

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

Custom Repository Roles

Use the REST API to interact with custom repository roles.

Deprecated - List custom repository roles in an organization

✔ Works with [GitHub Apps](#)

Note: This operation is deprecated and will be removed in the future. Use the "[List custom repository roles](#)" endpoint instead.

List the custom repository roles available in this organization. In order to see custom repository roles in an organization, the authenticated user must be an organization owner.

To use this endpoint the authenticated user must be an administrator of the organization or of a repository of the organization and must use an access token with the `admin:org` or `repo` scope. GitHub Apps must have the `organization_custom_roles:read` or `organization_administration:read` organization permission to use this endpoint.

For more information on custom repository roles, see "[About custom repository roles](#)."

Parameters for "Deprecated - List custom repository roles in an organization"

Headers

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

Path parameters

organization_id string **Required**
The unique identifier of the organization.

HTTP response status codes for "Deprecated - List custom repository roles in an organization"

Status code	Description
200	Response - list of custom role names


Code samples for "Deprecated - List custom repository roles in an organization"

GET /organizations/{organization_id}/custom_roles

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/organizations/ORGANIZATION_ID/custom_roles

Response - list of custom role names

Example response

Response schema

Status: 200

```
{ "id": 8030, "name": "Security Engineer", "description": "Able to contribute code and maintain the security pipeline",
"base_role": "maintain", "permissions": [ "delete_alerts_code_scanning" ], "organization": { "login": "github", "id": 1, "node_id":
"MDEyOk9yZ2FuaXphdGlvbGJlbnE=", "url": "https://HOSTNAME/orgs/github", "repos_url": "https://HOSTNAME/orgs/github/repos", "events_url":
"https://HOSTNAME/orgs/github/events", "hooks_url": "https://HOSTNAME/orgs/github/hooks", "issues_url":
"https://HOSTNAME/orgs/github/issues", "members_url": "https://HOSTNAME/orgs/github/members{/member}", "public_members_url":
"https://HOSTNAME/orgs/github/public_members{/member}", "avatar_url": "https://github.com/images/error/octocat_happy.gif",
```

List custom repository roles in an organization

Works with [GitHub Apps](#)

List the custom repository roles available in this organization. In order to see custom repository roles in an organization, the authenticated user must be an organization owner.

To use this endpoint the authenticated user must be an administrator of the organization or of a repository of the organization and must use an access token with the `admin:org` or `repo` scope. GitHub Apps must have the `organization_custom_roles:read` or `organization_administration:read` organization permission to use this endpoint.

For more information on custom repository roles, see "[About custom repository roles](#)."

Parameters for "List custom repository roles in an organization"

Headers

accept

string

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

Path parameters

org

string

Required

The organization name. The name is not case sensitive.

HTTP response status codes for "List custom repository roles in an organization"

Status code	Description
200	Response - list of custom role names

Code samples for "List custom repository roles in an organization"

GET

/orgs/{org}/custom-repository-roles

cURLJavaScriptGitHub 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/orgs/ORG/custom-repository-roles
```

Response - list of custom role names

Example responseResponse schema

Status: 200

