Collaborators

Use the REST API to manage collaborators for a repository.

List repository collaborators 🔗

✅ Works with GitHub Apps

For organization-owned repositories, the list of collaborators includes outside collaborators, organization members that are direct collaborators, organization members with access through team memberships, organization members with access through default organization permissions, and organization owners. Organization members with write, maintain, or admin privileges on the organization-owned repository can use this endpoint.

Team members will include the members of child teams.

You must authenticate using an access token with the `read:org` and `repo` scopes with push access to use this endpoint. GitHub Apps must have the `members` organization permission and `metadata` repository permission to use this endpoint.

Parameters for "List repository collaborators"

Headers

accept string

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

Path parameters

owner string   Required

The account owner of the repository. The name is not case sensitive.

repo string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

Query parameters

affiliation string

Filter collaborators returned by their affiliation. `outside` means all outside collaborators of an organization-owned repository. `direct` means all collaborators with permissions to an organization-owned repository, regardless of organization membership status. `all` means all collaborators the authenticated user can see.

Default: `all`
Can be one of: `outside` , `direct` , `all`

permission string

Filter collaborators by the permissions they have on the repository. If not specified, all collaborators will be returned.

Can be one of: `pull` , `triage` , `push` , `maintain` , `admin`

per_page integer

The number of results per page (max 100).

Default: `30`

page integer

Page number of the results to fetch.

Default: `1`

HTTP response status codes for "List repository collaborators"

Status code	Description
`200`	OK
`404`	Resource not found

Code samples for "List repository collaborators"

```
GET  /repos/{owner}/{repo}/collaborators
```

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"
\ https://api.github.com/repos/OWNER/REPO/collaborators
```

Response

Example response   Response schema

Status: 200

```
[ { "login": "octocat", "id": 1, "node_id": "MDQ6VXNlcjE=", "avatar_url": "https://github.com/images/error/octocat_happy.gif",
"gravatar_id": "", "url": "https://api.github.com/users/octocat", "html_url": "https://github.com/octocat", "followers_url":
"https://api.github.com/users/octocat/followers", "following_url": "https://api.github.com/users/octocat/following{/other_user}",
"gists_url": "https://api.github.com/users/octocat/gists{/gist_id}", "starred_url":
"https://api.github.com/users/octocat/starred{/owner}{/repo}", "subscriptions_url":
"https://api.github.com/users/octocat/subscriptions", "organizations_url": "https://api.github.com/users/octocat/orgs",
```

Check if a user is a repository collaborator 🔗

✔ Works with [GitHub Apps](#)

For organization-owned repositories, the list of collaborators includes outside collaborators, organization members that are direct collaborators, organization members with access through team memberships, organization members with access through default organization permissions, and organization owners.

Team members will include the members of child teams.

You must authenticate using an access token with the `read:org` and `repo` scopes with push access to use this endpoint. GitHub Apps must have the `members` organization permission and `metadata` repository permission to use this endpoint.

Parameters for "Check if a user is a repository collaborator"

Headers

`accept` string	

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

Path parameters

`owner` string	Required

The account owner of the repository. The name is not case sensitive.

`repo` string	Required

The name of the repository without the `.git` extension. The name is not case sensitive.

`username` string	Required

The handle for the GitHub user account.

HTTP response status codes for "Check if a user is a repository collaborator"

Status code	Description
204	Response if user is a collaborator
404	Not Found if user is not a collaborator

Code samples for "Check if a user is a repository collaborator"

GET `/repos/{owner}/{repo}/collaborators/{username}`

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"
\ https://api.github.com/repos/OWNER/REPO/collaborators/USERNAME
```

Response if user is a collaborator

```
Status: 204
```

Add a repository collaborator 🔗

✅ Works with [GitHub Apps](#)

This endpoint triggers [notifications](). Creating content too quickly using this endpoint may result in secondary rate limiting. See "[Secondary rate limits]()" and "[Dealing with secondary rate limits]()" for details.

Adding an outside collaborator may be restricted by enterprise administrators. For more information, see "[Enforcing repository management policies in your enterprise]()."

For more information on permission levels, see "[Repository permission levels for an organization]()". There are restrictions on which permissions can be granted to organization members when an organization base role is in place. In this case, the permission being given must be equal to or higher than the org base permission. Otherwise, the request will fail with:

```
Cannot assign {member} permission of {role name}
```

Note that, if you choose not to pass any parameters, you'll need to set `Content-Length` to zero when calling out to this endpoint. For more information, see "[HTTP verbs]()."

The invitee will receive a notification that they have been invited to the repository, which they must accept or decline. They may do this via the notifications page, the email they receive, or by using the [API]().

Updating an existing collaborator's permission level

The endpoint can also be used to change the permissions of an existing collaborator without first removing and re-adding the collaborator. To change the permissions, use the same endpoint and pass a different `permission` parameter. The response will be a `204`, with no other indication that the permission level changed.

Rate limits

You are limited to sending 50 invitations to a repository per 24 hour period. Note there is no limit if you are inviting organization members to an organization repository.

Parameters for "Add a repository collaborator"

Headers

accept   string

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

Path parameters

owner   string   Required

The account owner of the repository. The name is not case sensitive.

repo   string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

username   string   Required

The handle for the GitHub user account.

Body parameters

permission   string

The permission to grant the collaborator. **Only valid on organization-owned repositories.** We accept the following permissions to be set: `pull`, `triage`, `push`, `maintain`, `admin` and you can also specify a custom repository role name, if the owning organization has defined any.

Default: `push`

HTTP response status codes for "Add a repository collaborator"

Status code	Description
201	Response when a new invitation is created
204	Response when: • an existing collaborator is added as a collaborator • an organization member is added as an individual collaborator • an existing team member (whose team is also a repository collaborator) is added as an individual collaborator
403	Forbidden
422	Validation failed, or the endpoint has been spammed.

