# Canaries API

## Endpoints

* v1 - API version 1

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### Auth

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* [Delete a particular user](#route-auth-deleteUser)

#### /{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

* decription: 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

* decription: Create a new user
* request
  + parameters:
    - http\_headers:
      * Authentication: "bearer JWT\_ACCESSTOKEN"
    - 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

* decription: Update a particular user
* request
  + parameters:
    - http\_headers:
      * Authentication: "bearer JWT\_ACCESSTOKEN"
    - **{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

* decription: 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](#route-domains-get)
* [Add new domains](#route-domains-add)
* [Delete a particular domain](#route-domains-delete)

#### /{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](#route-sites-get)
* [Add new sites](#route-sites-add)
* [Delete a particular site](#route-sites-delete)

#### /{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](#route-canaries-get)
* [Generate new fake data for canary node](#route-canaries-gen)
* [Re-generate fake data for canary node](#route-canaries-genNew)
* [Delete fake data for canary node](#route-canaries-genDel)
* [Create new canary nodes](#route-canaries-add)
* [Update canary node](#route-canaries-update)
* [Delete a particular canary node](#route-canaries-delete)

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

* description: Prints all canary nodes available to the user. Account with expert permission will get all canaries that have **testing** parameter set to true, and account with admin permission will get all canaries. 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
      * trivial - word + digit + digit(p=0.5)
    - 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

* decription: 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](#route-mail-get)

#### /{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"  
      }