GitHub Docs





The REST API is now versioned. For more information, see "About API versioning."

# GitHub Actions Variables

Use the REST API to interact with variables in GitHub Actions.

# About variables in GitHub Actions @

You can use the REST API to create, update, delete, and retrieve information about variables that can be used in workflows in GitHub Actions. Variables allow you to store non-sensitive information, such as a username, in your repository, repository environments, or organization. For more information, see "Variables" in the GitHub Actions documentation.

# List organization variables @

Works with GitHub Apps

Lists all organization variables. You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization actions variables: read organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "List organization variables"

#### **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.

#### **Query parameters**

per\_page integer

The number of results per page (max 30).

Default: 10

page integer

Page number of the results to fetch.

Default: 1

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#### HTTP response status codes for "List organization variables"

Status code	Description
200	OK

#### Code samples for "List organization variables"



# Response

```
Example response Response schema

Status: 200

{ "total_count": 3, "variables": [ { "name": "USERNAME", "value": "octocat", "created_at": "2019-08-10T14:59:22Z", "updated_at": "2020-01-10T14:59:22Z", "visibility": "private" }, { "name": "ACTIONS_RUNNER_DEBUG", "value": true, "created_at": "2019-08-10T14:59:22Z", "updated_at": "2020-01-10T14:59:22Z", "visibility": "all" }, { "name": "ADMIN_EMAIL", "value": "octocat@github.com", "created_at": "2019-08-10T14:59:22Z", "updated_at": "2020-01-10T14:59:22Z", "visibility": "selected", "selected_repositories_url": "https://api.github.com/orgs/octo-org/actions/variables/ADMIN_EMAIL/repositories" } ] }
```

# Create an organization variable &

Works with <u>GitHub Apps</u>

Creates an organization variable that you can reference in a GitHub Actions workflow.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables:write organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Create an organization variable"

#### **Headers**

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

# Path parameters

The organization name. The name is not case sensitive.

#### **Body parameters**

name string Required

The name of the variable.

value string Required

The value of the variable.

visibility string Required

The type of repositories in the organization that can access the variable. selected means only the repositories specified by selected\_repository\_ids can access the variable.

Can be one of: all, private, selected

selected\_repository\_ids array of integers

An array of repository ids that can access the organization variable. You can only provide a list of repository ids when the visibility is set to selected.

# HTTP response status codes for "Create an organization variable"

Status code Description

201 Response when creating a variable

# Code samples for "Create an organization variable"

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" \ https://api.github.com/orgs/ORG/actions/variables \ -d

'{"name":"USERNAME", "value":"octocat", "visibility": "selected\_repository\_ids":[1296269,1296280]}'

# Response when creating a variable

Example response Response schema

Status: 201

# Get an organization variable &

Works with <u>GitHub Apps</u>

Gets a specific variable in an organization.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is

private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables: read organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Get an organization variable"

#### **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.

name string Required

The name of the variable.

# HTTP response status codes for "Get an organization variable"

Status code Description

200 OK

# Code samples for "Get an organization variable"

GET /orgs/{org}/actions/variables/{name}

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"

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\ https://api.github.com/orgs/ORG/actions/variables/NAME

# Response

Example response Response schema

Status: 200

{ "name": "USERNAME", "value": "octocat", "created\_at": "2019-08-10T14:59:22Z", "updated\_at": "2020-01-10T14:59:22Z", "visibility": "selected", "selected\_repositories\_url": "https://api.github.com/orgs/octo-org/actions/variables/USERNAME/repositories" }

# Update an organization variable &

Works with <u>GitHub Apps</u>

Updates an organization variable that you can reference in a GitHub Actions workflow.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables:write organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Update an organization variable"

#### **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.

name string Required

The name of the variable.

#### **Body parameters**

name string

The name of the variable.

value string

The value of the variable.

#### visibility string

The type of repositories in the organization that can access the variable. selected means only the repositories specified by selected\_repository\_ids can access the variable.

