

The REST API is now versioned. For more information, see "[About API versioning](#)."

OAuth authorizations

Use the REST API to manage the access OAuth apps have to your account.

About OAuth authorizations

You can use the REST API to manage the access OAuth apps have to your account. You can only access these endpoints via basic authentication using your username and password, not tokens.

List your grants

Deprecation Notice: GitHub Enterprise Server will discontinue the [OAuth Authorizations API](#), which is used by integrations to create personal access tokens and OAuth tokens, and you must now create these tokens using our [web application flow](#). The [OAuth Authorizations API](#) will be removed on November, 13, 2020. For more information, including scheduled brownouts, see the [blog post](#).

You can use this API to list the set of OAuth applications that have been granted access to your account. Unlike the [list your authorizations](#) API, this API does not manage individual tokens. This API will return one entry for each OAuth application that has been granted access to your account, regardless of the number of tokens an application has generated for your user. The list of OAuth applications returned matches what is shown on [the application authorizations settings screen within GitHub](#). The `scopes` returned are the union of scopes authorized for the application. For example, if an application has one token with `repo` scope and another token with `user` scope, the grant will return `["repo", "user"]`.

Parameters for "List your grants"

Headers

`accept` string

Setting to `application/vnd.github+json` is recommended.

Query parameters

`per_page` integer

The number of results per page (max 100).

Default: `30`

`page` integer

Page number of the results to fetch.

Default: `1`

`client_id` string

The client ID of your GitHub app.

HTTP response status codes for "List your grants"

Status code	Description
200	OK
304	Not modified
401	Requires authentication
403	Forbidden
404	Resource not found

Code samples for "List your grants"

GET

/applications/grants

cURL

JavaScript

GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/applications/grants
```

Response

Example response

Response schema

Status: 200

```
[ { "id": 1, "url": "https://HOSTNAME/applications/grants/1", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "created_at": "2011-09-06T17:26:27Z", "updated_at": "2011-09-06T20:39:23Z", "scopes": [ "public_repo" ] } ]
```

Get a single grant

Deprecation Notice: GitHub Enterprise Server will discontinue the [OAuth Authorizations API](#), which is used by integrations to create personal access tokens and OAuth tokens, and you must now create these tokens using our [web application flow](#). The [OAuth Authorizations API](#) will be removed on November, 13, 2020. For more information, including scheduled brownouts, see the [blog post](#).

Parameters for "Get a single grant"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

grant_id integer **Required**

The unique identifier of the grant.

HTTP response status codes for "Get a single grant"

Status code	Description
200	OK
304	Not modified
401	Requires authentication
403	Forbidden

Code samples for "Get a single grant"

GET

/applications/grants/{grant_id}

cURL

JavaScript

GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/applications/grants/GRANT_ID
```

Response

Example response

Response schema

Status: 200

```
{ "id": 1, "url": "https://HOSTNAME/applications/grants/1", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "created_at": "2011-09-06T17:26:27Z", "updated_at": "2011-09-06T20:39:23Z", "scopes": [ "public_repo" ] }
```

Delete a grant

Deprecation Notice: GitHub Enterprise Server will discontinue the [OAuth Authorizations API](#), which is used by integrations to create personal access tokens and OAuth tokens, and you must now create these tokens using our [web application flow](#). The [OAuth Authorizations API](#) will be removed on November, 13, 2020. For more information, including scheduled brownouts, see the [blog post](#).

Deleting an OAuth application's grant will also delete all OAuth tokens associated with the application for your user. Once deleted, the application has no access to your account and is no longer listed on [the application authorizations settings screen within GitHub](#).

Parameters for "Delete a grant"

Headers

accept

string

Setting to `application/vnd.github+json` is recommended.

Path parameters

grant_id integer **Required**
The unique identifier of the grant.

HTTP response status codes for "Delete a grant"

Status code	Description
204	No Content
304	Not modified
401	Requires authentication
403	Forbidden

Code samples for "Delete a grant"

DELETE

/applications/grants/{grant_id}

cURL

JavaScriptGitHub CLI

curl -L \ -X DELETE \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/applications/grants/GRANT_ID

Response

Status: 204

List your authorizations

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Parameters for "List your authorizations"

Headers

accept string
Setting to `application/vnd.github+json` is recommended.

Query parameters

per_page integer
The number of results per page (max 100).
Default: `30`

page integer

Page number of the results to fetch.

Default: 1

`client_id` string

The client ID of your GitHub app.

