - parameters:

- body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:

- http\_code: 401
- parameters:

- body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

- response:

- http\_code: 400
- parameters:

- body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "..."
}
```

---

## **`/endpoint/auth/users/{uuid} : PUT`**

- description: Update a particular user
- request

- parameters:

- http\_headers:

- Authentication: "bearer JWT\_ACCESSTOKEN"

- **{uuid}**: Public user identification string

- body:

```
{
  "username": "peter1",
  "password": "noveheslo",
  "permissions": { "admin": true, "worker": false }
}
```

- response:

- http\_code: 200

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "..."
}
```

---

## **`{endpoint}/auth/users/{uuid}`: DELETE**

- description: Delete a particular user
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - **{uuid}**: Public user identification string
- response:
  - http\_code: 200
- response:
  - http\_code: 400



- parameters:

- body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:

- http\_code: 401

- parameters:

- body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

---

## **{endpoint}/auth/refresh\_token : GET**

- description: Get new access token

- request

- parameters:

- http\_headers:

- Authentication: "bearer JWT\_ACCESSTOKEN"

- response:

- http\_code: 200

- parameters:

- body:

```
{
  "token": "JWT_ACCESSTOKEN",
  "token_type": "bearer",
  "expires": 3600
}
```

- response:

- http\_code: 400

- parameters:

- body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "...
}
```

---

## Domains

- [Get all domains](#)
- [Add new domains](#)
- [Delete a particular domain](#)

### **/endpoint}/domains : GET**

- description: Prints all available canary domains
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - request (with limit - optional): limit=10
    - request (with offset - optional): offset=100
    - request (with limit & offset): limit=5&offset=50
- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "count": 10,
  "total": 455,
  "offset": 100,
  "domains": [
    {
      "uuid": "uuidstring1",
      "domain": "domainname.tld",
      "created_at": "2020-02-19 08:46:28",

```

```
        "updated_at": "2020-02-19 08:46:28"
      },
      {
        "uuid": "uuidstring2",
        "domain": "another.tld",
        "created_at": "2020-02-19 08:46:28",
        "updated_at": "2020-02-19 08:46:28"
      }
    ]
  }
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "...
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 2,
  "message": "Invalid range"
}
```

---

## **{endpoint}/domains : POST**

- description: Add new domain(s)
- request:
  - parameters:

- http\_headers:
  - Authentication: "bearer JWT\_ACCESSTOKEN"
- body:

```
{  
  "domains": ["domena.sk"]  
}
```

- response:
  - http\_code: 200
  - parameters:
    - body:

```
{  
  "domains": [  
    {  
      "uuid": "uuidstring",  
      "domain": "domena.sk",  
      "created_at": "2020-02-19 08:46:28",  
      "updated_at": "2020-02-19 08:46:28"  
    }  
  ]  
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{  
  "code": 0,  
  "message": "Token not provided"  
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{  
  "code": 1,  
  "message": "Unauthorized",  
  "details": "..."  
}
```

- response:
  - http\_code: 400
  - parameters:

- body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "Domains already exist..."
}
```

---

## **{endpoint}/domains/{uuid} : DELETE**

- decription: Delete a domain
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - {uuid}: Canary domain uuid
- response:
  - http\_code: 200
- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

---

## **Monitored sites**

- [Get all sites](#)
- [Add new sites](#)
- [Delete a particular site](#)

## **`/endpoint/sites : GET`**

- description: Prints all monitored sites
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - request (with limit - optional): limit=10
    - request (with offset - optional): offset=100
    - request (with limit & offset): limit=5&offset=50
- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "count": 10,
  "total": 234,
  "offset": 100,
  "sites": [
    {
      "uuid": "uuidstring1",
      "site": "facebook.com",
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28"
    },
    {
      "uuid": "uuidstring2",
      "site": "azet.sk",
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28"
    }
  ]
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401

- parameters:

- body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."}

```

- response:

- http\_code: 400

- parameters:

- body:

```
{
  "code": 2,
  "message": "Invalid range"}

```

---

## **{endpoint}/sites : POST**

- description: Add new site(s)

