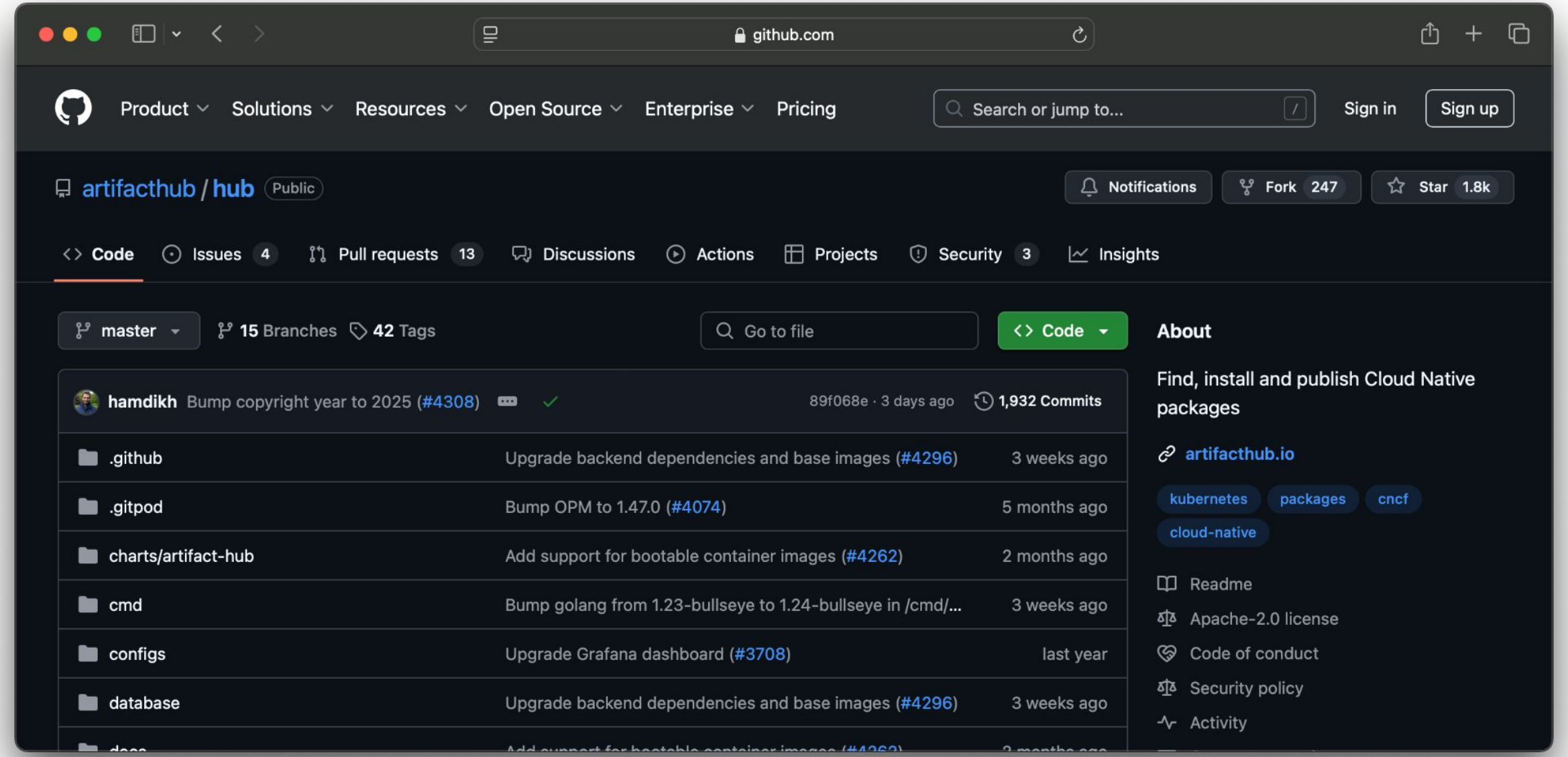
Leveraging the Little Known Features of Artifact Hub

Matt Farina

Artifact Hub

KubeCon CloudNativeCon Europe 2025



artifacthub.io

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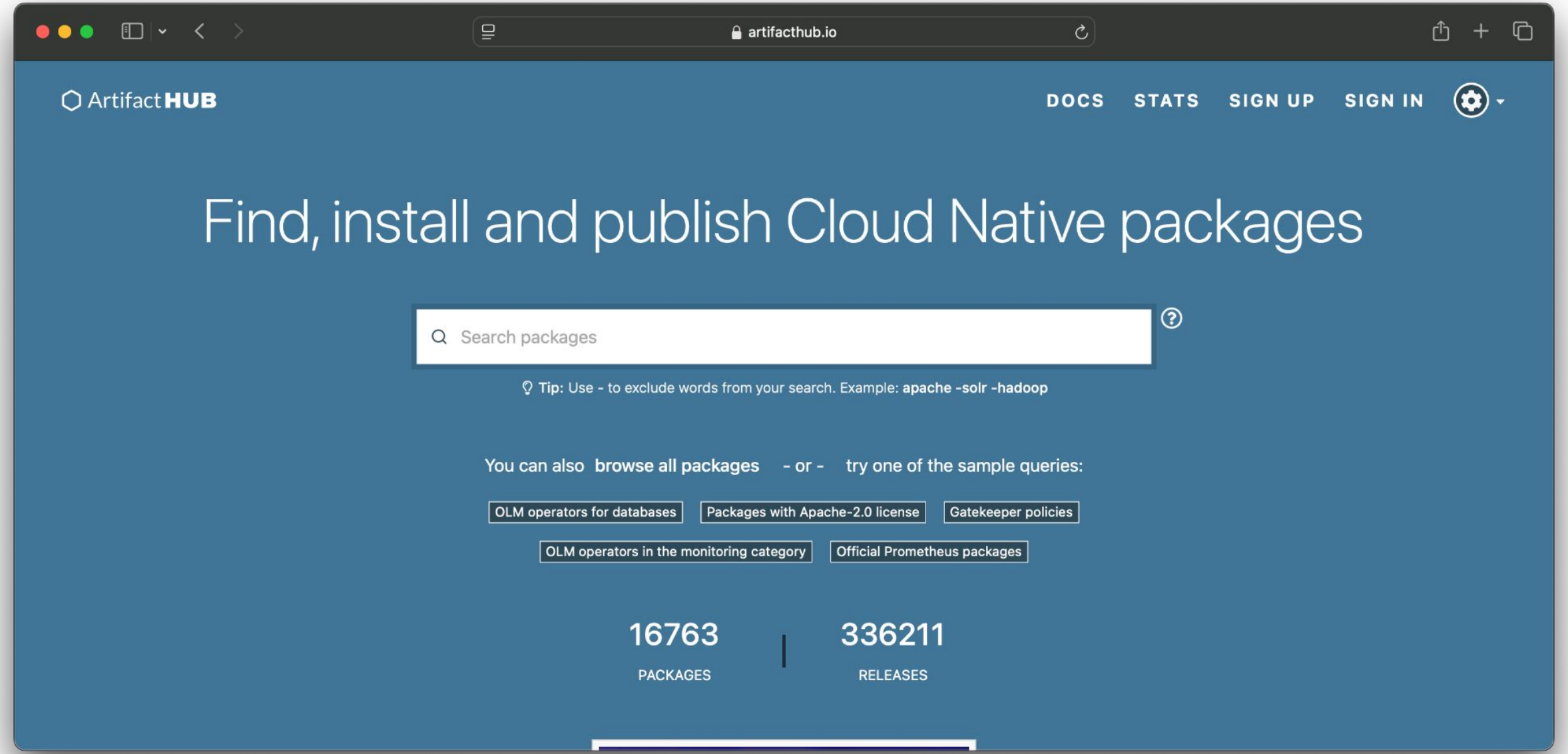
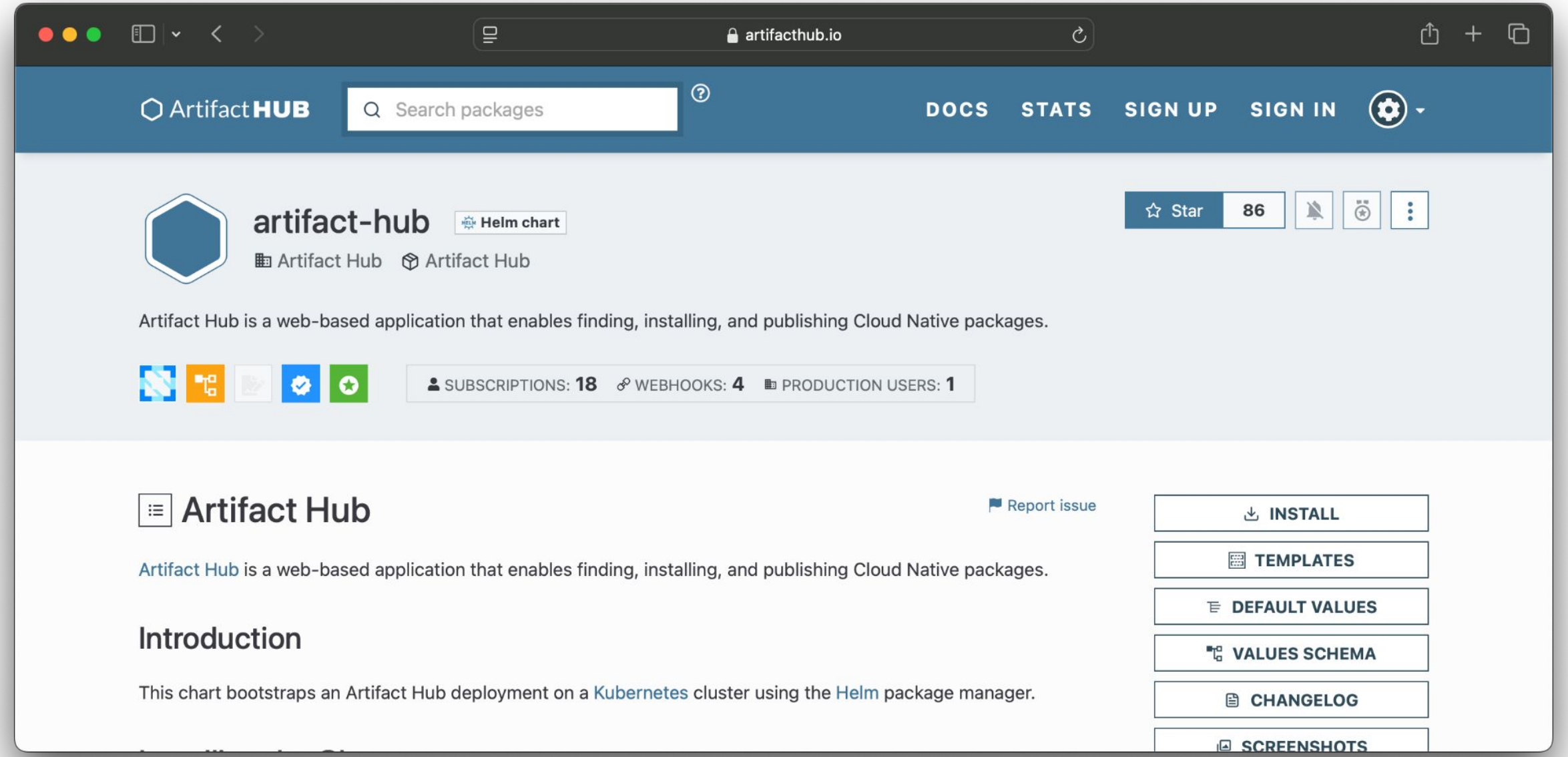
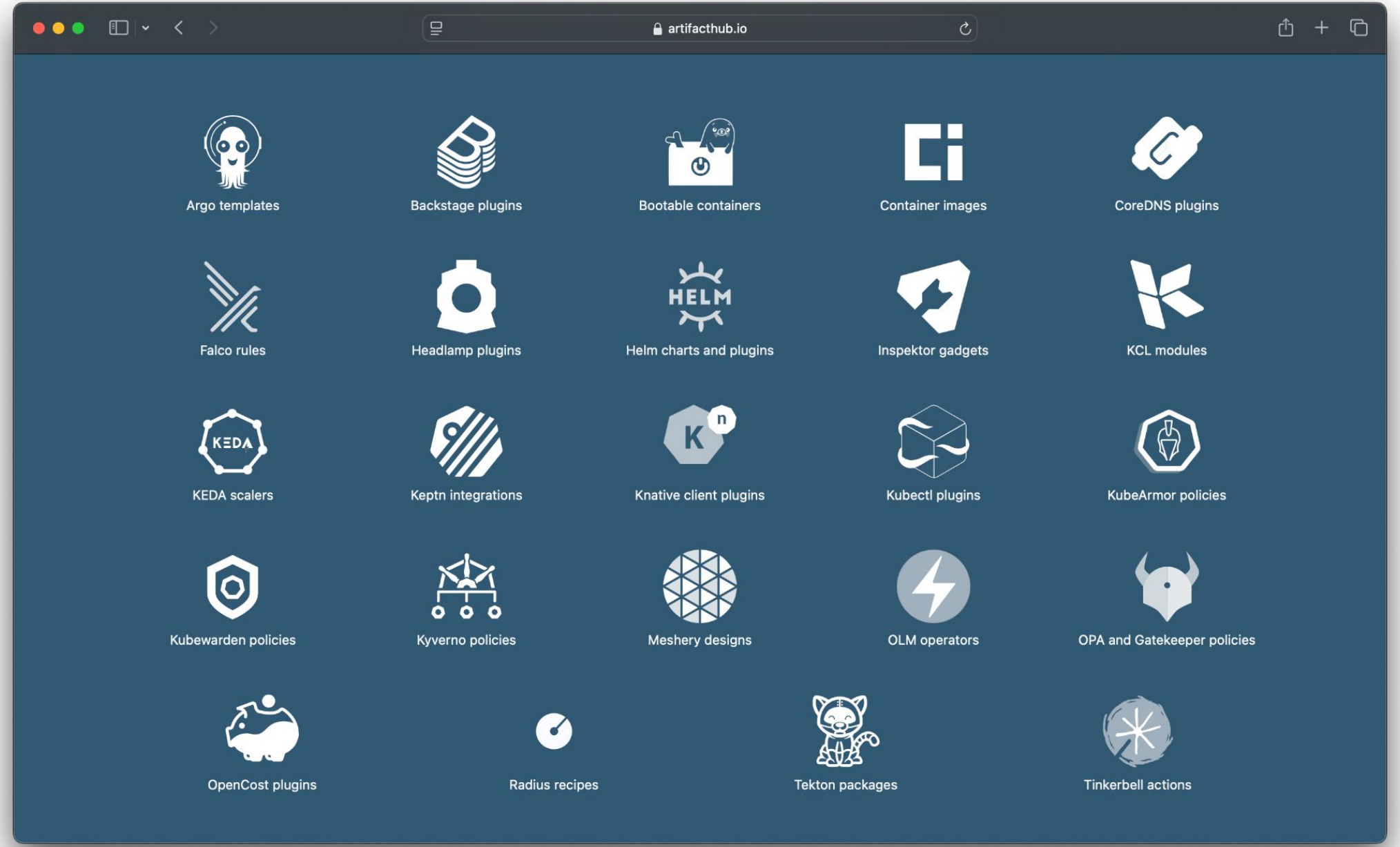


