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

Repository webhooks

Use the REST API to create and manage webhooks for your repositories.

About repository webhooks

Repository webhooks allow your server to receive HTTP `POST` payloads whenever certain events happen in a repository. For more information, see "Webhooks documentation."

List repository webhooks

Works with GitHub Apps

Lists webhooks for a repository. `last response` may return null if there have not been any deliveries within 30 days.

Parameters for "List repository webhooks"

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 100).

Default: `30`

`page` integer

Page number of the results to fetch.

Default: `1`

HTTP response status codes for "List repository webhooks"

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

Code samples for "List repository webhooks"

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

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/hooks
```

Response

Example response | Response schema

Status: 200


```
[ { "type": "Repository", "id": 12345678, "name": "web", "active": true, "events": [ "push", "pull_request" ], "config": { "content_type": "json", "insecure_ssl": "0", "url": "https://example.com/webhook" }, "updated_at": "2019-06-03T00:57:16Z", "created_at": "2019-06-03T00:57:16Z", "url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678", "test_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/test", "ping_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/pings", "deliveries_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/deliveries", "last_response": { "code": null, "status": "unused", "message": null } } ]
```


Create a repository webhook

Works with GitHub Apps

Repositories can have multiple webhooks installed. Each webhook should have a unique `config`. Multiple webhooks can share the same `config` as long as those webhooks do not have any `events` that overlap.

Parameters for "Create a repository webhook"

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.

Body parameters

`name` string

Use `web` to create a webhook. Default: `web`. This parameter only accepts the value `web`.

`config` object

Key/value pairs to provide settings for this webhook.

▶ Properties of `config`

`events` array of strings

Determines what events the hook is triggered for.

Default: `["push"]`

`active` boolean

Determines if notifications are sent when the webhook is triggered. Set to `true` to send notifications.

Default: `true`

HTTP response status codes for "Create a repository webhook"

Status code	Description
`201`	Created
`403`	Forbidden
`404`	Resource not found
`422`	Validation failed, or the endpoint has been spammed.

Code samples for "Create a repository webhook"

`POST` `/repos/{owner}/{repo}/hooks`

cURL | JavaScript

```
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/repos/OWNER/REPO/hooks \ -d '{"name":"web","active":true,"events":["push","pull_request"],"config":{"url":"https://example.com/webhook","content_type":"json","insecure_ssl":"0"}}'
```

Response

Example response | Response schema

```
Status: 201
```


```
{ "type": "Repository", "id": 12345678, "name": "web", "active": true, "events": [ "push", "pull_request" ], "config": { "content_type": "json", "insecure_ssl": "0", "url": "https://example.com/webhook" }, "updated_at": "2019-06-03T00:57:16Z", "created_at": "2019-06-03T00:57:16Z", "url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678", "test_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/test", "ping_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/pings", "deliveries_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/deliveries",
```

"last_response": { "code": null, "status": "unused", "message": null } }

Get a repository webhook

Works with GitHub Apps

Returns a webhook configured in a repository. To get only the webhook `config` properties, see "Get a webhook configuration for a repository."

Parameters for "Get a repository webhook"

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.

hook_id integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

HTTP response status codes for "Get a repository webhook"

Status code	Description
200	OK
404	Resource not found

Code samples for "Get a repository webhook"

GET /repos/{owner}/{repo}/hooks/{hook_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" \ https://api.github.com/repos/OWNER/REPO/hooks/HOOK_ID
```

Response

Example response Response schema

```
Status: 200
```


```
{ "type": "Repository", "id": 12345678, "name": "web", "active": true, "events": [ "push", "pull_request" ], "config": { "content_type": "json", "insecure_ssl": "0", "url": "https://example.com/webhook" }, "updated_at": "2019-06-03T00:57:16Z", "created_at": "2019-06-03T00:57:16Z", "url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678", "test_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/test", "ping_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/pings", "deliveries_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/deliveries", "last_response": { "code": null, "status": "unused", "message": null } }
```


Update a repository webhook

Works with GitHub Apps

Updates a webhook configured in a repository. If you previously had a `secret` set, you must provide the same `secret` or set a new `secret` or the secret will be removed. If you are only updating individual webhook `config` properties, use "Update a webhook configuration for a repository."

Parameters for "Update a repository webhook"

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.

`hook_id` integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

Body parameters

`config` object

Key/value pairs to provide settings for this webhook.

▶ Properties of `config`

`events` array of strings

Determines what events the hook is triggered for. This replaces the entire array of events.

Default: `["push"]`

`add_events` array of strings

Determines a list of events to be added to the list of events that the Hook triggers for.