Code samples for "Add a repository collaborator"

`PUT` `/repos/{owner}/{repo}/collaborators/{username}`

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" \ https://api.github.com/repos/OWNER/REPO/collaborators/USERNAME \ -d '{"permission":"triage"}'
```

Response when a new invitation is created

Example response   Response schema

Status: 201

```
{ "id": 1, "node_id": "MDEwOlJlcG9zaXRvcnkxMjk2MjY5", "repository": { "id": 1296269, "node_id": "MDEwOlJlcG9zaXRvcnkxMjk2MjY5",
"name": "Hello-World", "full_name": "octocat/Hello-World", "owner": { "login": "octocat", "id": 1, "node_id": "MDQ6VXNlcjE=",
"avatar_url": "https://github.com/images/error/octocat_happy.gif", "gravatar_id": "", "url":
"https://api.github.com/users/octocat", "html_url": "https://github.com/octocat", "followers_url":
"https://api.github.com/users/octocat/followers", "following_url": "https://api.github.com/users/octocat/following{/other_user}",
"gists_url": "https://api.github.com/users/octocat/gists{/gist_id}", "starred_url":
```

Remove a repository collaborator 🔗

✅ Works with [GitHub Apps](#)

Removes a collaborator from a repository.

To use this endpoint, the authenticated user must either be an administrator of the repository or target themselves for removal.

This endpoint also:

- Cancels any outstanding invitations
- Unasigns the user from any issues
- Removes access to organization projects if the user is not an organization member and is not a collaborator on any

other organization repositories.

- Unstars the repository
- Updates access permissions to packages

Removing a user as a collaborator has the following effects on forks:

- If the user had access to a fork through their membership to this repository, the user will also be removed from the fork.
- If the user had their own fork of the repository, the fork will be deleted.
- If the user still has read access to the repository, open pull requests by this user from a fork will be denied.

Note: A user can still have access to the repository through organization permissions like base repository permissions.

Although the API responds immediately, the additional permission updates might take some extra time to complete in the background.

For more information on fork permissions, see "[About permissions and visibility of forks](#)".

Parameters for "Remove a repository collaborator"

Headers

`accept` string

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

Path parameters

`owner` string Required

The account owner of the repository. The name is not case sensitive.

`repo` string Required

The name of the repository without the `.git` extension. The name is not case sensitive.

`username` string Required

The handle for the GitHub user account.

HTTP response status codes for "Remove a repository collaborator"

Status code	Description
204	No Content when collaborator was removed from the repository.
403	Forbidden
422	Validation failed, or the endpoint has been spammed.

Code samples for "Remove a repository collaborator"

DELETE /repos/{owner}/{repo}/collaborators/{username}

cURL   JavaScript   GitHub CLI

```
curl -L \ -X DELETE \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/collaborators/USERNAME
```

No Content when collaborator was removed from the repository.

```
Status: 204
```

Get repository permissions for a user 🔗

✓ Works with [GitHub Apps](#)

Checks the repository permission of a collaborator. The possible repository permissions are `admin`, `write`, `read`, and `none`.

Note: The `permission` attribute provides the legacy base roles of `admin`, `write`, `read`, and `none`, where the `maintain` role is mapped to `write` and the `triage` role is mapped to `read`. To determine the role assigned to the collaborator, see the `role_name` attribute, which will provide the full role name, including custom roles. The `permissions` hash can also be used to determine which base level of access the collaborator has to the repository.

Parameters for "Get repository permissions for a user"

Headers

`accept` string

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

Path parameters

`owner` string   Required

The account owner of the repository. The name is not case sensitive.

`repo` string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

`username` string   Required

The handle for the GitHub user account.

HTTP response status codes for "Get repository permissions for a user"

Status code	Description
200	if user has admin permissions
404	Resource not found

Code samples for "Get repository permissions for a user"

```
GET /repos/{owner}/{repo}/collaborators/{username}/permission
```

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"
\ https://api.github.com/repos/OWNER/REPO/collaborators/USERNAME/permission
```

if user has admin permissions

Example response   Response schema

Status: 200

```
{ "permission": "admin", "role_name": "admin", "user": { "login": "octocat", "id": 1, "node_id": "MDQ6VXNlcjE=", "avatar_url":
"https://github.com/images/error/octocat_happy.gif", "gravatar_id": "", "url": "https://api.github.com/users/octocat", "html_url":
"https://github.com/octocat", "followers_url": "https://api.github.com/users/octocat/followers", "following_url":
"https://api.github.com/users/octocat/following{/other_user}", "gists_url": "https://api.github.com/users/octocat/gists{/gist_id}",
"starred_url": "https://api.github.com/users/octocat/starred{/owner}{/repo}", "subscriptions_url":
"https://api.github.com/users/octocat/subscriptions", "organizations_url": "https://api.github.com/users/octocat/orgs",
```

Legal

```
{ "permission": "admin", "role_name": "admin", "user": { "login": "octocat", "id": 1, "node_id": "MDQ6VXNlcjE=", "avatar_url":
"https://github.com/images/error/octocat_happy.gif", "gravatar_id": "", "url": "https://api.github.com/users/octocat", "html_url":
"https://github.com/octocat", "followers_url": "https://api.github.com/users/octocat/followers", "following_url":
"https://api.github.com/users/octocat/following{/other_user}", "gists_url": "https://api.github.com/users/octocat/gists{/gist_id}",
"starred_url": "https://api.github.com/users/octocat/starred{/owner}{/repo}", "subscriptions_url":
"https://api.github.com/users/octocat/subscriptions", "organizations_url": "https://api.github.com/users/octocat/orgs",
```