```
{ "total_count": 2, "custom_roles": [ { "id": 8030, "name": "Security Engineer", "description": "Able to contribute code and maintain the security pipeline", "base_role": "maintain", "permissions": [ "delete_alerts_code_scanning" ], "organization": { "login": "github", "id": 9919, "node_id": "MDEy0k9yZ2FuaXphdGlvbjk5MTk=", "avatar_url": "https://avatars.githubusercontent.com/u/9919?v=4", "gravatar_id": "", "url": "https://HOSTNAME/users/github", "html_url": "https://github.com/github", "followers_url": "https://HOSTNAME/users/github/followers", "following_url": "https://HOSTNAME/users/github/following{/other_user}", "gists_url": "https://HOSTNAME/users/github/gists{/gist_id}",
```

Create a custom repository role

✔ Works with [GitHub Apps](#)

Creates a custom repository role that can be used by all repositories owned by the organization.

To use this endpoint, the authenticated user must be an administrator for the organization and must use a personal access token (classic) with `admin:org` scope or a fine-grained personal access token with the `organization_custom_roles:write` organization permission.

For more information on custom repository roles, see "[About custom repository roles](#)."

Parameters for "Create a custom repository role"

Headers

accept

string

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

Path parameters

org

string

Required

The organization name. The name is not case sensitive.

Body parameters

name

string

Required

The name of the custom role.

description

string or null

A short description about who this role is for or what permissions it grants.

base_role string **Required**

The system role from which this role inherits permissions.

Can be one of: `read`, `triage`, `write`, `maintain`

permissions array of strings **Required**

A list of additional permissions included in this role.

HTTP response status codes for "Create a custom repository role"

Status code

Description

201

Created

404

Resource not found

422

Validation failed, or the endpoint has been spammed.

Code samples for "Create a custom repository role"

POST /orgs/{org}/custom-repository-roles

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/orgs/ORG/custom-repository-roles \ -d '{"name":"Labeler","description":"A role for issue and pull request labelers","base_role":"read","permissions":["add_label"]}'
```

Response

Example response

Response schema

Status: 201

```
{ "id": 8030, "name": "Security Engineer", "description": "Able to contribute code and maintain the security pipeline", "base_role": "maintain", "permissions": [ "delete_alerts_code_scanning" ], "organization": { "login": "github", "id": 1, "node_id": "MDEyOk9yZ2FuaXphdGlvbGJE=", "url": "https://HOSTNAME/orgs/github", "repos_url": "https://HOSTNAME/orgs/github/repos", "events_url": "https://HOSTNAME/orgs/github/events", "hooks_url": "https://HOSTNAME/orgs/github/hooks", "issues_url": "https://HOSTNAME/orgs/github/issues", "members_url": "https://HOSTNAME/orgs/github/members{/member}", "public_members_url": "https://HOSTNAME/orgs/github/public_members{/member}", "avatar_url": "https://github.com/images/error/octocat_happy.gif",
```

Get a custom repository role

✔ Works with [GitHub Apps](#)

Gets a custom repository role that is available to all repositories owned by the organization.

To use this endpoint the authenticated user must be an administrator of the organization or of a repository of the organization and must use an access token with the `admin:org` or `repo` scope. GitHub Apps must have the `organization_custom_roles:read` or `organization_administration:read` organization permission to use this endpoint.

For more information on custom repository roles, see "[About custom repository roles](#)."

Parameters for "Get a custom repository role"

Headers

accept string

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

Path parameters

org string **Required**

The organization name. The name is not case sensitive.

role_id integer **Required**

The unique identifier of the role.

HTTP response status codes for "Get a custom repository role"

Status code	Description
200	OK
404	Resource not found

Code samples for "Get a custom repository role"

GET /orgs/{org}/custom-repository-roles/{role_id}

cURLJavaScriptGitHub 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/orgs/ORG/custom-repository-roles/ROLE_ID
```

Response

Example responseResponse schema

Status: 200

```
{ "id": 8030, "name": "Security Engineer", "description": "Able to contribute code and maintain the security pipeline", "base_role": "maintain", "permissions": [ "delete_alerts_code_scanning" ], "organization": { "login": "github", "id": 1, "node_id": "MDEyOk9yZ2FuaXphdGlvbjE=", "url": "https://HOSTNAME/orgs/github", "repos_url": "https://HOSTNAME/orgs/github/repos", "events_url": "https://HOSTNAME/orgs/github/events", "hooks_url": "https://HOSTNAME/orgs/github/hooks", "issues_url": "https://HOSTNAME/orgs/github/issues", "members_url": "https://HOSTNAME/orgs/github/members{/member}", "public_members_url": "https://HOSTNAME/orgs/github/public_members{/member}", "avatar_url": "https://github.com/images/error/octocat_happy.gif",
```

Update a custom repository role

Updates a custom repository role that can be used by all repositories owned by the organization.

To use this endpoint the authenticated user must be an administrator for the organization and must use an access token with `admin:org` scope. GitHub Apps must have the `organization_custom_roles:write` organization permission to use this endpoint.

For more information about custom repository roles, see "[About custom repository roles](#)."

Parameters for "Update a custom repository role"

Headers

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

Path parameters

org string **Required**
The organization name. The name is not case sensitive.

role_id integer **Required**
The unique identifier of the role.

Body parameters

name string
The name of the custom role.

description string or null
A short description about who this role is for or what permissions it grants.

base_role string
The system role from which this role inherits permissions.
Can be one of: `read`, `triage`, `write`, `maintain`

permissions array of strings
A list of additional permissions included in this role.

HTTP response status codes for "Update a custom repository role"

Status code	Description
200	OK
404	Resource not found
422	Validation failed, or the endpoint has been spammed.

Code samples for "Update a custom repository role"

PATCH /orgs/{org}/custom-repository-roles/{role_id}

cURLJavaScriptGitHub 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/orgs/ORG/custom-repository-roles/ROLE_ID \ -d '{"name":"Labeler","description":"A role for issue and PR labelers","base_role":"read","permissions":["add_label","remove_label"]}'
```

