Webhooks

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You can use webhooks to cause an action in another service in response to a push event in the repository. Webhooks are POST requests sent to a URL you define in Docker Hub.

Prerequisites

For a personal repository, only the repository owner can create webhooks. Collaborators can't create webhooks.

For an organization repository, you must be an organization owner or editor, or a team member with admin permissions on the repository. For more details, see Organization teams.

To create a webhook using the Docker Hub API, authenticate with one of the following:

- A personal access token with delete permissions
- An organization access token with the `scope-webhook-edit` scope or higher

Create a webhook

To create a webhook:

1. In your chosen repository, select the **Webhooks** tab.
2. Provide a name for the webhook.
3. Provide a destination webhook URL. This is where webhook POST requests are delivered. The URL must be 255 characters or fewer.
4. Select **Create**.

View webhook delivery history

To view the history of the webhook:

1. Hover over your webhook under the **Current Webhooks section**.
2. Select the **Menu options** icon.
3. Select **View History**.

You can then view the delivery history, and whether delivering the POST request was successful or not.

Example webhook payload

Webhook payloads have the following JSON format:


```
{
  "callback_url":
"https://registry.hub.docker.com/u/svendowideit/testhook/hook/2141b5bi5i5b02bec211i4eeih0242eg
11000a/",
  "push_data": {
    "pushed_at": 1417566161,
    "pusher": "trustedbuilder",
    "tag": "latest"
  },
  "repository": {
    "comment_count": 0,
    "date_created": 1417494799,
    "description": "",
    "dockerfile": "#\n# BUILD\u0009\u0009docker build -t svendowideit/apt-cacher .\n#
RUN\u0009\u0009docker run -d -p 3142:3142 -name apt-cacher-run apt-cacher\n#\n# and then you
can run containers with:\n# \u0009\u0009docker run -t -i -rm -e http_proxy
http://192.168.1.2:3142/ debian
bash\n#\nFROM\u0009\u0009ubuntu\n\n\nVOLUME\u0009\u0009[/var/cache/apt-cacher-
ng]\nRUN\u0009\u0009apt-get update ; apt-get install -yq apt-cacher-ng\n\nEXPOSE
\u0009\u00093142\nCMD\u0009\u0009chmod 777 /var/cache/apt-cacher-ng ; /etc/init.d/apt-cacher-
ng start ; tail -f /var/log/apt-cacher-ng/*\n",
    "full_description": "Docker Hub based automated build from a GitHub repo",
    "is_official": false,
```

```
    "is_private": true,
    "is_trusted": true,
    "name": "testhook",
    "namespace": "svendowideit",
    "owner": "svendowideit",
    "repo_name": "svendowideit/testhook",
    "repo_url": "https://registry.hub.docker.com/u/svendowideit/testhook/",
    "star_count": 0,
    "status": "Active"
  }
}
```

> [!NOTE]
>
> The `callback_url` field is a legacy field and is no longer supported.

Webhooks on a mirrored Docker Hardened Image repository include an additional `dhi_metadata` object describing the vulnerability and package changes in the pushed build. For details, see Automate syncing with webhooks.

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