`remove_events` array of strings

Determines a list of events to be removed from the list of events that the Hook triggers for.

`active` boolean

Determines if notifications are sent when the webhook is triggered. Set to `true` to send notifications.

Default: `true`

HTTP response status codes for "Update a repository webhook"

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

Code samples for "Update a repository webhook"

`PATCH` `/repos/{owner}/{repo}/hooks/{hook_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" \ https://api.github.com/repos/OWNER/REPO/hooks/HOOK_ID \ -d '{"active":true,"add_events":["pull_request"]}'
```

Response

Example response | Response schema

```
Status: 200
```


```
{ "type": "Repository", "id": 12345678, "name": "web", "active": true, "events": [ "push", "pull_request" ], "config": { "content_type": "json", "insecure_ssl": "0", "url": "https://example.com/webhook" }, "updated_at": "2019-06-03T00:57:16Z", "created_at": "2019-06-03T00:57:16Z", "url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678", "test_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/test", "ping_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/pings", "deliveries_url": "https://api.github.com/repos/octocat/Hello-World/hooks/12345678/deliveries", "last_response": { "code": null, "status": "unused", "message": null } }
```


Delete a repository webhook

Works with GitHub Apps

Parameters for "Delete a repository webhook"

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.

hook_id integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

HTTP response status codes for "Delete a repository webhook"

Status code	Description
`204`	No Content
`404`	Resource not found

Code samples for "Delete a repository webhook"

DELETE /repos/{owner}/{repo}/hooks/{hook_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" \ https://api.github.com/repos/OWNER/REPO/hooks/HOOK_ID
```

Response

```
Status: 204
```

Get a webhook configuration for a repository

Works with GitHub Apps

Returns the webhook configuration for a repository. To get more information about the webhook, including the `active` state and `events`, use "Get a repository webhook."

Access tokens must have the `read:repo_hook` or `repo` scope, and GitHub Apps must have the `repository_hooks:read` permission.

Parameters for "Get a webhook configuration for a repository"

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.

hook_id integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

HTTP response status codes for "Get a webhook configuration for a repository"

Status code	Description
`200`	OK

Code samples for "Get a webhook configuration for a repository"

GET /repos/{owner}/{repo}/hooks/{hook_id}/config

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/hooks/HOOK_ID/config
```

Response

Example response Response schema

```
Status: 200
```

```
{ "content_type": "json", "insecure_ssl": "0", "secret": "********", "url": "https://example.com/webhook" }
```

Update a webhook configuration for a repository

Works with GitHub Apps

Updates the webhook configuration for a repository. To update more information about the webhook, including the

`active` state and `events`, use "Update a repository webhook."

Access tokens must have the `write:repo_hook` or `repo` scope, and GitHub Apps must have the `repository_hooks:write` permission.

Parameters for "Update a webhook configuration for a repository"

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.

`hook_id` integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

Body parameters

`url` string

The URL to which the payloads will be delivered.

`content_type` string

The media type used to serialize the payloads. Supported values include `json` and `form`. The default is `form`.

`secret` string

If provided, the `secret` will be used as the `key` to generate the HMAC hex digest value for delivery signature headers.

`insecure_ssl` string or number

Determines whether the SSL certificate of the host for `url` will be verified when delivering payloads. Supported values include `0` (verification is performed) and `1` (verification is not performed). The default is `0`. **We strongly recommend not setting this to `1` as you are subject to man-in-the-middle and other attacks.**

HTTP response status codes for "Update a webhook configuration for a repository"

Status code	Description
`200`	OK

Code samples for "Update a webhook configuration for a repository"

`PATCH` `/repos/{owner}/{repo}/hooks/{hook_id}/config`

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/repos/OWNER/REPO/hooks/HOOK_ID/config \ -d
```

```
'{"content_type":"json","url":"https://example.com/webhook"}'
```

Response

Example response | Response schema

```
Status: 200
```

```
{ "content_type": "json", "insecure_ssl": "0", "secret": "********", "url": "https://example.com/webhook" }
```

List deliveries for a repository webhook

Works with GitHub Apps

Returns a list of webhook deliveries for a webhook configured in a repository.

Parameters for "List deliveries for a repository webhook"

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.

hook_id integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

Query parameters

per_page integer

The number of results per page (max 100).

Default: `30`

`cursor` string

Used for pagination: the starting delivery from which the page of deliveries is fetched. Refer to the `link` header for the next and previous page cursors.