Response

Example responseResponse schema

Status: 200

```
{ "id": 8030, "name": "Security Engineer", "description": "Able to contribute code and maintain the security pipeline", "base_role": "maintain", "permissions": [ "delete_alerts_code_scanning" ], "organization": { "login": "github", "id": 1, "node_id": "MDEyOk9yZ2FuaXphdGlvbjE=", "url": "https://HOSTNAME/orgs/github", "repos_url": "https://HOSTNAME/orgs/github/repos", "events_url": "https://HOSTNAME/orgs/github/events", "hooks_url": "https://HOSTNAME/orgs/github/hooks", "issues_url": "https://HOSTNAME/orgs/github/issues", "members_url": "https://HOSTNAME/orgs/github/members{/member}", "public_members_url": "https://HOSTNAME/orgs/github/public_members{/member}", "avatar_url": "https://github.com/images/error/octocat_happy.gif",
```

Delete a custom repository role

✔ Works with [GitHub Apps](#)

Deletes a custom role from an organization. Once the custom role has been deleted, any user, team, or invitation with the deleted custom role will be reassigned the inherited role.

To use this endpoint the authenticated user must be an administrator for the organization and must use an access token with `admin:org` scope. GitHub Apps must have the `organization_custom_roles:write` organization permission to use this endpoint.

For more information about custom repository roles, see "[About custom repository roles](#)."

Parameters for "Delete a custom repository role"

Headers

acceptstring

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

Path parameters

orgstringRequired

The organization name. The name is not case sensitive.

role_idintegerRequired

The unique identifier of the role.

HTTP response status codes for "Delete a custom repository role"

Status code	Description

Code samples for "Delete a custom repository role"

DELETE

/orgs/{org}/custom-repository-roles/{role_id}

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" \ http(s)://HOSTNAME/api/v3/orgs/ORG/custom-repository-roles/ROLE_ID
```

Response

Status: 204

List repository fine-grained permissions for an organization

Works with [GitHub Apps](#)

Lists the fine-grained permissions that can be used in custom repository roles for an organization. For more information, see "[About custom repository roles](#)."

To use this endpoint the authenticated user must be an administrator of the organization or of a repository of the organization and must use an access token with the `admin:org` or `repo` scope. GitHub Apps must have the `organization_custom_roles:read` or `organization_administration:read` organization permission to use this endpoint.

Parameters for "List repository fine-grained permissions for an organization"

Headers

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

Path parameters

`org` string **Required**
The organization name. The name is not case sensitive.

HTTP response status codes for "List repository fine-grained permissions for an organization"

Status code	Description
200	OK

Code samples for "List repository fine-grained permissions for an organization"

GET

/orgs/{org}/repository-fine-grained-permissions



```
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/orgs/ORG/repository-fine-grained-permissions
```

Response

Example response

Response schema

Status: 200

```
[ { "name": "add_assignee", "description": "Assign or remove a user" }, { "name": "remove_assignee", "description": "Remove an assigned user" }, { "name": "add_label", "description": "Add or remove a label" } ]
```

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