Webhooks

- Raw event as JSON or FORM payload:
- Dedicated integration:
- Generic notification messages in chosen channel/chat:
- Event information
- Example
- Authorization header

Forgejo supports webhooks for repository events. This can be configured on the settings page `/:username/:reponame/settings/hooks` by a repository admin. Webhooks can also be configured on a per-organization and whole-system basis (default webhooks on repository creation or instance-wide webhooks). The currently supported webhook types are:

Raw event as JSON or FORM payload:

- Forgejo (GET or POST)
- Gitea (GET or POST)
- Gogs (POST)

Dedicated integration:

- Packagist: ask Packagist to refresh the given package
- SourceHut Builds: submit build manifests (only on push)

Generic notification messages in chosen channel/chat:

- Matrix
- Slack
- Discord
- Dingtalk

- Telegram
- Microsoft Teams
- Feishu / Lark Suite
- WeCom (Wechat Work)

These channels don't implement all webhook types. Those types that are implemented have to be manually tested. Try them and open an issue if they do not work for your use case.

Event information

The following is an example of event information that will be sent by Forgejo to a Payload URL:

```
X-Forgejo-Delivery: f6266f16-1bf3-46a5-9ea4-602e06ead473
X-Forgejo-Event: push
X-GitHub-Delivery: f6266f16-1bf3-46a5-9ea4-602e06ead473
X-GitHub-Event: push
X-Gogs-Delivery: f6266f16-1bf3-46a5-9ea4-602e06ead473
X-Gogs-Event: push
X-Gitea-Delivery: f6266f16-1bf3-46a5-9ea4-602e06ead473
X-Gitea-Event: push
```


```
{
  "ref": "refs/heads/develop",
  "before": "28e1879d029cb852e4844d9c718537df08844e03",
  "after": "bffeb74224043ba2feb48d137756c8a9331c449a",
  "compare_url":
"http://localhost:3000/forgejo/webhooks/compare/28e1879d029cb852e4844d9c718537df08844e03...bff
eb74224043ba2feb48d137756c8a9331c449a",
  "commits": [
    {
      "id": "bffeb74224043ba2feb48d137756c8a9331c449a",
      "message": "Webhooks Yay!",
      "url":
"http://localhost:3000/forgejo/webhooks/commit/bffeb74224043ba2feb48d137756c8a9331c449a",
      "author": {
        "name": "Forgejo",
        "email": "someone@forgejo.org",
        "username": "forgejo"
      },
      "committer": {
```

```
      "name": "Forgejo",
      "email": "someone@forgejo.org",
      "username": "forgejo"
    },
    "timestamp": "2017-03-13T13:52:11-04:00"
  }
],
"repository": {
  "id": 140,
  "owner": {
    "id": 1,
    "login": "forgejo",
    "full_name": "Forgejo",
    "email": "someone@forgejo.org",
    "avatar_url": "https://localhost:3000/avatars/1",
    "username": "forgejo"
  },
  "name": "webhooks",
  "full_name": "forgejo/webhooks",
  "description": "",
  "private": false,
  "fork": false,
  "html_url": "http://localhost:3000/forgejo/webhooks",
  "ssh_url": "ssh://forgejo@localhost:2222/forgejo/webhooks.git",
  "clone_url": "http://localhost:3000/forgejo/webhooks.git",
  "website": "",
  "stars_count": 0,
  "forks_count": 1,
  "watchers_count": 1,
  "open_issues_count": 7,
  "default_branch": "master",
  "created_at": "2017-02-26T04:29:06-05:00",
  "updated_at": "2017-03-13T13:51:58-04:00"
},
"pusher": {
  "id": 1,
  "login": "forgejo",
  "full_name": "Forgejo",
  "email": "someone@forgejo.org",
```

```
    "avatar_url": "https://localhost:3000/avatars/1",
    "username": "forgejo"
  },
  "sender": {
    "id": 1,
    "login": "forgejo",
    "full_name": "Forgejo",
    "email": "someone@forgejo.org",
    "avatar_url": "https://localhost:3000/avatars/1",
    "username": "forgejo"
  }
}
```

Example

This is an example of how to use webhooks to run a PHP script upon push requests to the repository. In your repository Settings, under Webhooks, set up a Forgejo webhook as follows:

- Target URL: http://example.com/webhook.php
- HTTP Method: POST
- POST Content Type: application/json
- Secret: 123
- Trigger On: Push Events
- Active: Checked