`redelivery` boolean

HTTP response status codes for "List deliveries for a repository webhook"

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

Code samples for "List deliveries for a repository webhook"

`GET` `/repos/{owner}/{repo}/hooks/{hook_id}/deliveries`

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/hooks/HOOK_ID/deliveries
```

Response

Example response | Response schema

```
Status: 200
```


```
[ { "id": 12345678, "guid": "0b989ba4-242f-11e5-81e1-c7b6966d2516", "delivered_at": "2019-06-03T00:57:16Z", "redelivery": false, "duration": 0.27, "status": "OK", "status_code": 200, "event": "issues", "action": "opened", "installation_id": 123, "repository_id": 456 }, { "id": 123456789, "guid": "0b989ba4-242f-11e5-81e1-c7b6966d2516", "delivered_at": "2019-06-04T00:57:16Z", "redelivery": true, "duration": 0.28, "status": "OK", "status_code": 200, "event": "issues", "action": "opened", "installation_id": 123, "repository_id": 456 } ]
```


Get a delivery for a repository webhook

Works with GitHub Apps

Returns a delivery for a webhook configured in a repository.

Parameters for "Get a delivery for a repository webhook"

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.

`hook_id` integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

`delivery_id` integer Required

HTTP response status codes for "Get a delivery for a repository webhook"

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

Code samples for "Get a delivery for a repository webhook"

`GET` `/repos/{owner}/{repo}/hooks/{hook_id}/deliveries/{delivery_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" \ https://api.github.com/repos/OWNER/REPO/hooks/HOOK_ID/deliveries/DELIVERY_ID
```

Response

Example response | Response schema

```
Status: 200
```


```
{ "id": 12345678, "guid": "0b989ba4-242f-11e5-81e1-c7b6966d2516", "delivered_at": "2019-06-03T00:57:16Z", "redelivery": false, "duration": 0.27, "status": "OK", "status_code": 200, "event": "issues", "action": "opened", "installation_id": 123, "repository_id": 456, "url": "https://www.example.com", "request": { "headers": { "X-GitHub-Delivery": "0b989ba4-242f-11e5-81e1-c7b6966d2516", "X-Hub-Signature-256": "sha256=6dcb09b5b57875f334f61aebed695e2e4193db5e", "Accept": "*/*", "X-GitHub-Hook-ID": "42", "User-Agent": "GitHub-Hookshot/b8c71d8", "X-GitHub-Event": "issues", "X-GitHub-Hook-Installation-Target-ID": "123", "X-GitHub-Hook-Installation-Target-Type": "repository", "content-type": "application/json", "X-Hub-Signature":
```


Redeliver a delivery for a repository webhook

Works with GitHub Apps

Redeliver a webhook delivery for a webhook configured in a repository.

Parameters for "Redeliver a delivery for a repository webhook"

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.

hook_id integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

delivery_id integer Required

HTTP response status codes for "Redeliver a delivery for a repository webhook"

Status code	Description
202	Accepted
400	Bad Request
422	Validation failed, or the endpoint has been spammed.

Code samples for "Redeliver a delivery for a repository webhook"

POST /repos/{owner}/{repo}/hooks/{hook_id}/deliveries/{delivery_id}/attempts

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/repos/OWNER/REPO/hooks/HOOK_ID/deliveries/DELIVERY_ID/attempts
```

Accepted

Example response Response schema

```
Status: 202
```

Ping a repository webhook

Works with GitHub Apps

This will trigger a ping event to be sent to the hook.

Parameters for "Ping a repository webhook"

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.

hook_id integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

HTTP response status codes for "Ping a repository webhook"

Status code	Description
204	No Content
404	Resource not found

Code samples for "Ping a repository webhook"

POST /repos/{owner}/{repo}/hooks/{hook_id}/pings

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/repos/OWNER/REPO/hooks/HOOK_ID/pings
```

Response

```
Status: 204
```

Test the push repository webhook

Works with GitHub Apps

This will trigger the hook with the latest push to the current repository if the hook is subscribed to `push` events. If the hook is not subscribed to `push` events, the server will respond with 204 but no test POST will be generated.

Note: Previously `/repos/:owner/:repo/hooks/:hook_id/test`

Parameters for "Test the push repository webhook"

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.

`hook_id` integer Required

The unique identifier of the hook. You can find this value in the `X-GitHub-Hook-ID` header of a webhook delivery.

HTTP response status codes for "Test the push repository webhook"

Status code	Description
`204`	No Content
`404`	Resource not found

Code samples for "Test the push repository webhook"

`POST` `/repos/{owner}/{repo}/hooks/{hook_id}/tests`

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/repos/OWNER/REPO/hooks/HOOK_ID/tests
```

Response

```
Status: 204
```

Legal

© 2023 GitHub, Inc. Terms Privacy Status Pricing Expert services Blog