Artifact Hub on artifacthub.io




artifacthub.io
Argo templates
Backstage plugins
Bootable containers
Container images
CoreDNS plugins
Falco rules
Headlamp plugins
HELM
Helm charts and plugins
Inspektor gadgets
KCL modules
KEDA
KEDA scalers
Keptn integrations
K
n
Knative client plugins
Kubectl plugins
KubeArmor policies
Kubewarden policies
Kyverno policies
Meshery designs
OLM operators
OPA and Gatekeeper policies
OpenCost plugins
Radius recipes
Tekton packages
Tinkerbell actions

KubeCon Utah

https://sched.co/1howN

Who Is This Guy?

Matt Farina
mattfarina.com
@mattfarina

SUSE

RANCHER®

The Developers

Sergio and **Cintia** are the main developers

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Tell Artifact Hub More About Your Artifacts

Auto Detection

Name

Description

Version

Other Details

You Might Want To

- Control the name
- Provide a category or keywords
- Recommend other artifacts
- Share the name of the person or company that produced the artifact
- Set the install instructions
- Even more…

YAML Files

artifacthub-pkg.yml


```yaml
version: A SemVer 2 version (required)
name: The name of the package (only alphanum, no spaces, dashes allowed) (required)
alternativeName: Alternative name of the package (optional)
category: Category of the package (optional)
displayName: The name of the package nicely formatted (required)
createdAt: The date this package was created (RFC3339 layout) (required)
description: A short description of the package (required)
license: SPDX identifier of the package license (https://spdx.org/licenses/) (optional)
homeURL: The URL of the project home page (optional)
keywords: # (optional)
  - A list of keywords about this package
  - Using one or more categories names as keywords will improve package visibility
changes: # (optional)
  - kind: added # Supported kinds are: added, changed, deprecated, removed, fixed and security
    description: cool feature
    links:
      - name: GitHub Issue
        url: https://github.com/issue-url
      - name: GitHub PR
        url: https://github.com/pr-url
```

The Name

artifacthub-pkg.yml:

```yaml
name: postresql
alternativeName: postgres
```

Manifest annotation:

```yaml
annotations:
  artifacthub.io/alternativeName: postgres
```

Note, the alternative name must be a substring of the name, or the name must be a substring of the alternative name.

Changelog

artifacthub-pkg.yml:

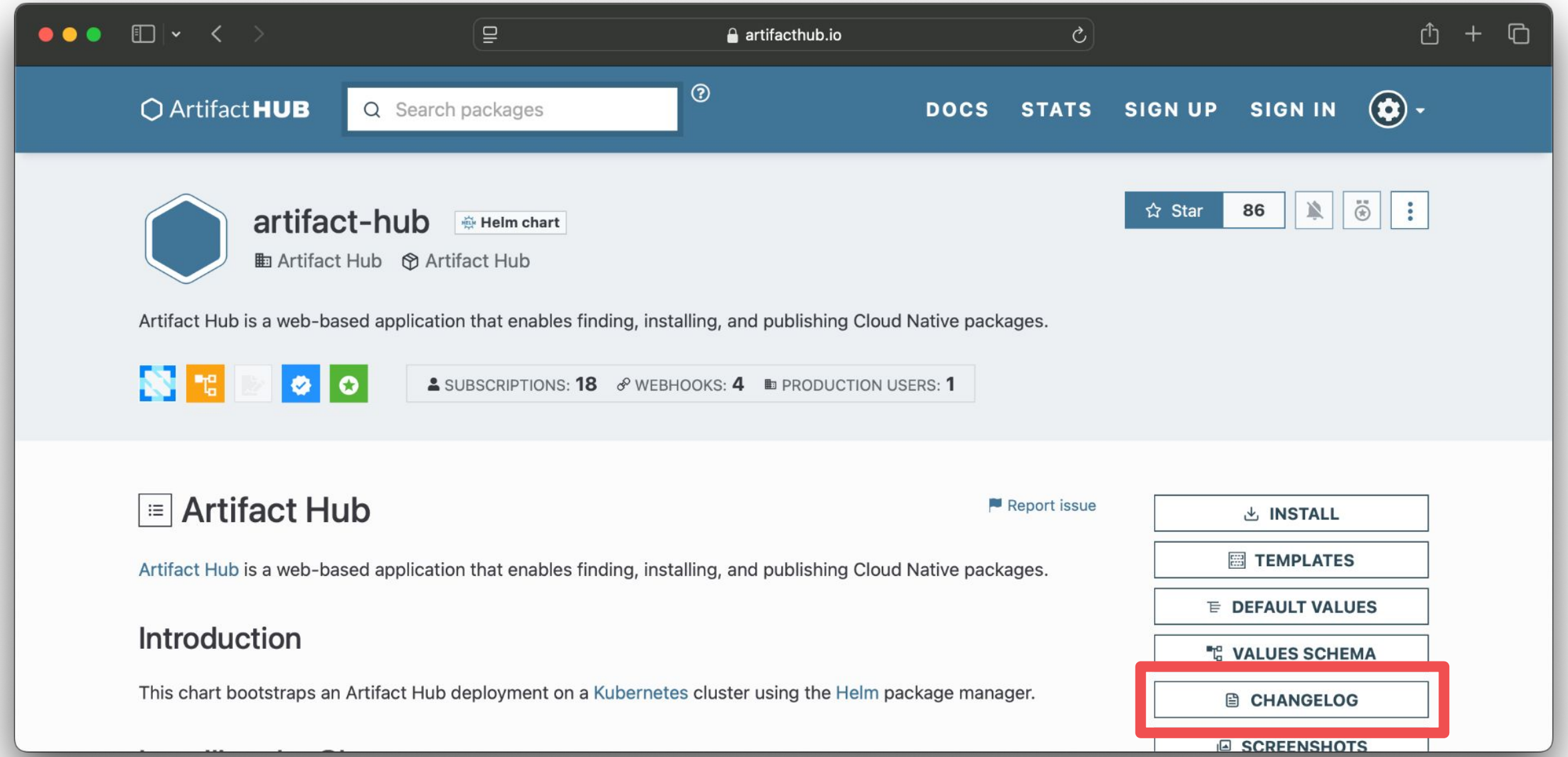
```yaml
changes:
  - kind: added
    description: cool feature
    links:
      - name: GitHub Issue
        url: https://github.com/issue-url
      - name: GitHub PR
        url: https://github.com/pr-url
```