HTTP response status codes for "List your authorizations"

Status code	Description
200	OK
304	Not modified
401	Requires authentication
403	Forbidden
404	Resource not found

Code samples for "List your authorizations"

GET

/authorizations

cURL

JavaScript

GitHub CLI

curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations

Response

Example response

Response schema

Status: 200

[{ "id": 2, "url": "https://enterprise.octocat.com/api/v3/authorizations/2", "app": { "name": "My personal access token", "url": "https://docs.github.com/enterprise/rest/enterprise-admin/users#list-personal-access-tokens", "client_id": "00000000000000000000" }, "token": "ghp_16C7e42F292c6912E7710c838347Ae178B4a", "hashed_token": "23cffb2fab1b0a62747863eba88cb9327e561f2f7a0c8661c0d9b83146cb8d45", "token_last_eight": "Ae178B4a", "note": "My personal access token", "note_url": null, "created_at": "2019-04-24T21:49:02Z", "updated_at": "2019-04-24T21:49:02Z", "scopes": ["admin:business", "admin:pgp_key", "admin:org", "admin:org_hook", "admin:pre_receive_hook", "admin:public_key", "admin:repo_hook", "delete_repo", "gist", "notifications", "repo", "user", "write:discussion"], "fingerprint": null }

Create a new authorization

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Warning: Apps must use the [web application flow](#) to obtain OAuth tokens that work with GitHub Enterprise Server SAML organizations. OAuth tokens created using the Authorizations API will be unable to access GitHub Enterprise Server SAML organizations. For more information, see the [blog post](#).

Creates OAuth tokens using [Basic Authentication](#). If you have two-factor authentication setup, Basic Authentication for this

endpoint requires that you use a one-time password (OTP) and your username and password instead of tokens. For more information, see "[Working with two-factor authentication](#)."

To create tokens for a particular OAuth application using this endpoint, you must authenticate as the user you want to create an authorization for and provide the app's client ID and secret, found on your OAuth application's settings page. If your OAuth application intends to create multiple tokens for one user, use `fingerprint` to differentiate between them.

You can also create tokens on GitHub Enterprise Server from the [personal access tokens settings](#) page. Read more about these tokens in [the GitHub Help documentation](#).

Organizations that enforce SAML SSO require personal access tokens to be allowed. For more information, see "[About identity and access management with SAML single sign-on](#)" in the GitHub Enterprise Cloud documentation.

Parameters for "Create a new authorization"

Headers

`accept` string
Setting to `application/vnd.github+json` is recommended.

Body parameters

`scopes` array of strings or null
A list of scopes that this authorization is in.

`note` string
A note to remind you what the OAuth token is for.

`note_url` string
A URL to remind you what app the OAuth token is for.

`client_id` string
The OAuth app client key for which to create the token.

`client_secret` string
The OAuth app client secret for which to create the token.

`fingerprint` string
A unique string to distinguish an authorization from others created for the same client ID and user.

HTTP response status codes for "Create a new authorization"

Status code	Description
201	Created
304	Not modified
401	Requires authentication
403	Forbidden
410	Gone
422	Validation failed, or the endpoint has been spammed.

Code samples for "Create a new authorization"

POST

/authorizations

cURL

JavaScript

GitHub CLI

```
curl -L \ -X POST \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations \ -d '{"scopes":["public_repo"],"note":"optional note","note_url":"http://optional/note/url","client_id":"abcde12345fghij67890","client_secret":"3ef4ad510c59ad37bac6bb4f80047fb3aee3cc7f"}'
```

Response

Example response

Response schema

Status: 201

```
{ "id": 1, "url": "https://HOSTNAME/authorizations/1", "scopes": [ "public_repo" ], "token": "ghu_16C7e42F292c6912E7710c838347Ae178B4a", "token_last_eight": "Ae178B4a", "hashed_token": "25f94a2a5c7fbaf499c665bc73d67c1c87e496da8985131633ee0a95819db2e8", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "note": "optional note", "note_url": "http://optional/note/url", "updated_at": "2011-09-06T20:39:23Z", "created_at": "2011-09-06T17:26:27Z", "expires_at": "2011-10-06T17:26:27Z", "fingerprint": "jklmnop12345678" }
```

Get-or-create an authorization for a specific app

Deprecation Notice: GitHub Enterprise Server will discontinue the [OAuth Authorizations API](#), which is used by integrations to create personal access tokens and OAuth tokens, and you must now create these tokens using our [web application flow](#). The [OAuth Authorizations API](#) will be removed on November, 13, 2020. For more information, including scheduled brownouts, see the [blog post](#).

Warning: Apps must use the [web application flow](#) to obtain OAuth tokens that work with GitHub Enterprise Server SAML organizations. OAuth tokens created using the Authorizations API will be unable to access GitHub Enterprise Server SAML organizations. For more information, see the [blog post](#).

Creates a new authorization for the specified OAuth application, only if an authorization for that application doesn't already exist for the user. The URL includes the 20 character client ID for the OAuth app that is requesting the token. It returns the user's existing authorization for the application if one is present. Otherwise, it creates and returns a new one.