Can be one of: all, private, selected

selected\_repository\_ids array of integers

An array of repository ids that can access the organization variable. You can only provide a list of repository ids when the visibility is set to selected.

#### HTTP response status codes for "Update an organization variable"

Status code Description

204 No Content

# Code samples for "Update an organization variable"

PATCH /orgs/{org}/actions/variables/{name}

cURL JavaScript GitHub CLI

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curl -L \ -X PAICH \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-IOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/orgs/ORG/actions/variables/NAME \ -d
'{"name":"USERNAME","value":"octocat","visibility":"selected","selected\_repository\_ids":[1296269,1296280]}'

#### Response

Status: 204

# Delete an organization variable @

Works with <u>GitHub Apps</u>

Deletes an organization variable using the variable name.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables:write organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "Delete an organization variable"

#### **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.

name string Required

The name of the variable.

# HTTP response status codes for "Delete an organization variable"

Status code Description

No Content

# Code samples for "Delete an organization variable"



2022-11-28" \ https://api.github.com/orgs/ORG/actions/variables/NAME

#### Response

Status: 204

# List selected repositories for an organization variable &

Works with <u>GitHub Apps</u>

Lists all repositories that can access an organization variable that is available to selected repositories.

You must authenticate using an access token with the <code>admin:org</code> scope to use this endpoint. If the repository is private, you must use an access token with the <code>repo</code> scope. GitHub Apps must have the <code>organization\_actions\_variables:read</code> organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "List selected repositories for an organization variable"

#### **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.

name string Required

The name of the variable.

# **Query parameters**

page integer

Page number of the results to fetch.

Default: 1

per\_page integer

The number of results per page (max 100).

Default: 30

HTTP response status codes for "List selected repositories for an organization variable"

Status code	Description
200	ОК
409	Response when the visibility of the variable is not set to selected

# Code samples for "List selected repositories for an organization variable"



#### Response

# Set selected repositories for an organization variable $\mathscr {E}$

#### Works with GitHub Apps

Replaces all repositories for an organization variable that is available to selected repositories. Organization variables that are available to selected repositories have their visibility field set to selected.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables:write organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Set selected repositories for an organization variable"

#### 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

The organization name. The name is not case sensitive.

name string Required

The name of the variable.

#### **Body parameters**

selected\_repository\_ids array of integers Required

The IDs of the repositories that can access the organization variable.

# HTTP response status codes for "Set selected repositories for an organization variable"

Status code	Description
204	No Content
409	Response when the visibility of the variable is not set to selected

#### Code samples for "Set selected repositories for an organization variable"



# Response

Status: 204

# Add selected repository to an organization variable &

Works with <u>GitHub Apps</u>

Adds a repository to an organization variable that is available to selected repositories. Organization variables that are available to selected repositories have their visibility field set to selected.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables:write organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "Add selected repository to an organization variable"

#### Headers

accept string

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

#### Path parameters

repository\_id integer Required

org string Required

The organization name. The name is not case sensitive.

name string Required

The name of the variable.

#### HTTP response status codes for "Add selected repository to an organization variable"

Status code	Description
204	No Content
409	Response when the visibility of the variable is not set to selected

# Code samples for "Add selected repository to an organization variable"



# Response

Status: 204

# Remove selected repository from an organization variable @

# Works with <u>GitHub Apps</u>

Removes a repository from an organization variable that is available to selected repositories. Organization variables that are available to selected repositories have their visibility field set to selected.

You must authenticate using an access token with the admin:org scope to use this endpoint. If the repository is private, you must use an access token with the repo scope. GitHub Apps must have the organization\_actions\_variables:write organization permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "Remove selected repository from an organization variable"

#### **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.

name string Required

The name of the variable.

repository id integer Required

# HTTP response status codes for "Remove selected repository from an organization variable"

Status code	Description
204	No Content
409	Response when the visibility of the variable is not set to selected

# Code samples for "Remove selected repository from an organization variable"

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/orgs/ORG/actions/variables/NAME/repositories/REPOSITORY\_ID

#### Response

Status: 204

# List repository organization variables &

Works with GitHub Apps

Lists all organiation variables shared with a repository.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the actions\_variables: read repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "List repository organization variables"

#### **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**

per\_page integer

The number of results per page (max 30).