Changelog

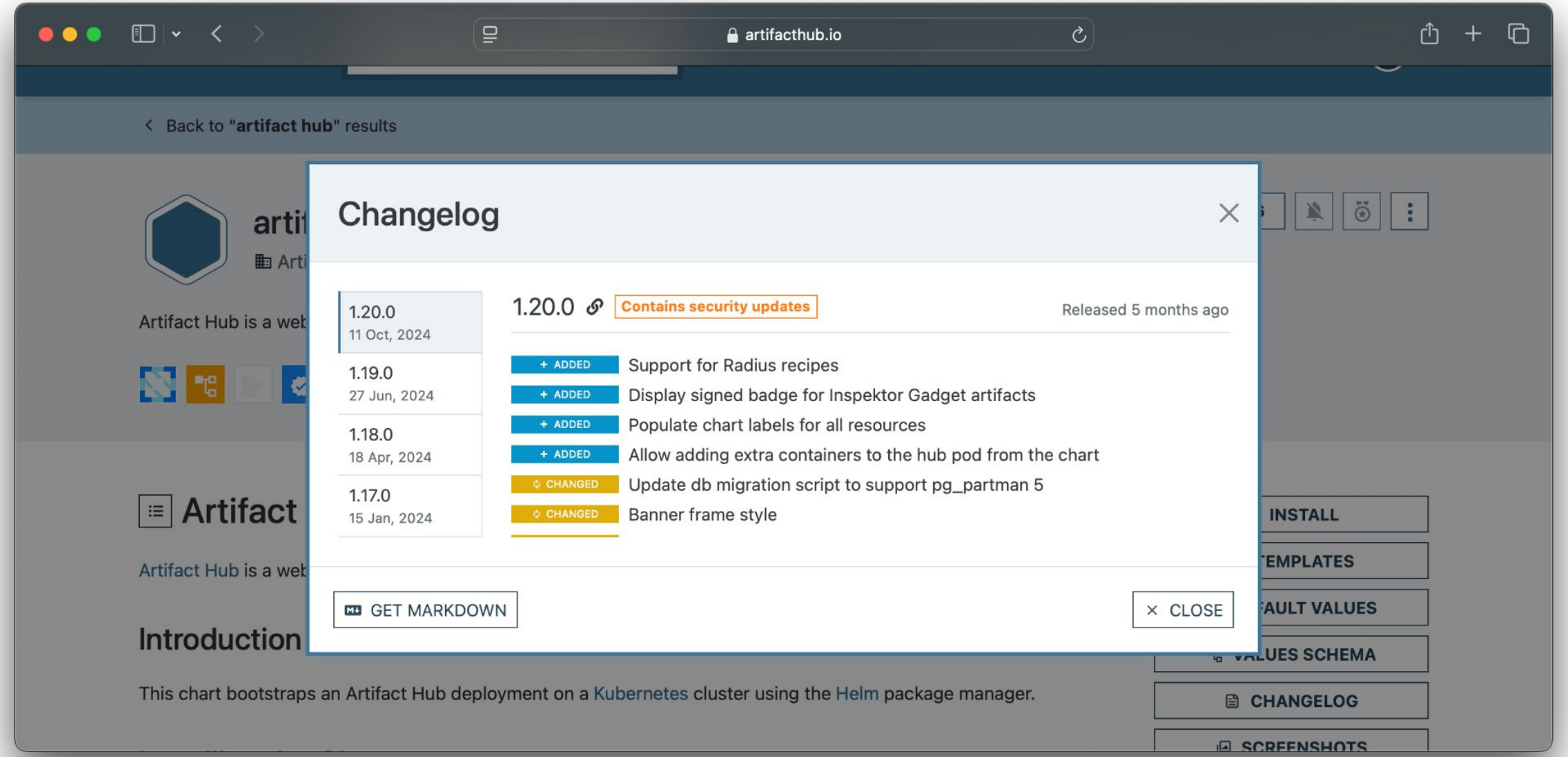
Manifest annotation:

```yaml
annotations:
    artifacthub.io/changes:
      - kind: added
        description: cool feature
        links:
          - name: GitHub Issue
            url: https://github.com/issue-url
          - name: GitHub PR
            url: https://github.com/pr-url
```

Changelog


artifacthub.io
Artifact HUB
Search packages
DOCS
STATS
SIGN UP
SIGN IN
artifact-hub
Helm chart
Artifact Hub
Artifact Hub
Star
86
Artifact Hub is a web-based application that enables finding, installing, and publishing Cloud Native packages.
SUBSCRIPTIONS: 18
WEBHOOKS: 4
PRODUCTION USERS: 1
Artifact Hub
Report issue
Artifact Hub is a web-based application that enables finding, installing, and publishing Cloud Native packages.
Introduction
This chart bootstraps an Artifact Hub deployment on a Kubernetes cluster using the Helm package manager.
INSTALL
TEMPLATES
DEFAULT VALUES
VALUES SCHEMA
CHANGELOG
SCREENSHOTS

Changelog


artifacthub.io
Back to "artifact hub" results
Changelog
1.20.0
11 Oct, 2024
1.19.0
27 Jun, 2024
1.18.0
18 Apr, 2024
1.17.0
15 Jan, 2024
1.20.0
Contains security updates
Released 5 months ago
+ ADDED Support for Radius recipes
+ ADDED Display signed badge for Inspektor Gadget artifacts
+ ADDED Populate chart labels for all resources
+ ADDED Allow adding extra containers to the hub pod from the chart
CHANGED Update db migration script to support pg_partman 5
CHANGED Banner frame style
GET MARKDOWN
CLOSE
Artifact
Artifact Hub is a web
Introduction
This chart bootstraps an Artifact Hub deployment on a Kubernetes cluster using the Helm package manager.
INSTALL
CHANGELOG

Updatecli

Continuously update everything

Get started

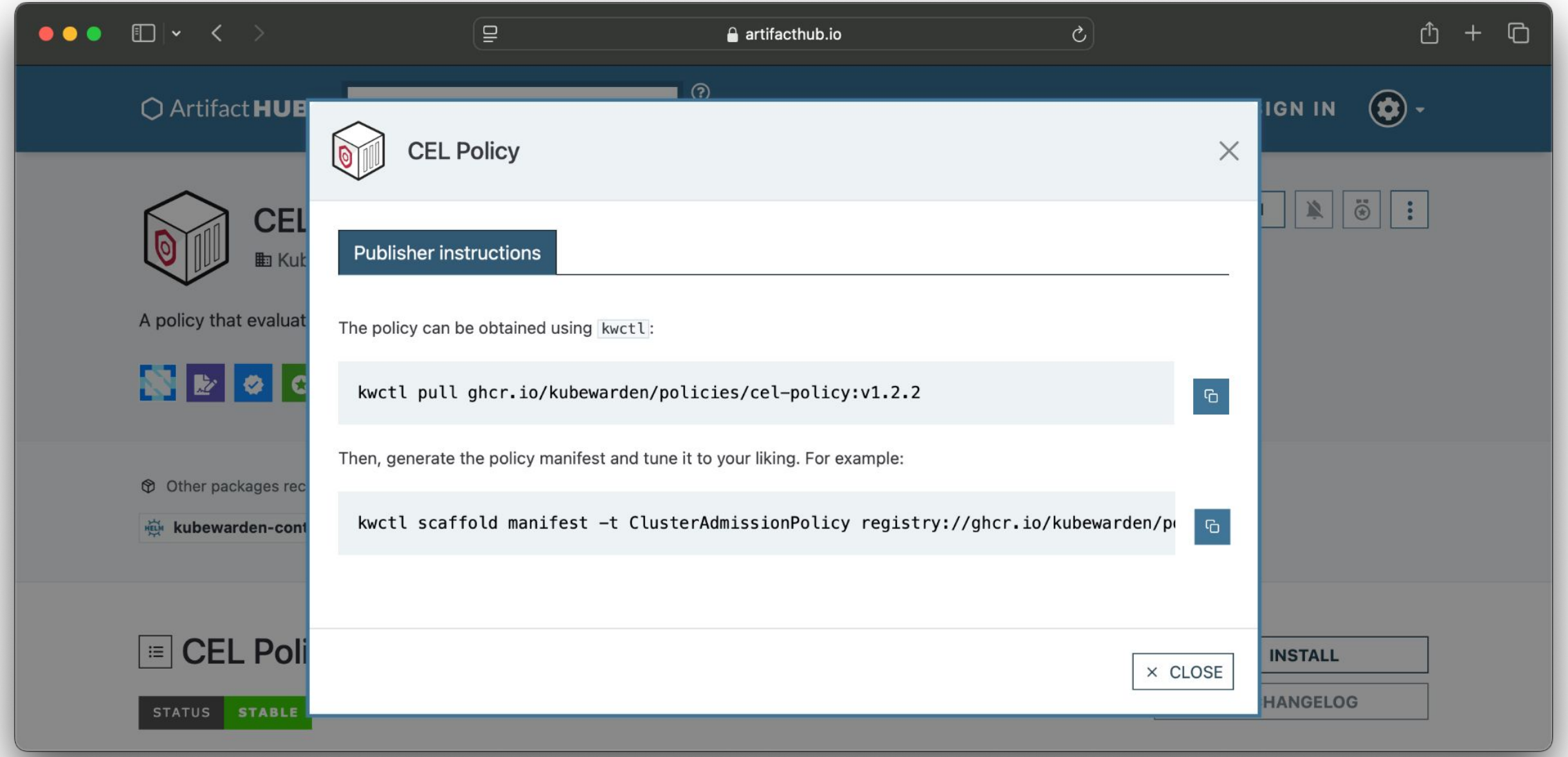
Open-source Apache-2.0 Licensed.

Custom Install Instructions

artifacthub-pkg.yml:

```
install: |
  The policy can be obtained using [`kwctl`](https://github.com/kubewarden/kwctl):
  ```console
  kwctl pull ghcr.io/kubewarden/policies/cel-policy:v1.2.2
  ```
  Then, generate the policy manifest and tune it to your liking. For example:
  ```console
  kwctl scaffold manifest -t ClusterAdmissionPolicy registry://ghcr.io/kubewarden/policies/cel-policy:v1.2.2
  ```
```

Custom Install Directions



Providers Name

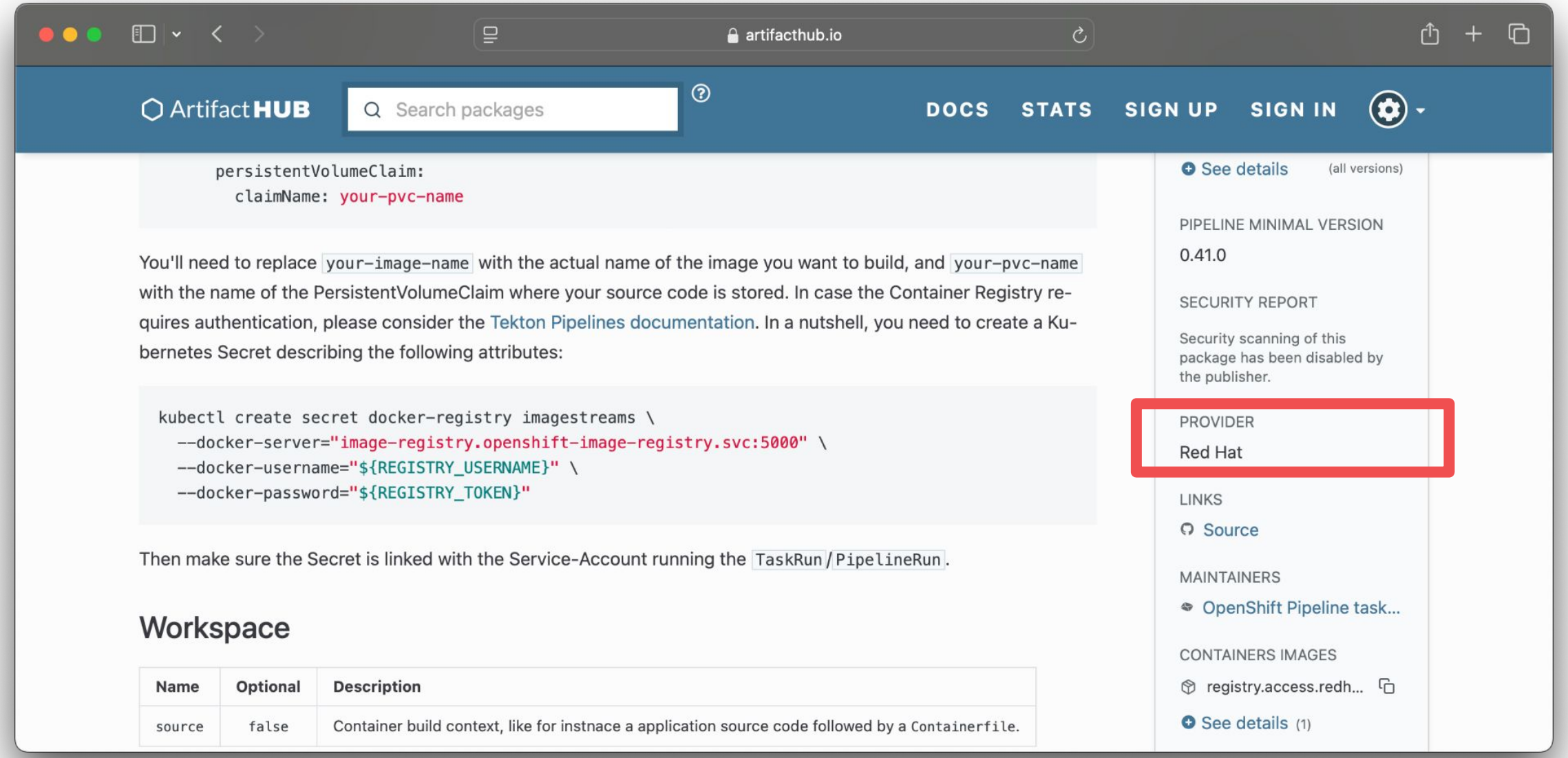
artifacthub-pkg.yml:

```yaml
provider:
  name: kubewarden
```