- request:

- parameters:

- http\_headers:

- Authentication: "bearer JWT\_ACCESSTOKEN"

- body:

```
{
  "sites": ["bazos.sk"]}

```

- response:

- http\_code: 200

- parameters:

- body:

```
{
  "sites": [
    {
      "uuid": "uuidstring",
      "site": "bazos.sk",
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28"}
  ]
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "Sites already exist..."
}
```

---

## **{endpoint}/sites/{uuid}: DELETE**

- decription: Delete a site
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - {uuid}: Monitored site uuid
- response:
  - http\_code: 200
- response:
  - http\_code: 400



- parameters:

- body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:

- http\_code: 401

- parameters:

- body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

---

## Canary nodes

- [Get all canary nodes or canary details](#)
- [Generate new fake data for canary node](#)
- [Re-generate fake data for canary node](#)
- [Delete fake data for canary node](#)
- [Create new canary nodes](#)
- [Update canary node](#)
- [Delete a particular canary node](#)

### **{/endpoint}/canaries : GET**

- description: Prints all canary nodes available to the user. If uuid or email parameters are specified, then only detail of that canary will be returned.
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - request (with limit - optional): limit=10
    - request (with offset - optional): offset=100
    - request (with limit & offset): limit=5&offset=50
    - request (with uuid): uuid=uuidstring
    - request (with email): email=milan.paradajka@domena.tld
- response:
  - http\_code: 200
  - parameters:

- body:

```
{
  "count": 10,
  "total": 11456,
  "offset": 100,
  "canaries": [
    {
      "uuid": "uuidstring",
      "domain": "uuidstring",
      "site": "uuidstring",
      "assignee": "uuidstring",
      "testing": false,
      "setup": false,
      "email": "milan.paradajka@domena.tld",
      "password": "hesielko123",
      "data": {
        "username": "milan.paradajka",
        "firstname": "Milan",
        "lastname": "Paradajka",
        "phone": "+412 123 456 789"
      },
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28",
      "updated_by": "adminuuidstring"
    }
  ]
}
```

- response:

- http\_code: 200

- parameters:

- body:

```
{
  "uuid": "uuidstring",
  "domain": "uuidstring",
  "site": "uuidstring",
  "assignee": "uuidstring",
  "testing": false,
  "setup": true,
  "email": "milan.paradajka@domena.tld",
  "password": "hesielko123",
  "data": {
    "username": "milan.paradajka",
    "firstname": "Milan",
    "lastname": "Paradajka",
    "phone": "+412 123 456 789"
  },
  "created_at": "2020-02-19 08:46:28",
  "updated_at": "2020-02-19 08:46:28",
  "updated_by": "adminuuidstring"
}
```

- 
- response:
    - http\_code: 400
    - parameters:
      - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "...
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 2,
  "message": "Invalid range"
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 3,
  "message": "Bad request",
  "details": "Canary does not exist..."
}
```

---

### **`/endpoint/canaries/{uuid}/{parameter}`: GET**

- description: Generates fake information for the canary node registration process

- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - {uuid}: Canary node uuid
    - {parameter}: Parameter name
      - username
      - firstname
      - lastname
      - birthday
      - sex
      - address
      - phone

- response:
  - http\_code: 200
  - parameters:
    - body:

```
{  
  "parameter": "value"  
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{  
  "code": 0,  
  "message": "Token not provided"  
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{  
  "code": 1,  
  "message": "Unauthorized",  
  "details": "..."  
}
```

- response:
  - http\_code: 400

- parameters:

- body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "..."
```

---

## **`/endpoint/canaries/{uuid}/{parameter}`: POST**

- description: Re-generates fake information

- request

- parameters:

- http\_headers:

- Authentication: "bearer JWT\_ACCESSTOKEN"

- **`{uuid}`**: Canary node uuid

- **`{parameter}`**: Parameter name

- username
  - firstname
  - lastname
  - birthday
  - sex
  - address
  - phone

- response:

- http\_code: 200

- parameters:

- body:

```
{
  "parameter": "value"
```

- response:

- http\_code: 400

- parameters:

- body:

```
{
  "code": 0,
  "message": "Token not provided"
```

- response:

- http\_code: 401
- parameters:
  - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "..."
```

---

## **`{endpoint}/canaries/{uuid}/{parameter}`: DELETE**

- description: Deletes fake information
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - **{uuid}**: Canary node uuid
    - **{parameter}**: Parameter name
      - username
      - firstname
      - lastname
      - birthday
      - sex
      - address
      - phone
- response:
  - http\_code: 200
- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "...
}
```

---

## **/endpoint/canaries : POST**

- description: Create new canary nodes
- request:
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - password strength (optional - default random):
      - dictionary - random password from the top 1 million
      - simple - word + word(p=0.7) + digit + digit(p=0.5) + digit(p=0.1)
      - random - 8 random characters from [a-zA-Z0-9]
      - strong - 13 - 18 totally random characters
    - body:

```
{
  "domain": "uuidstring",
  "site": "uuidstring",
  "testing": false,
  "count": 10,
  "password_strength": "simple"
}
```

- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "canaries": [
    {
```

```

        "uuid": "uuidstring",
        "domain": "uuidstring",
        "site": "uuidstring",
        "assignee": "uuidstring",
        "testing": false,
        "setup": false,
        "email": "milan.paradajka@domena.tld",
        "password": "hesielko123",
        "data": {
            "username": "milan.paradajka"
        },
        "created_at": "2020-02-19 08:46:28",
        "updated_at": "2020-02-19 08:46:28",
        "updated_by": "adminuuidstring"
    }
}

```

- response:
  - http\_code: 400
  - parameters:
    - body:

```

{
    "code": 0,
    "message": "Token not provided"
}

```

- response:
  - http\_code: 401
  - parameters:
    - body:

```

{
    "code": 1,
    "message": "Unauthorized",
    "details": "..."
}

```

- response:
  - http\_code: 400
  - parameters:
    - body:

```

{
    "code": 2,
    "message": "Bad request",
    "details": "..."
}

```



---

## **`/endpoint/canaries/{uuid}` : PUT**

- description: Update canary information. Changing of every, but setup, parameter needs admin permission. Setup parameter can be updated by the assignee.

- request

- parameters:

- http\_headers:

- Authentication: "bearer JWT\_ACCESSTOKEN"

- **`{uuid}`**: Canary node uuid

- site
      - assignee
      - testing
      - setup

- response:

- http\_code: 200

- response:

- http\_code: 400

- parameters:

- body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:

- http\_code: 401

- parameters:

- body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "...
}
```

- response:

- http\_code: 400

- parameters:

- body:

```
{
  "code": 2,
  "message": "Bad request",
  "details": "..."}

```

---

## **{endpoint}/canaries/{uuid}: DELETE**

- description: Delete a canary node
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - {uuid}: Canary node uuid
- response:
  - http\_code: 200
- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"}

```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."}

```

---

## **Mail**

- [Get all mail for a particular canary node](#)

## **{endpoint}/mail/{uuid}: GET**

- description: Prints all e-mails received by a particular canary account

- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESSTOKEN"
    - {uuid}: Canary node uuid
- response:
  - http\_code: 200
  - parameters:
    - body:

```
{
  "emails": [
    {
      "uuid": "uuidstring",
      "canary": "uuidstring",
      "received_on": "2020-02-19 08:45:00",
      "from": "sender@domain.tld",
      "subject": "message subject",
      "body": "raw body",
      "created_at": "2020-02-19 08:46:28",
      "updated_at": "2020-02-19 08:46:28"
    }
  ]
}
```

- response:
  - http\_code: 400
  - parameters:
    - body:

```
{
  "code": 0,
  "message": "Token not provided"
}
```

- response:
  - http\_code: 401
  - parameters:
    - body:

```
{
  "code": 1,
  "message": "Unauthorized",
  "details": "..."
}
```

- response:

- http\_code: 400
- parameters:
  - body:

```
{  
  "code": 2,  
  "message": "Invalid range"  
}
```