Default: 10

page integer

Page number of the results to fetch.

Default: 1

# HTTP response status codes for "List repository organization variables"

Status code Description

200 OK

#### Code samples for "List repository organization variables"

GET /repos/{owner}/{repo}/actions/organization-variables

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"

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curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YUUR-TUKEN>" \ -H "X-GitHub-Api-Version: 2022-11-28" \ https://api.github.com/repos/OWNER/REPO/actions/organization-variables

# Response

Example response Response schema

Status: 200

{ "total\_count": 2, "variables": [ { "name": "USERNAME", "value": "octocat", "created\_at": "2019-08-10T14:59:22Z", "updated\_at": "2020-01-10T14:59:22Z" }, { "name": "EMAIL", "value": "octocat@github.com", "created\_at": "2020-01-10T10:59:22Z", "updated\_at": "2020-01-11T11:59:22Z" } ] }

# List repository variables &

# Works with <u>GitHub Apps</u>

Lists all repository variables. You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the actions\_variables:read repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "List repository variables"

#### **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**

per\_page integer

The number of results per page (max 30).

Default: 10

page integer

Page number of the results to fetch.

Default: 1

# HTTP response status codes for "List repository variables"

Status code	Description
200	OK

# Code samples for "List repository variables"



#### Response

```
Example response Response schema

Status: 200

{ "total_count": 2, "variables": [ { "name": "USERNAME", "value": "octocat", "created_at": "2019-08-10T14:59:22Z", "updated_at": "2020-01-10T14:59:22Z" }, { "name": "EMAIL", "value": "octocat@github.com", "created_at": "2020-01-10T10:59:22Z", "updated_at": "2020-01-11T11:59:22Z" } ] }
```

# Create a repository variable @

Works with <u>GitHub Apps</u>

Creates a repository variable that you can reference in a GitHub Actions workflow.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the actions\_variables:write repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Create a repository variable"

# 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 <code>.git</code> extension. The name is not case sensitive.

# **Body parameters**

name string Required

The name of the variable.

value string Required

The value of the variable.

# HTTP response status codes for "Create a repository variable"

Status code Description

201 Created

# Code samples for "Create a repository variable"



#### Response

Example response Response schema
Status: 201

# Get a repository variable @

Works with <u>GitHub Apps</u>

Gets a specific variable in a repository.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the actions\_variables: read repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "Get a repository variable"

#### 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.

name string Required

The name of the variable.

#### HTTP response status codes for "Get a repository variable"

Status code Description

200 OK

# Code samples for "Get a repository variable"



# Response

```
Example response Response schema

Status: 200

{ "name": "USERNAME", "value": "octocat", "created_at": "2021-08-10T14:59:22Z", "updated_at": "2022-01-10T14:59:22Z" }
```

# Update a repository variable @

#### Works with GitHub Apps

Updates a repository variable that you can reference in a GitHub Actions workflow.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the actions\_variables:write repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Update a repository variable"

#### **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.

name string Required

The name of the variable.

Body parameters

name string

The name of the variable.

value string

The value of the variable.

# HTTP response status codes for "Update a repository variable"

Status code	Description
204	No Content

# Code samples for "Update a repository variable"



#### Response

Status: 204

# **Delete a repository variable** *₽*

Works with <u>GitHub Apps</u>

Deletes a repository variable using the variable name.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the actions\_variables:write repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Delete a repository variable"

#### 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.

name string Required

The name of the variable.

# HTTP response status codes for "Delete a repository variable"

# Status code Description 204 No Content

#### Code samples for "Delete a repository variable"



#### Response

Status: 204

# List environment variables @

Works with <u>GitHub Apps</u>

Lists all environment variables.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the environments: read repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "List environment variables"

#### Headers

accept string

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

#### **Path parameters**

repository\_id integer Required

The unique identifier of the repository.

environment name string Required

The name of the environment.