Manifest annotation:

```yaml
annotations:
  artifacthub.io/provider: Eclipse Foundation
```

Providers Name



Recommendations

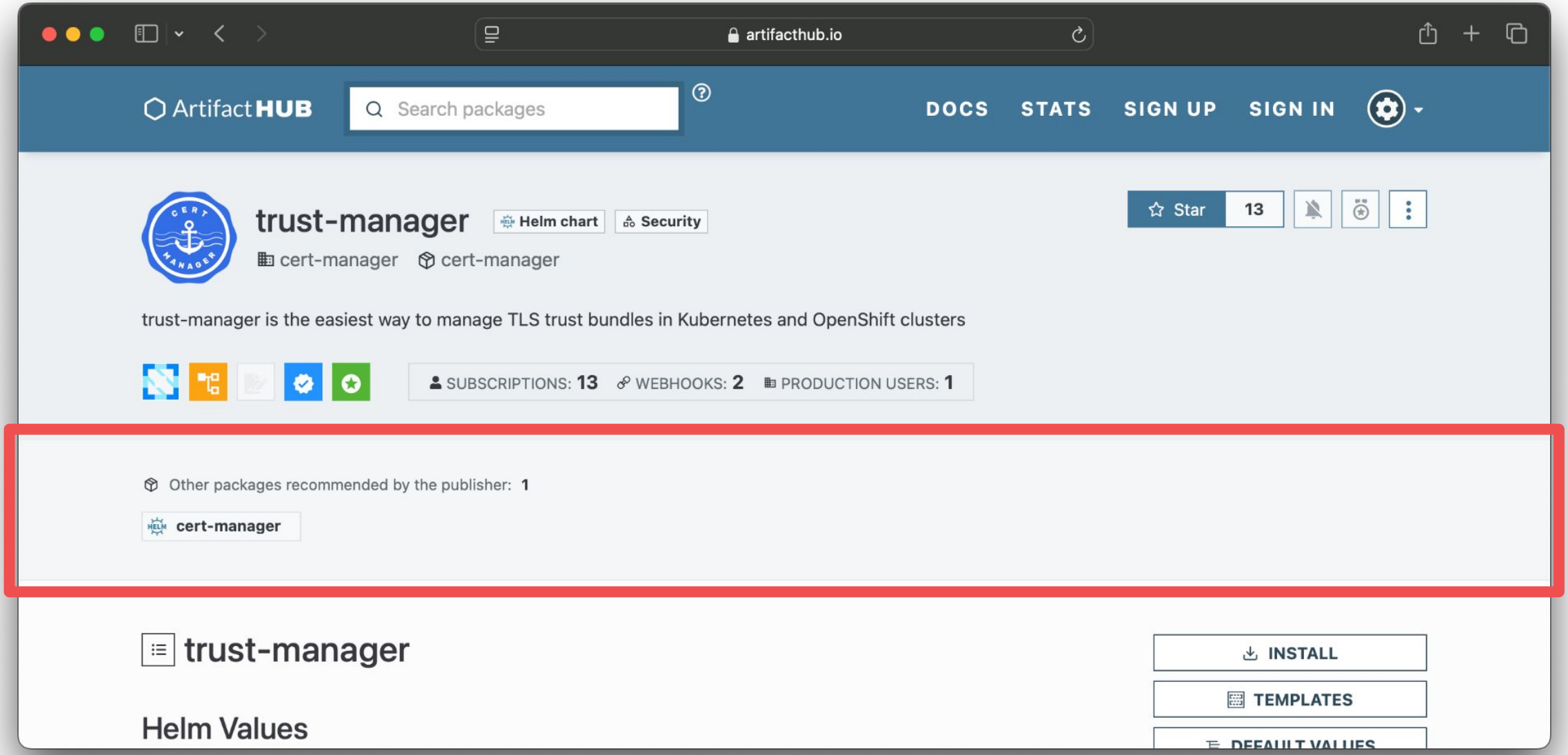
artifacthub-pkg.yml:

```yaml
recommendations:
  - url: https://artifacthub.io/packages/helm/cert-manager/cert-manager
```

Manifest annotation:

```yaml
annotations:
  artifacthub.io/recommendations: |
    - url: https://artifacthub.io/packages/helm/cert-manager/cert-manager
```

Recommendations



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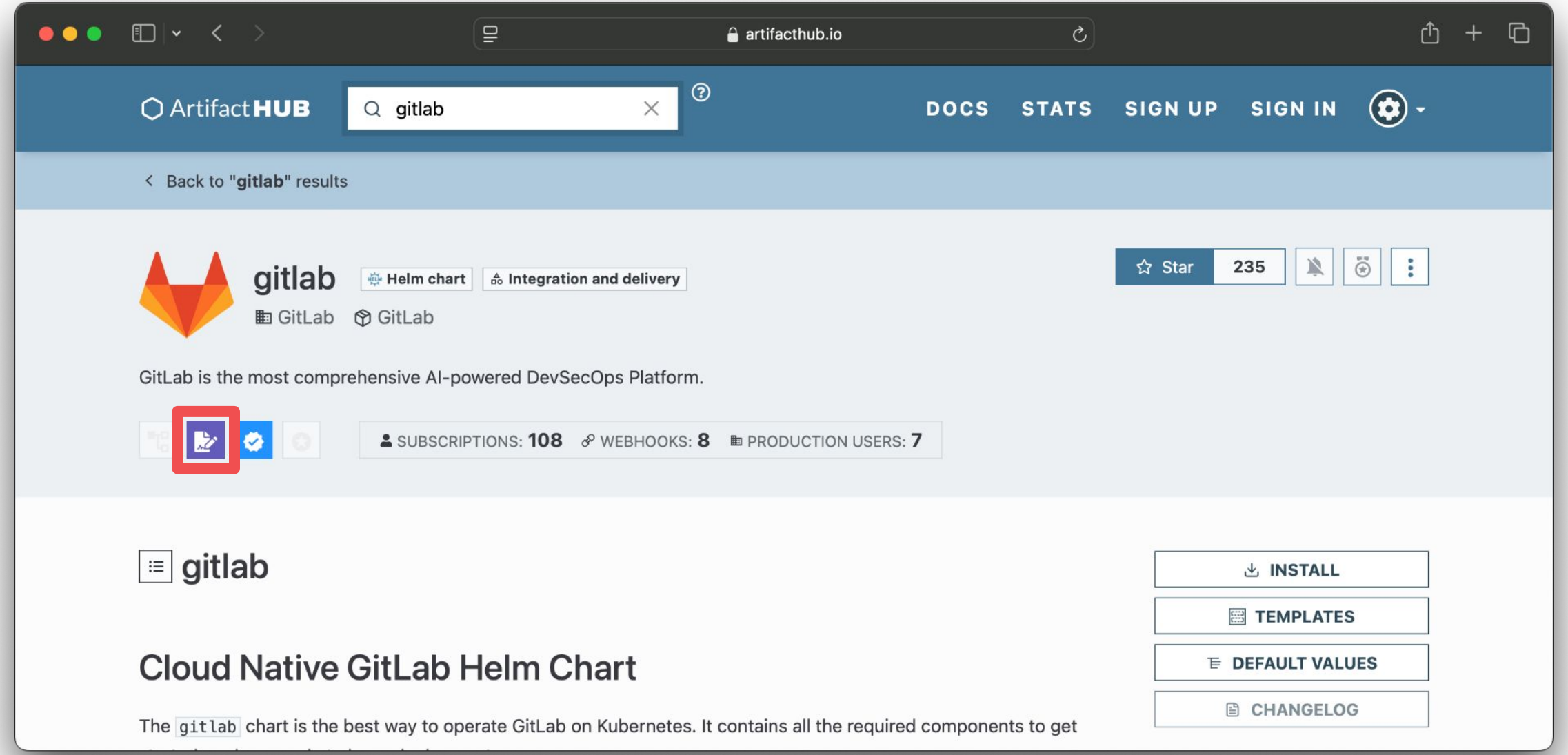
Signing Artifacts

