

Canary back-end API

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- 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"
}
```

- 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. Multiple permissions can be specified.
 - canaries: This parameter is optional. Canaries can be later assigned to users.
 - body:

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

- response:
 - http_code: 200
 - parameters:
 - body:

```
{
  "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
 - 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

- 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](#)
- [Get domain by uuid](#)
- [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:

```
{
  "domain": "domena.sk"
}
```

- response:

- http_code: 200

- parameters:

- body:

```
{
  "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}`: GET

- description: Get domain name by uuid
- request
 - parameters:
 - http_headers:
 - Authentication: "bearer JWT_ACCESSTOKEN"
 - **{uuid}**: Canary domain uuid
- response:
 - http_code: 200
 - parameters:
 - body:

```
{
  "uuidstring": "domena.sk"
}
```

- 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": "Domain does not 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](#)
- [Get monitored site by uuid](#)
- [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:

```
{
  "site": "bazos.sk"
}
```

- response:
 - http_code: 200
 - parameters:
 - body:


```
{
  "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}: GET

- decription: Get site name by uuid
- request
 - parameters:
 - http_headers:
 - Authentication: "bearer JWT_ACCESSTOKEN"

- **{uuid}**: Monitored site uuid
- response:
 - http_code: 200
 - parameters:
 - body:

```
{
  "uuidstring": "facebook.com"
}
```

- 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": "Site does not exist..."
}
```

{endpoint}/sites/{uuid}: DELETE

- description: 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. 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"
 - site (optional) - site does not need to be supplied, if the canary does not require matching to the source of the leak
 - 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

- 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"
}
```