#### **Query parameters**

per\_page integer

The number of results per page (max 30).

Default: 10

page integer

Page number of the results to fetch.

Default: 1

# HTTP response status codes for "List environment variables"

Status code Description

200 OK

#### Code samples for "List environment variables"

GET /repositories/{repository\_id}/environments/{environment\_name}/variables

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/repositories/REPOSITORY\_ID/environments/ENVIRONMENT\_NAME/variables

#### Response

Example response Response schema

Status: 200

{ "total\_count": 2, "variables": [ { "name": "USERNAME", "value": "octocat", "created\_at": "2019-08-10T14:59:22Z", "updated\_at": "2020-01-10T14:59:22Z" }, { "name": "EMAIL", "value": "octocat@github.com", "created\_at": "2020-01-10T10:59:22Z", "updated\_at": "2020-01-11T11:59:22Z" } ] }

# Create an environment variable @

# Works with GitHub Apps

Create an environment variable that you can reference in a GitHub Actions workflow.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the environment:write repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "Create an environment variable"

#### Headers

accept string

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

#### **Path parameters**

repository\_id integer Required

The unique identifier of the repository.

environment\_name string Required

The name of the environment.

#### **Body parameters**

name string Required

The name of the variable.

value string Required

The value of the variable.

# HTTP response status codes for "Create an environment variable"

Status code Description

201 Created

# Code samples for "Create an environment variable"



2022-11-28" \ https://api.github.com/repositories/REPOSITORY\_ID/environments/ENVIRONMENT\_NAME/variables \ -d \ {"name":"USERNAME", "value":"octocat"}'

#### Response

Example response Response schema
Status: 201

# Get an environment variable @

Works with <u>GitHub Apps</u>

Gets a specific variable in an environment.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the environments: read repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

#### Parameters for "Get an environment variable"

#### **Headers**

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

# Path parameters

**repository\_id** integer Required

The unique identifier of the repository.

environment\_name string Required

The name of the environment.

name string Required

The name of the variable.

# HTTP response status codes for "Get an environment variable"

Status code Description

200 OK

# Code samples for "Get an environment variable"

GET /repositories/{repository\_id}/environments/{environment\_name}/variables/{name}



#### Response

```
Example response

Response schema

Status: 200

{ "name": "USERNAME", "value": "octocat", "created_at": "2021-08-10T14:59:22Z", "updated_at": "2022-01-10T14:59:22Z" }
```

# Update an environment variable &

Works with <u>GitHub Apps</u>

Updates an environment variable that you can reference in a GitHub Actions workflow.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the environment:write repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Update an environment variable"

#### **Headers**

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

# Path parameters

repository\_id integer Required

The unique identifier of the repository.

name string Required

The name of the variable.

environment\_name string Required

The name of the environment.

# **Body parameters**

name string

The name of the variable.

value string

The value of the variable.

# HTTP response status codes for "Update an environment variable"

Status code Description

204 No Content

# Code samples for "Update an environment variable"

repositories/{repository\_id}/environments/{environment\_name}/variables/{name}

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" \ https://api.github.com/repositories/REPOSITORY\_ID/environments/ENVIRONMENT\_NAME/variables/NAME \ -d '{"name":"USERNAME","value":"octocat"}'

#### Response

Status: 204

# Delete an environment variable @

Works with <u>GitHub Apps</u>

Deletes an environment variable using the variable name.

You must authenticate using an access token with the repo scope to use this endpoint. GitHub Apps must have the environment:write repository permission to use this endpoint. Authenticated users must have collaborator access to a repository to create, update, or read variables.

# Parameters for "Delete an environment variable"

#### **Headers**

accept string

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

# Path parameters

repository\_id integer Required

The unique identifier of the repository.

name string Required

The name of the variable.

environment\_name string Required

The name of the environment.

# HTTP response status codes for "Delete an environment variable"

Status code Description

204 No Content

# Code samples for "Delete an environment variable"

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/repositories/REPOSITORY\_ID/environments/ENVIRONMENT\_NAME/variables/NAME

# Response

Status: 204

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