Software Provenance

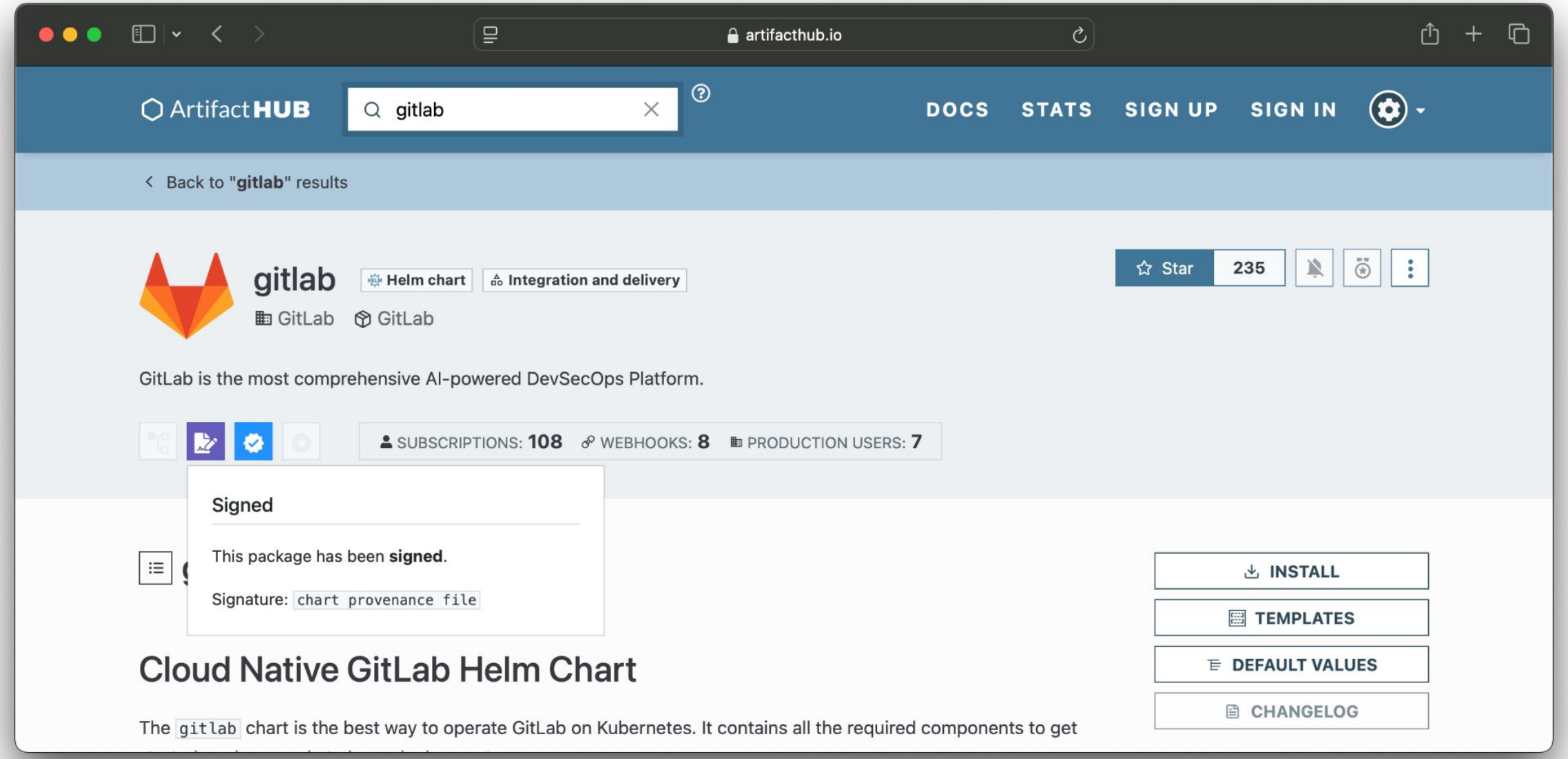
> Software provenance refers to the origin and history of a piece of software.
>
> It's the **documented record** of where software came from, **how it was built**, and who was involved in its creation. Essentially, it's about establishing **trust** and transparency in the software supply chain.
>
> – Gemini (AI)

Authenticity and **Integrity**

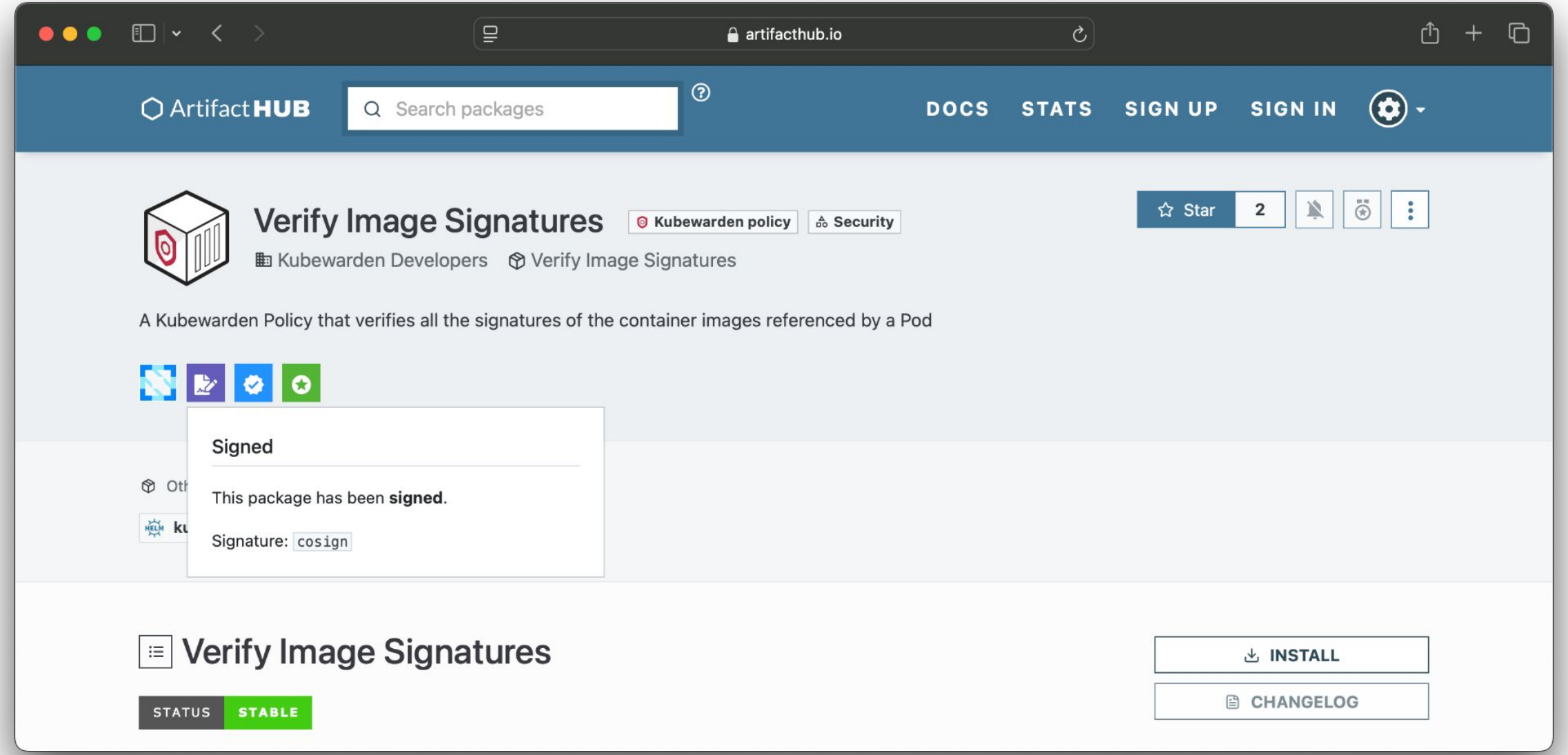
Signing


artifacthub.io
ArtifactHUB
gitlab
DOCS
STATS
SIGN UP
SIGN IN
Back to "gitlab" results
gitlab
Helm chart
Integration and delivery
GitLab
GitLab
Star
235
GitLab is the most comprehensive AI-powered DevSecOps Platform.
SUBSCRIPTIONS: 108
WEBHOOKS: 8
PRODUCTION USERS: 7
gitlab
INSTALL
TEMPLATES
DEFAULT VALUES
CHANGELOG
Cloud Native GitLab Helm Chart
The gitlab chart is the best way to operate GitLab on Kubernetes. It contains all the required components to get

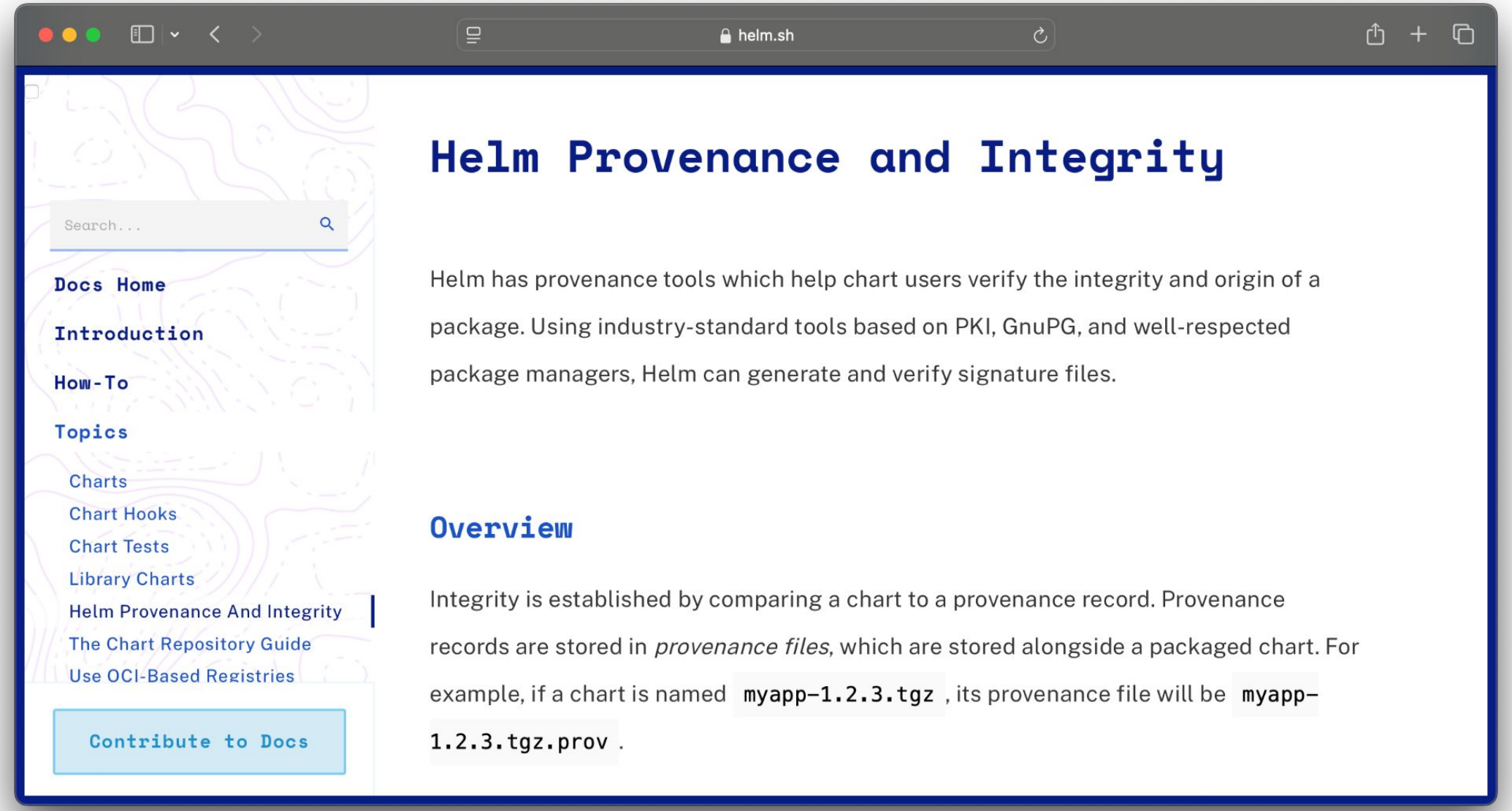
Signing


artifacthub.io
ArtifactHUB
gitlab
DOCS
STATS
SIGN UP
SIGN IN
Back to "gitlab" results
gitlab
Helm chart
Integration and delivery
GitLab
GitLab
Star
235
GitLab is the most comprehensive AI-powered DevSecOps Platform.
SUBSCRIPTIONS: 108
WEBHOOKS: 8
PRODUCTION USERS: 7
Signed
This package has been signed.
Signature: chart provenance file
INSTALL
TEMPLATES
DEFAULT VALUES
CHANGELOG
Cloud Native GitLab Helm Chart
The gitlab chart is the best way to operate GitLab on Kubernetes. It contains all the required components to get

Signing


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
SIGN UP
SIGN IN
Verify Image Signatures
Kubewarden policy
Security
Kubewarden Developers
Verify Image Signatures
Star
2
A Kubewarden Policy that verifies all the signatures of the container images referenced by a Pod
Signed
This package has been signed.
Signature: cosign
Verify Image Signatures
INSTALL
CHANGELOG
STATUS
STABLE

