

API Usage



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The Forgejo API for all versions that have the same major number (e.g. the major number of Forgejo 7.0.0 is 7) are compatible. There are breaking changes (e.g. removal of an API endpoint) when the major number changes and the release notes of this major version provide explanations to help developers upgrade their software accordingly. Read more about the [Forgejo numbering scheme](#).

⚠ **Warning:** The following instructions use `forgejo.example.org` as placeholder for the Forgejo instance URL and other placeholders, such as `{yourusername}` and `{yourpassword}`, which need to be replaced before running these commands.

Enabling/configuring API access

By default, the API is enabled on Forgejo instances, but instance administrators may choose to [disable it](#).

Authentication

Forgejo supports these methods of API authentication:

- HTTP basic authentication
- `Authorization: Bearer ...` header in HTTP headers
- `Authorization: token ...` header in HTTP headers

Generating and listing API tokens

A new token can be generated with a `POST` request to `/users/:name/tokens`.

Note that `/users/:name/tokens` is a special endpoint and requires you to authenticate using `BasicAuth` and a password, as follows:

```
$ curl -H "Content-Type: application/json" -d '{"name":"test","scopes":["write:package"]}' -u {yourusername}:{yourpassword} https://forgejo.example.org/api/v1/users/{username}/tokens
{"id":1,"name":"test","sha1":"9fcb1158165773dd010fca5f0cf7174316c3e37d","token_last_eight":"16c3e37d","scopes":["write:package"]}
```

The keys of the JSON data object are `name` (the display name for the token) and `scopes` (list of [Access Token scope](#) names).

The `sha1` (the token) is only returned once and is not stored in plain-text. It will not be displayed when listing tokens with a `GET` request; e.g.

```
$ curl --url https://{yourusername}:{yourpassword}@forgejo.example.org/api/v1/users/{username}/tokens
[{"name":"test","sha1":"","token_last_eight":"....."}, {"name":"dev","sha1":"","token_last_eight":"....."}]
```

To use the API with basic authentication with two factor authentication (2FA) enabled, you'll need to send an additional header that contains the one-time password (6-digit rotating token). An example of the header is `X-Forgejo-OTP: 123456` where `123456` is where you'd place the code from your authenticator. Here is how the request would look like in curl:

```
$ curl -H "X-Forgejo-OTP: 123456" --url https://{yourusername}:{yourpassword}@forgejo.example.org/api/v1/users/{username}/tokens
```

You can also create an API key token via your Forgejo installation's web interface: [Settings | Applications | Generate New Token](#).

OAuth2 Provider

Access tokens obtained from Forgejo's OAuth2 provider are accepted by these methods:

- `Authorization: Bearer ...` header in HTTP headers
- `token=...` parameter in URL query string
- `access_token=...` parameter in URL query string

More on the `Authorization:` header

For historical reasons, Forgejo needs the word `token` included before the API key token in an authorization header, like this:

```
Authorization: token 65eaa9c8ef52460d22a93307fe0aee76289dc675
```

In a `curl` command, for instance, this would look like:

```
curl "https://forgejo.example.org/api/v1/repos/test1/test1/issues" \  
  -H "accept: application/json" \  
  -H "Authorization: token 65eaa9c8ef52460d22a93307fe0aee76289dc675" \  
  -H "Content-Type: application/json" -d '{"body": "testing", "title": "test 20"}' \  
  -i
```

As mentioned above, the token used is the same one you would use in the `token=` string in a GET request.

Sudo

The API allows admin users to sudo API requests as another user. Simply add either a `sudo=` parameter or `Sudo:` request header with the username of the user to sudo.

Pagination

The API supports pagination. The `page` and `limit` parameters are used to specify the page number and the number of items per page. As well, the `Link` header is returned with the next, previous, and last page links if there are more than one page. The `x-total-count` is also returned to indicate the total number of items.

```
curl -v "https://forgejo.example.org/api/v1/repos/search?limit=1" \  
... \  
< link: <https://forgejo.example.org/api/v1/repos/search?limit=1&page=2>; \  
rel="next", <https://forgejo.example.org/api/v1/repos/search?limit=1&page=5252>; rel="last"
```

```
...
< x-total-count: 5252
```

The default and maximum values for the `page` parameter can be obtained from the `https://forgejo.example.org/api/v1/settings/api` endpoint.

```
$ curl https://forgejo.example.org/api/v1/settings/api
{
  "max_response_items": 50,
  "default_paging_num": 30,
  "default_git_trees_per_page": 1000,
  "default_max_blob_size": 10485760
}
```

API Guide

API Reference guide is auto-generated by Swagger and available on:

`https://forgejo.example.org/api/swagger`. For instance, find the reference guide of [Forgejo Next](#) at <https://try.next.forgejo.org/api/swagger>.

The OpenAPI document is at: `https://forgejo.example.org/swagger.v1.json`

SDKs

Find [clients using the API](#) and [API client libraries](#) at the list of [Delightful Forgejo](#).

```
[[{"name": "#3", "version": "1.0.0", "date": "2026-07-26 05:23:37 UTC"}, {"name": "cocobook-sync", "version": "1.0.0", "date": "2026-09-29 09:45:41 UTC"}]]
```