Now, on your server, create the PHP file `webhook.php`.

```
<?php

$secret_key = '123';

// check for POST request
if ($_SERVER['REQUEST_METHOD'] != 'POST') {
    error_log('FAILED - not POST - '. $_SERVER['REQUEST_METHOD']);
    exit();
}

// get content type
$content_type = isset($_SERVER['CONTENT_TYPE']) ? strtolower(trim($_SERVER['CONTENT_TYPE'])) :
'';
```

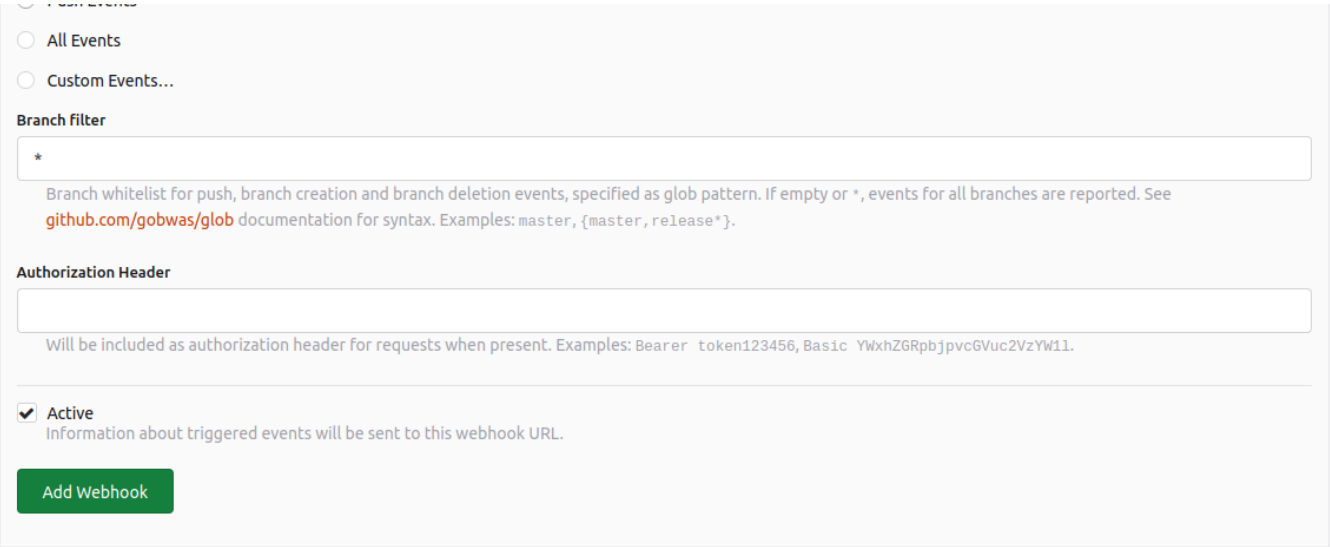
```
if ($content_type != 'application/json') {
    error_log('FAILED - not application/json - '. $content_type);
    exit();
}

// get payload
$payload = trim(file_get_contents("php://input"));

if (empty($payload)) {
    error_log('FAILED - no payload');
    exit();
}

// get header signature
$header_signature = isset($_SERVER['HTTP_X_FORGEJO_SIGNATURE']) ?
$_SERVER['HTTP_X_FORGEJO_SIGNATURE'] : '';

if (empty($header_signature)) {
    error_log('FAILED - header signature missing');
    exit();
}

// calculate payload signature
$payload_signature = hash_hmac('sha256', $payload, $secret_key, false);

// check payload signature against header signature
if ($header_signature !== $payload_signature) {
    error_log('FAILED - payload signature');
    exit();
}

// convert json to array
$decoded = json_decode($payload, true);

// check for json decode errors
if (json_last_error() !== JSON_ERROR_NONE) {
    error_log('FAILED - json decode - '. json_last_error());
    exit();
}
```

```
// success, do something
```

There is a Test Delivery button in the webhook settings that allows testing the configuration as well as a list of the most Recent Deliveries.

Authorization header

Forgejo webhooks can be configured to send an authorization header to the target.



The authentication string is stored encrypted in the database.

□□□ #2
□ cocobook-sync □□□ 2026-07-26 05:23:37 UTC
□ cocobook-sync □□□ 2026-07-26 05:23:37 UTC