Helm Signing

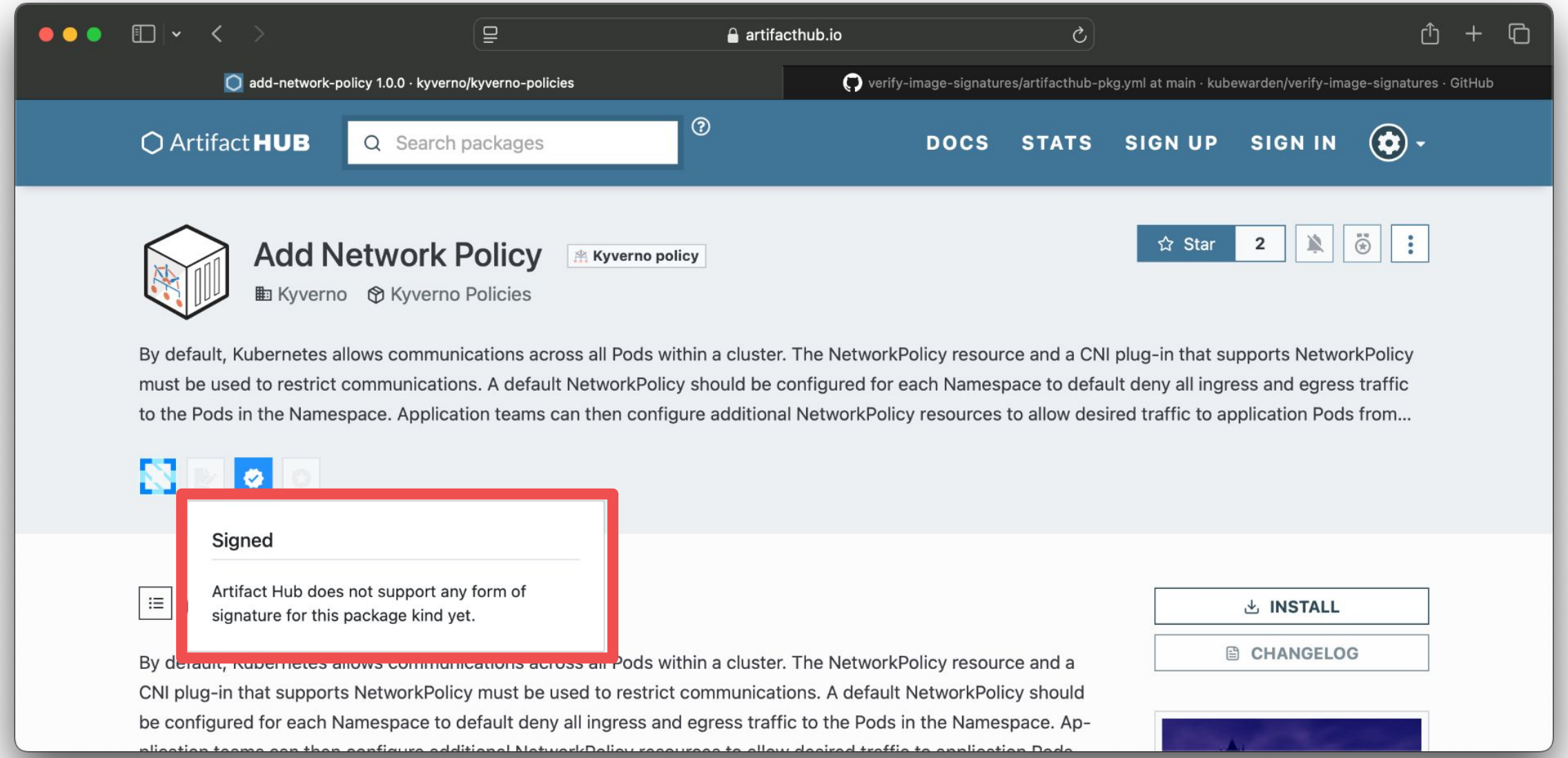


Helm Signing

Chart.yaml

```yaml
annotations:
  artifacthub.io/signKey: |
    fingerprint: C874011F0AB405110D02105534365D9472D7468F
    url: https://keybase.io/hashicorp/pgp_keys.asc
```

Not Everything Supports Signing



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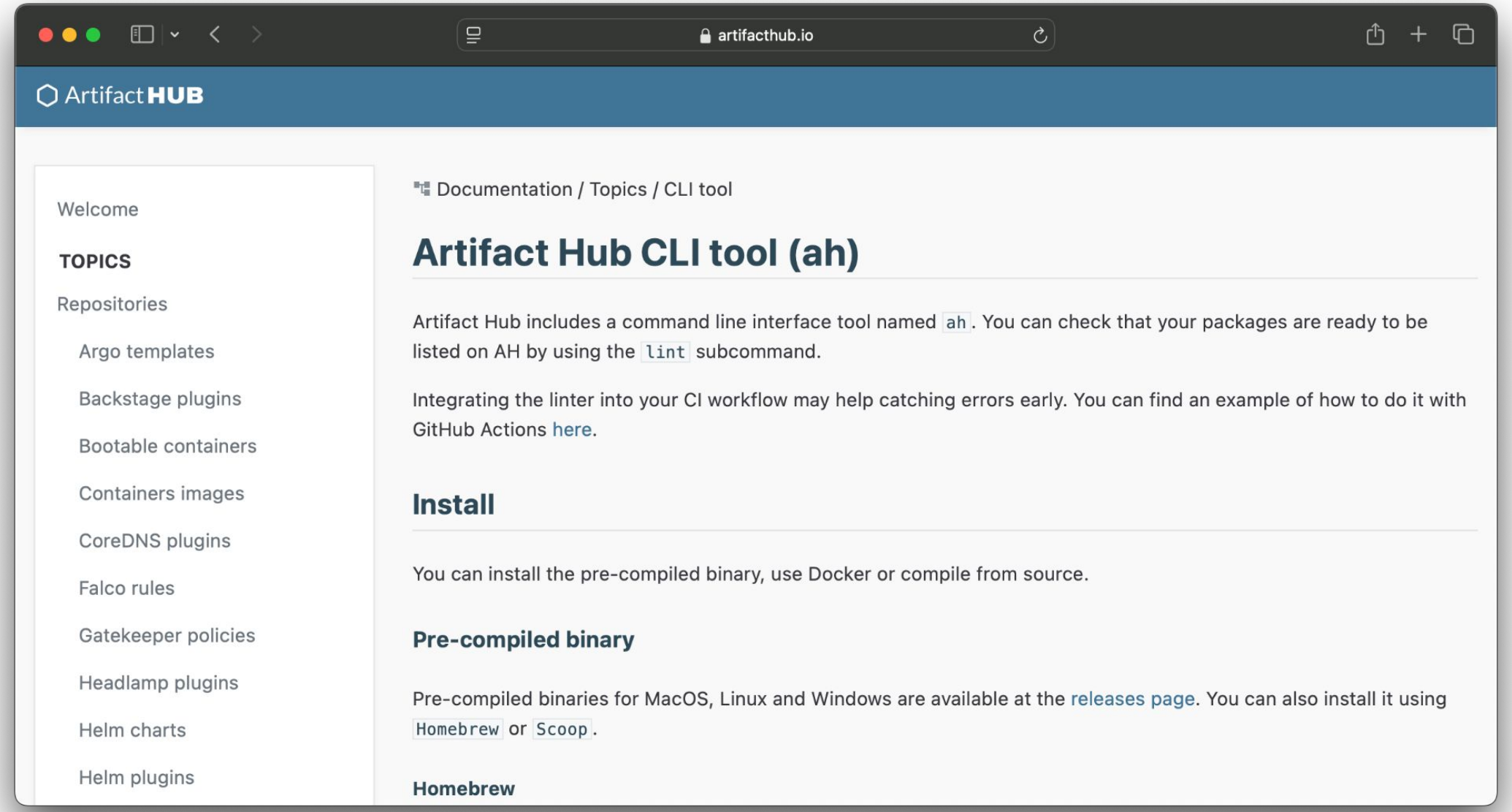
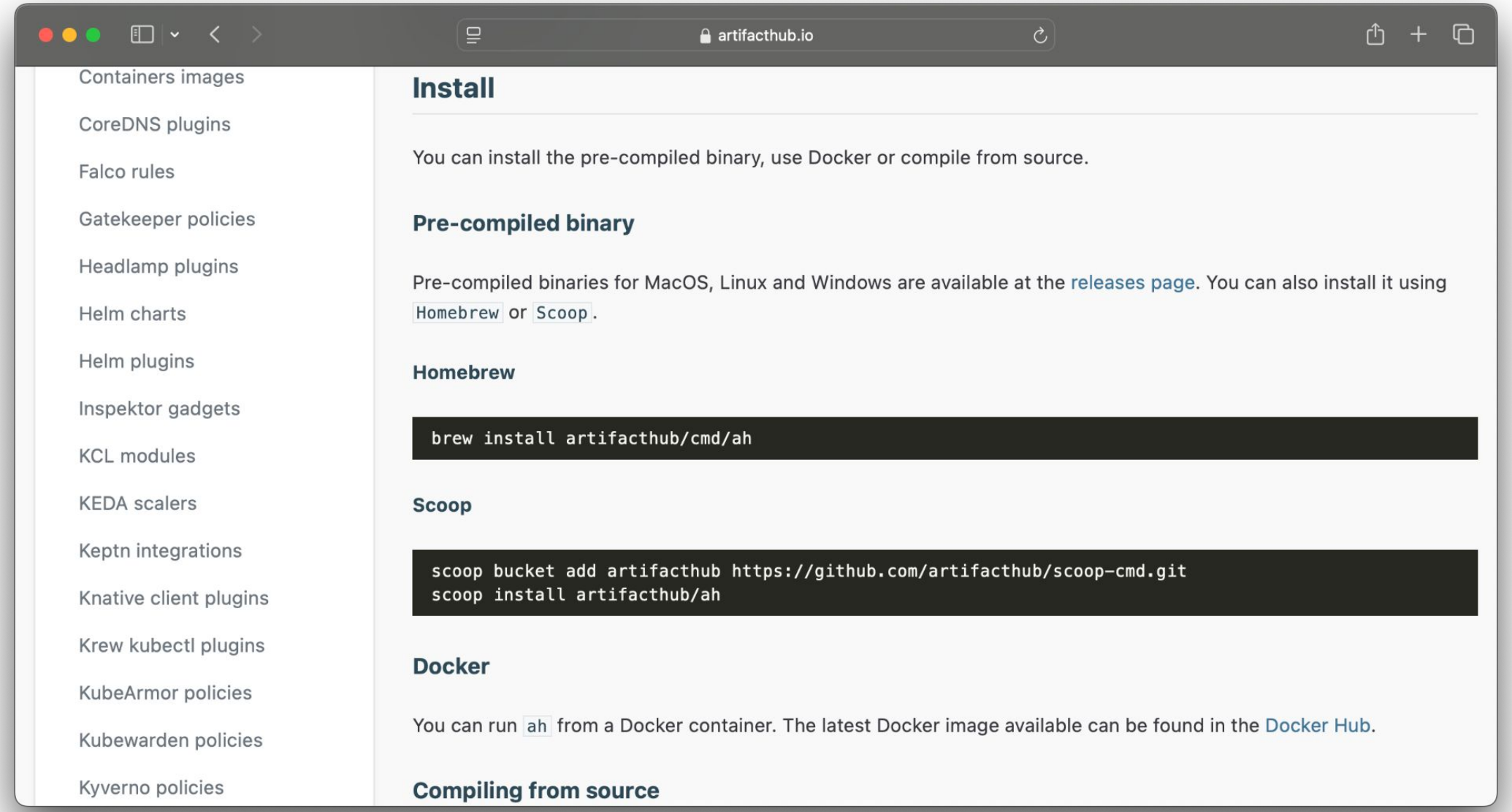
Linting & Learning