If you have two-factor authentication setup, Basic Authentication for this endpoint requires that you use a one-time password (OTP) and your username and password instead of tokens. For more information, see "[Working with two-factor authentication](#)."

Deprecation Notice: GitHub Enterprise Server will discontinue the [OAuth Authorizations API](#), which is used by integrations to create personal access tokens and OAuth tokens, and you must now create these tokens using our [web application flow](#). The [OAuth Authorizations API](#) will be removed on November, 13, 2020. For more information, including scheduled brownouts, see the [blog post](#).

Parameters for "Get-or-create an authorization for a specific app"

Headers

accept

 string

Setting to `application/vnd.github+json` is recommended.

Path parameters

client_id

 string

Required

The client ID of the OAuth app.

Body parameters

client_secret string Required

The OAuth app client secret for which to create the token.

scopes array of strings or null

A list of scopes that this authorization is in.

note string

A note to remind you what the OAuth token is for.

note_url string

A URL to remind you what app the OAuth token is for.

fingerprint string

A unique string to distinguish an authorization from others created for the same client ID and user.

HTTP response status codes for "Get-or-create an authorization for a specific app"

Status code	Description
200	if returning an existing token
201	Deprecation Notice: GitHub will discontinue the OAuth Authorizations API , which is used by integrations to create personal access tokens and OAuth tokens, and you must now create these tokens using our web application flow . The OAuth Authorizations API will be removed on November, 13, 2020. For more information, including scheduled brownouts, see the blog post .
304	Not modified
401	Requires authentication
403	Forbidden
422	Validation failed, or the endpoint has been spammed.

Code samples for "Get-or-create an authorization for a specific app"

Create an authorization for an app 1: Status Code 200 ↕

PUT

/authorizations/clients/{client_id}

cURL

JavaScript

GitHub CLI



curl -L \ -X PUT \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations/clients/abcde12345fghij67890 \ -d '{"client_secret": "3ef4ad510c59ad37bac6bb4f80047fb3aee3cc7f", "scopes": ["public_repo"], "note": "optional note", "note_url": "http://optional/note/url"}'

if returning an existing token

Example response	Response schema
Status: 200	
<pre>{ "id": 1, "url": "https://HOSTNAME/authorizations/1", "scopes": ["public_repo"], "token": "ghu_16C7e42F292c6912E7710c838347Ae178B4a", "token_last_eight": "Ae178B4a", "hashed_token": "25f94a2a5c7fbaf499c665bc73d67c1c87e496da8985131633ee0a95819db2e8", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "note": "optional note", "note_url": "http://optional/note/url", "updated_at": "2011-09-06T20:39:23Z", "created_at": "2011-09-06T17:26:27Z", "expires_at": "2011-10-06T17:26:27Z", "fingerprint": "" }</pre>	

Get-or-create an authorization for a specific app and fingerprint

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Warning: Apps must use the [web application flow](#) to obtain OAuth tokens that work with GitHub Enterprise Server SAML organizations. OAuth tokens created using the Authorizations API will be unable to access GitHub Enterprise Server SAML organizations. For more information, see the [blog post](#).

This method will create a new authorization for the specified OAuth application, only if an authorization for that application and fingerprint do not already exist for the user. The URL includes the 20 character client ID for the OAuth app that is requesting the token. `fingerprint` is a unique string to distinguish an authorization from others created for the same client ID and user. It returns the user's existing authorization for the application if one is present. Otherwise, it creates and returns a new one.

If you have two-factor authentication setup, Basic Authentication for this endpoint requires that you use a one-time password (OTP) and your username and password instead of tokens. For more information, see "[Working with two-factor authentication](#)."

Parameters for "Get-or-create an authorization for a specific app and fingerprint"

Headers

accept string
Setting to `application/vnd.github+json` is recommended.

Path parameters

client_id string **Required**
The client ID of the OAuth app.

fingerprint string **Required**

Body parameters

client_secret string **Required**
The OAuth app client secret for which to create the token.

scopes array of strings or null
A list of scopes that this authorization is in.

note string

A note to remind you what the OAuth token is for.

`note_url` string

A URL to remind you what app the OAuth token is for.

HTTP response status codes for "Get-or-create an authorization for a specific app and fingerprint"

Status code	Description
200	if returning an existing token
201	Response if returning a new token
422	Validation failed, or the endpoint has been spammed.

