

# Canaries API

## Endpoints

- v1 – API version 1

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## Auth

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**`/[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\_ACCESS\_TOKEN"
    - permissions: User permissions - can be: admin, worker or expert
    - 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\_ACCESS\_TOKEN"

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

- permissions: User permissions – can be: `admin`, `worker` or `expert`

- body:

```
{
  "username": "peter1",
  "password": "noveheslo",
  "permissions": ["admin"],
  "canaries": ["uuidstring"]
}
```

- 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**

- decription: 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**

- description: 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..."
}
```



- description: Delete a site
- request
  - parameters:
    - http\_headers:
      - Authentication: "bearer JWT\_ACCESS\_TOKEN"
    - {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"
}
```