CLI


artifacthub.io
Artifact HUB
Welcome
TOPICS
Repositories
Argo templates
Backstage plugins
Bootable containers
Containers images
CoreDNS plugins
Falco rules
Gatekeeper policies
Headlamp plugins
Helm charts
Helm plugins
Documentation / Topics / CLI tool
Artifact Hub CLI tool (ah)
Artifact Hub includes a command line interface tool named ah. You can check that your packages are ready to be listed on AH by using the lint subcommand.
Integrating the linter into your CI workflow may help catching errors early. You can find an example of how to do it with GitHub Actions here.
Install
You can install the pre-compiled binary, use Docker or compile from source.
Pre-compiled binary
Pre-compiled binaries for MacOS, Linux and Windows are available at the releases page. You can also install it using Homebrew or Scoop.
Homebrew

CLI Install


artifacthub.io
Containers images
CoreDNS plugins
Falco rules
Gatekeeper policies
Headlamp plugins
Helm charts
Helm plugins
Inspektor gadgets
KCL modules
KEDA scalers
Keptn integrations
Knative client plugins
Krew kubectl plugins
KubeArmor policies
Kubewarden policies
Kyverno policies
Install
You can install the pre-compiled binary, use Docker or compile from source.
Pre-compiled binary
Pre-compiled binaries for MacOS, Linux and Windows are available at the releases page. You can also install it using Homebrew or Scoop.
Homebrew
brew install artifacthub/cmd/ah
Scoop
scoop bucket add artifacthub https://github.com/artifacthub/scoop-cmd.git
scoop install artifacthub/ah
Docker
You can run ah from a Docker container. The latest Docker image available can be found in the Docker Hub.
Compiling from source

Linting


```
$ ah
Artifact Hub command line tool

Usage:
  ah [command]

Available Commands:
  help        Help about any command
  lint        Check the repository's packages are ready for Artifact Hub
  version     Print version information

Flags:
  -h, --help   help for ah

Use "ah [command] --help" for more information about a command.
```

Linting


```
$ helm create ah-demo
Creating ah-demo
```

Linting

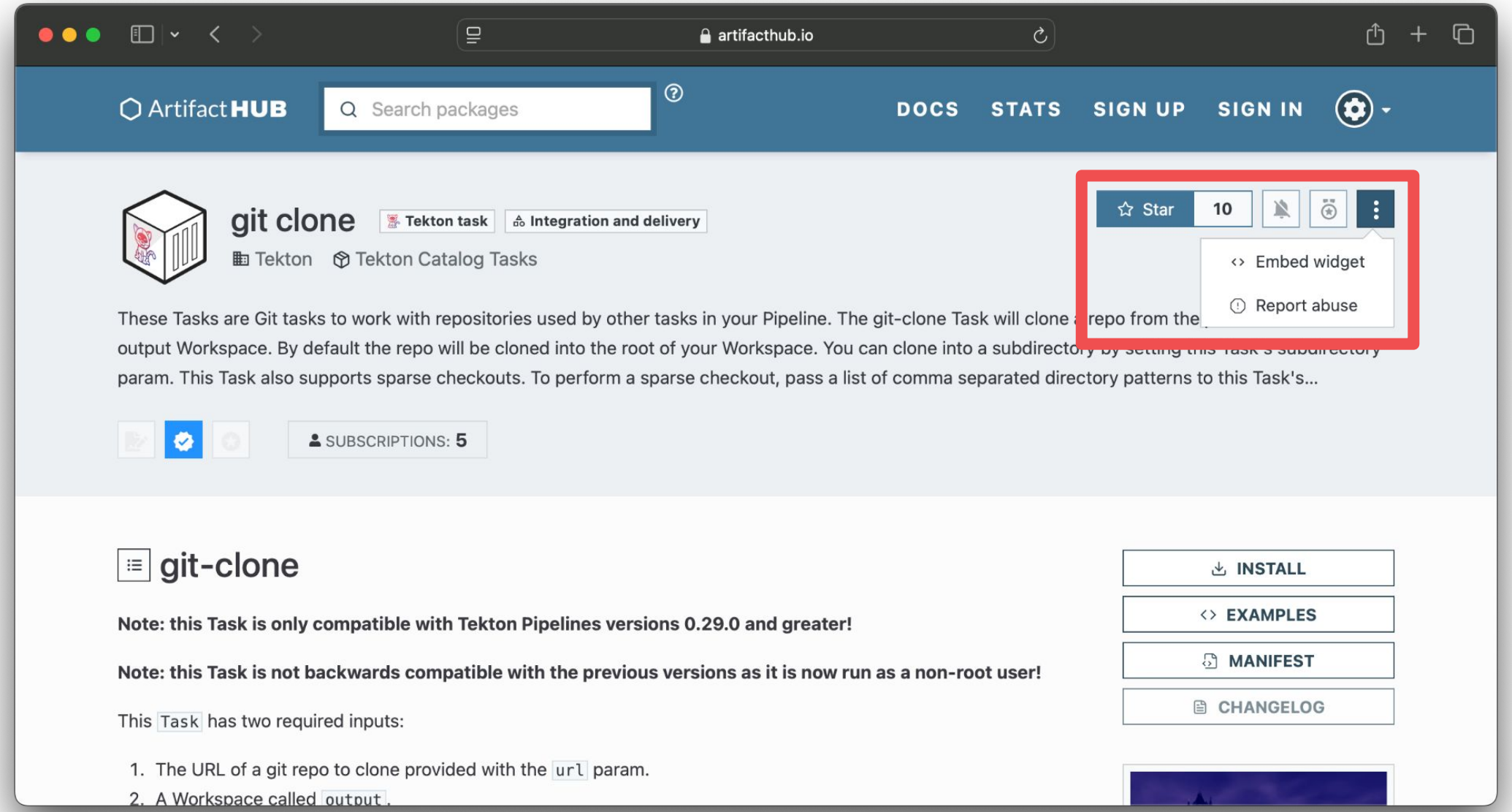

```
$ ah lint --kind helm --path ah-demo

──────────────────────────────────────────────────────────────────────────────
√ ah-demo 0.1.0 (ah-demo)
──────────────────────────────────────────────────────────────────────────────

Package lint SUCCEEDED!

√ Name: ah-demo
! Display name: *** NOT PROVIDED ***
√ Version: 0.1.0
√ App version: 1.16.0
√ Description: A Helm chart for Kubernetes
! License: *** NOT PROVIDED ***
! Logo URL: *** NOT PROVIDED ***
! Home URL: *** NOT PROVIDED ***
√ Deprecated: false
√ Pre-release: false
√ Contains security updates: false
! Provider: *** NOT PROVIDED ***
! Readme: *** NOT PROVIDED ***
! Keywords: *** NOT PROVIDED ***
! Links: *** NOT PROVIDED ***
! Maintainers: *** NOT PROVIDED ***
√ Containers images:
  - Name:  | Image: nginx:1.16.0
! Changes: *** NOT PROVIDED ***
! Recommendations: *** NOT PROVIDED ***
! Screenshots: *** NOT PROVIDED ***
√ Operator: false
! Sign key: *** NOT PROVIDED ***
! Values schema: *** NOT PROVIDED ***

──────────────────────────────────────────────────────────────────────────────

1 package(s) found, 0 package(s) with errors
```

Linting

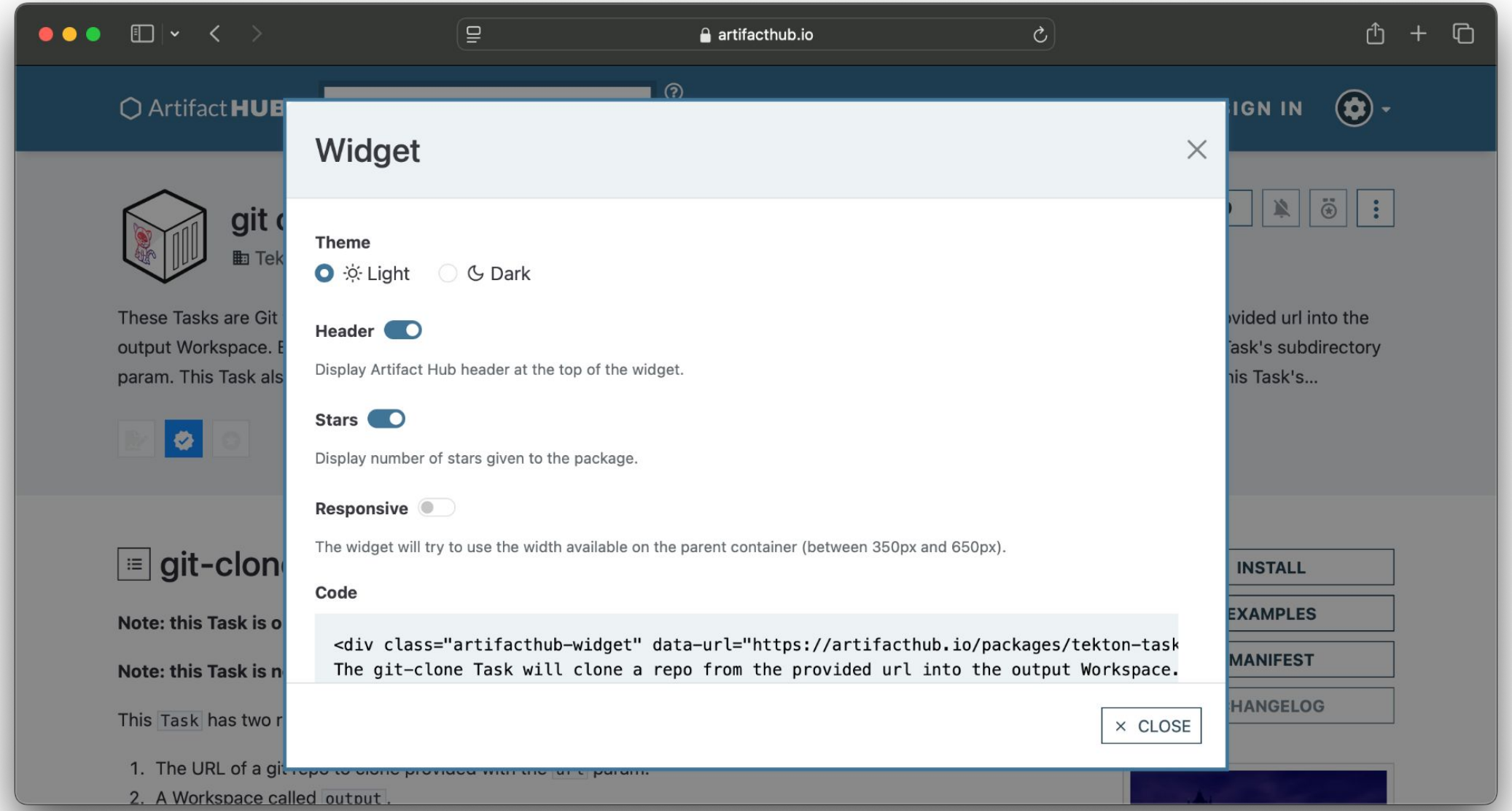

```
$ ah lint --kind kubewarden

---------------------------------------------------------------------------------------
√ cel-policy 1.2.2 (.)
---------------------------------------------------------------------------------------

Package lint SUCCEEDED!

√ Name: cel-policy
√ Display name: CEL Policy
√ Version: 1.2.2
! App version: *** NOT PROVIDED ***
√ Description: A policy that evaluates CEL expressions
√ License: Apache-2.0
! Logo URL: *** NOT PROVIDED ***
√ Home URL: https://github.com/kubewarden/cel-policy
√ Deprecated: false
√ Pre-release: false
√ Contains security updates: false
√ Provider: kubewarden
√ Readme: PROVIDED
√ Keywords:
  - compliance
  - CEL
  - ValidatingAdmissionPolicy
  - Common Expression Language
√ Links:
  - Name: policy | URL: https://github.com/kubewarden/cel-policy/releases/download/v1.2.2/policy.wasm
  - Name: source | URL: https://github.com/kubewarden/cel-policy
√ Maintainers:
  - Name: Kubewarden developers | Email: cncf-kubewarden-maintainers@lists.cncf.io
√ Containers images:
  - Name: policy | Image: ghcr.io/kubewarden/policies/cel-policy:v1.2.2
! Changes: *** NOT PROVIDED ***
√ Recommendations:
  - https://artifacthub.io/packages/helm/kubewarden/kubewarden-controller
! Screenshots: *** NOT PROVIDED ***
√ Operator: false
√ Install: PROVIDED

---------------------------------------------------------------------------------------

1 package(s) found, 0 package(s) with errors
```