Code samples for "Get-or-create an authorization for a specific app and fingerprint"

Create an authorization for an app and fingerprint 1: Status Code 200 ↕

PUT

/authorizations/clients/{client_id}/{fingerprint}

cURL

JavaScript

GitHub CLI

```
curl -L \ -X PUT \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations/clients/abcde12345fghij67890/FINGERPRINT \ -d '{"client_secret":"3ef4ad510c59ad37bac6bb4f80047fb3aee3cc7f","scopes":["public_repo"],"note":"optional note","note_url":"http://optional/note/url"}'
```

if returning an existing token

Example response

Response schema

Status: 200

```
{ "id": 1, "url": "https://HOSTNAME/authorizations/1", "scopes": [ "public_repo" ], "token": "ghu_16C7e42F292c6912E7710c838347Ae178B4a", "token_last_eight": "Ae178B4a", "hashed_token": "25f94a2a5c7fbaf499c665bc73d67c1c87e496da8985131633ee0a95819db2e8", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "note": "optional note", "note_url": "http://optional/note/url", "updated_at": "2011-09-06T20:39:23Z", "created_at": "2011-09-06T17:26:27Z", "expires_at": "2011-10-06T17:26:27Z", "fingerprint": "jklmnop12345678" }
```

Get a single authorization 🔑

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Parameters for "Get a single authorization"

Headers

`accept` string

Setting to `application/vnd.github+json` is recommended.

Path parameters

authorization_id integer Required

The unique identifier of the authorization.

HTTP response status codes for "Get a single authorization"

Status code	Description
200	OK
304	Not modified
401	Requires authentication
403	Forbidden

Code samples for "Get a single authorization"

GET

/authorizations/{authorization_id}

cURL

JavaScript

GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations/AUTHORIZATION_ID
```

Response

Example response

Response schema

Status: 200

```
{ "id": 1, "url": "https://HOSTNAME/authorizations/1", "scopes": [ "public_repo" ], "token": "ghu_16C7e42F292c6912E7710c838347Ae178B4a", "token_last_eight": "Ae178B4a", "hashed_token": "25f94a2a5c7fbaf499c665bc73d67c1c87e496da8985131633ee0a95819db2e8", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "note": "optional note", "note_url": "http://optional/note/url", "updated_at": "2011-09-06T20:39:23Z", "created_at": "2011-09-06T17:26:27Z", "expires_at": "2011-10-06T17:26:27Z", "fingerprint": "jklmnop12345678" }
```

Update an existing authorization

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If you have two-factor authentication setup, Basic Authentication for this endpoint requires that you use a one-time password (OTP) and your username and password instead of tokens. For more information, see "[Working with two-factor authentication](#)."

You can only send one of these scope keys at a time.

Parameters for "Update an existing authorization"

Headers

accept string
Setting to application/vnd.github+json is recommended.

Path parameters

authorization_id integer Required
The unique identifier of the authorization.

Body parameters

scopes array of strings or null
A list of scopes that this authorization is in.

add_scopes array of strings
A list of scopes to add to this authorization.

remove_scopes array of strings
A list of scopes to remove from this authorization.

note string
A note to remind you what the OAuth token is for.

note_url string
A URL to remind you what app the OAuth token is for.

fingerprint string
A unique string to distinguish an authorization from others created for the same client ID and user.

HTTP response status codes for "Update an existing authorization"

Status code	Description
200	OK
422	Validation failed, or the endpoint has been spammed.

Code samples for "Update an existing authorization"

PATCH

/authorizations/{authorization_id}

cURL

JavaScript

GitHub CLI

```
curl -L \ -X PATCH \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations/AUTHORIZATION_ID \ -d '{"add_scopes":["public_repo"],"remove_scopes":["user"],"note":"optional note"}'
```

Response

Example response	Response schema
Status: 200	
{ "id": 1, "url": "https://HOSTNAME/authorizations/1", "scopes": ["public_repo"], "token": "ghu_16C7e42F292c6912E7710c838347Ae178B4a", "token_last_eight": "Ae178B4a", "hashed_token": "25f94a2a5c7fbaf499c665bc73d67c1c87e496da8985131633ee0a95819db2e8", "app": { "url": "http://my-github-app.com", "name": "my github app", "client_id": "abcde12345fghij67890" }, "note": "optional note", "note_url": "http://optional/note/url", "updated_at": "2011-09-06T20:39:23Z", "created_at": "2011-09-06T17:26:27Z", "expires_at": "2011-10-06T17:26:27Z", "fingerprint": "jklmnop12345678" }	

Delete an authorization

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Parameters for "Delete an authorization"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

authorization_id integer **Required**

The unique identifier of the authorization.


HTTP response status codes for "Delete an authorization"

Status code	Description
204	No Content
304	Not modified
401	Requires authentication
403	Forbidden

Code samples for "Delete an authorization"

DELETE /authorizations/{authorization_id}

cURLJavaScriptGitHub CLI



```
curl -L \ -X DELETE \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/authorizations/AUTHORIZATION_ID
```

Response

Legal