Embedding

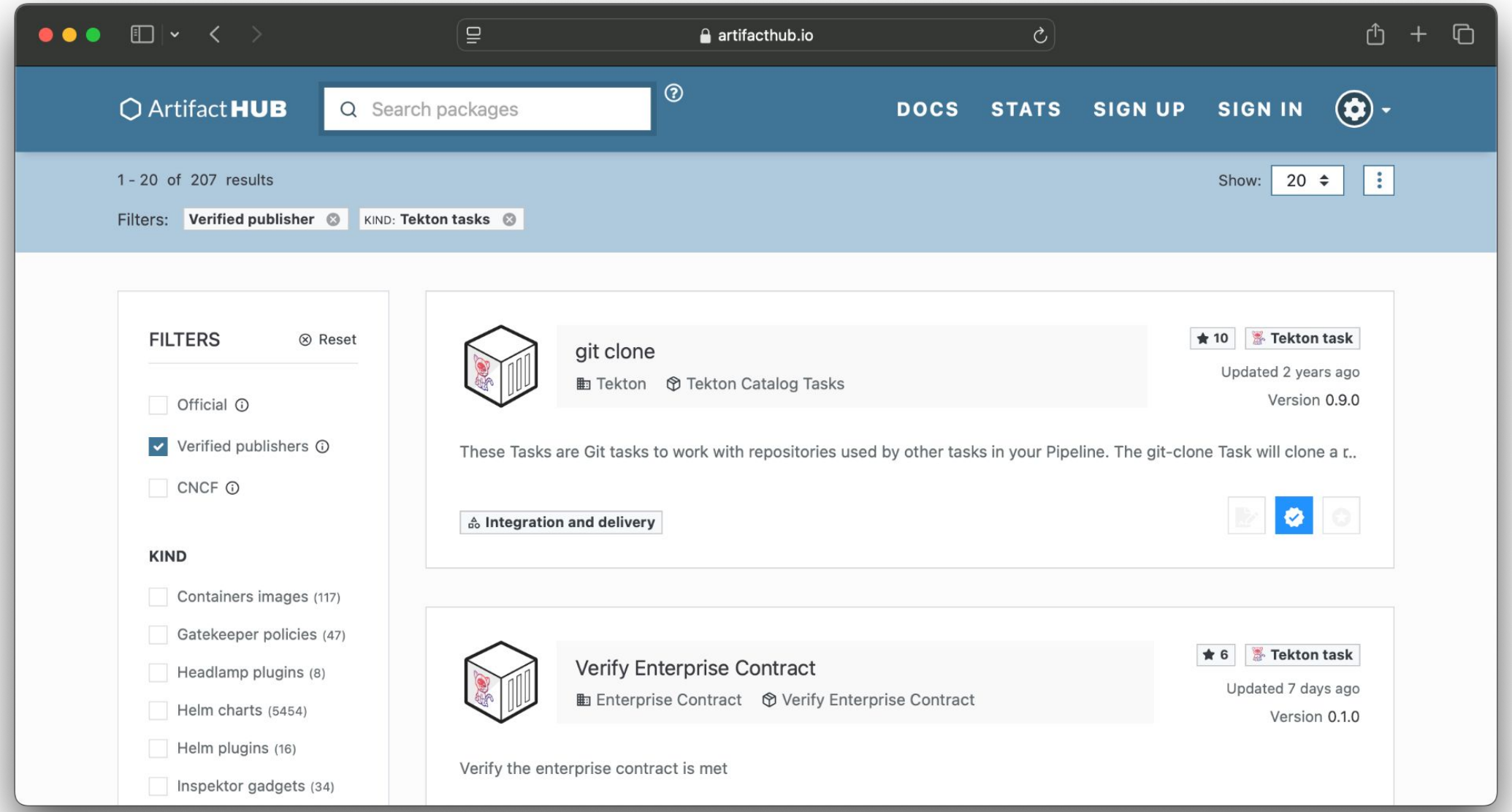
Embedding


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
SIGN UP
SIGN IN
git clone
Tekton task
Integration and delivery
Tekton
Tekton Catalog Tasks
Star
10
Embed widget
Report abuse
These Tasks are Git tasks to work with repositories used by other tasks in your Pipeline. The git-clone Task will clone a repo from the
output Workspace. By default the repo will be cloned into the root of your Workspace. You can clone into a subdirectory by
param. This Task also supports sparse checkouts. To perform a sparse checkout, pass a list of comma separated directory patterns to this Task's...
SUBSCRIPTIONS: 5
git-clone
INSTALL
EXAMPLES
MANIFEST
CHANGELOG
Note: this Task is only compatible with Tekton Pipelines versions 0.29.0 and greater!
Note: this Task is not backwards compatible with the previous versions as it is now run as a non-root user!
This Task has two required inputs:
1. The URL of a git repo to clone provided with the url param.
2. A Workspace called output.

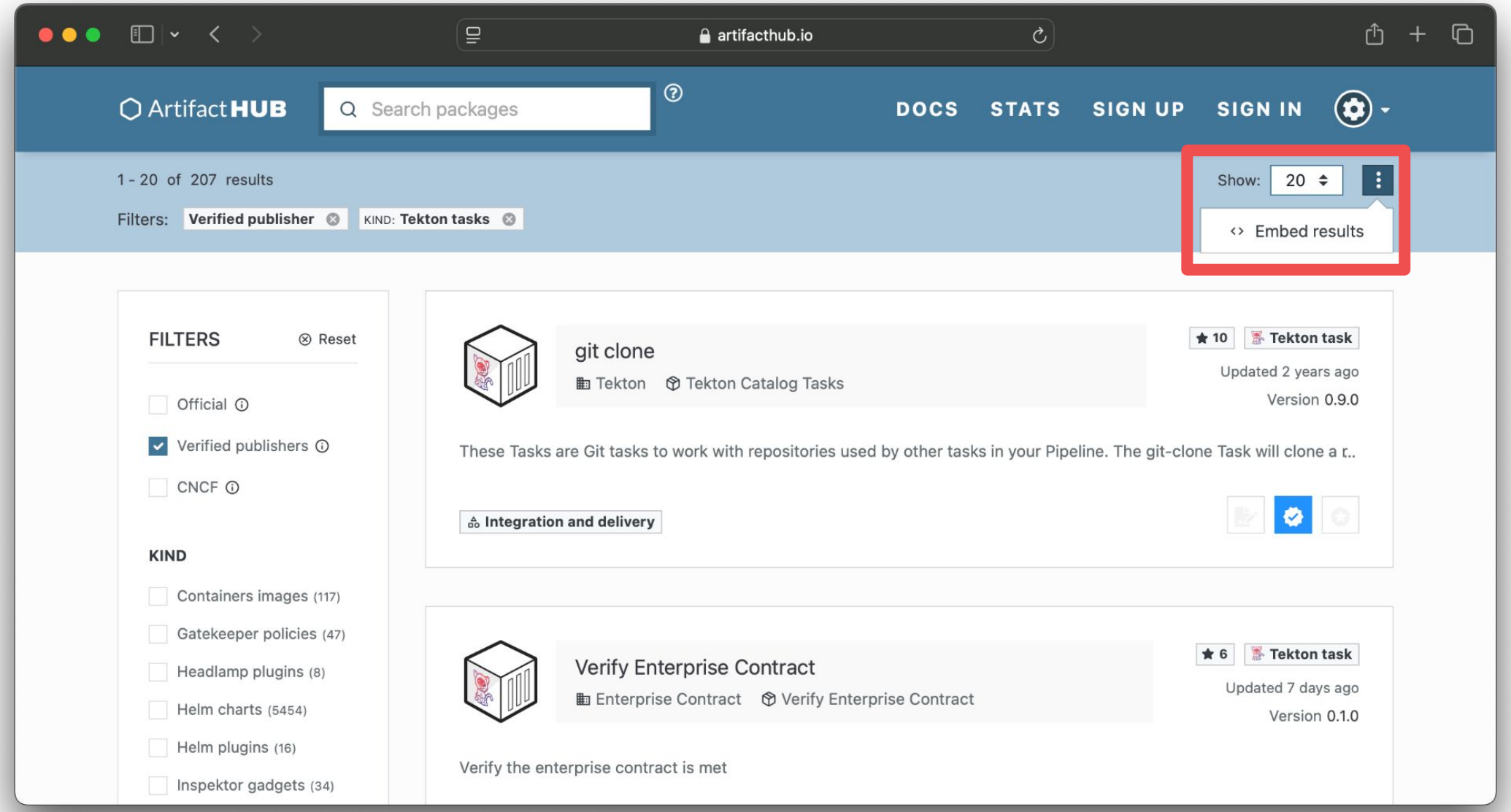
Embedding


artifacthub.io
Artifact HUB
SIGN IN
Widget
Theme
Light
Dark
Header
Display Artifact Hub header at the top of the widget.
Stars
Display number of stars given to the package.
Responsive
The widget will try to use the width available on the parent container (between 350px and 650px).
Code
<div class="artifacthub-widget" data-url="https://artifacthub.io/packages/tekton-task
The git-clone Task will clone a repo from the provided url into the output Workspace.
CLOSE
These Tasks are Git
output Workspace.
param. This Task als
git-clon
Note: this Task is o
Note: this Task is n
This Task has two r
1. The URL of a git
2. A Workspace called output.
INSTALL
EXAMPLES
MANIFEST
HANGELOG

Embedding


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
SIGN UP
SIGN IN
1 - 20 of 207 results
Show: 20
Filters: Verified publisher
KIND: Tekton tasks
FILTERS
Reset
Official
Verified publishers
CNCF
KIND
Containers images (117)
Gatekeeper policies (47)
Headlamp plugins (8)
Helm charts (5454)
Helm plugins (16)
Inspektor gadgets (34)
git clone
Tekton
Tekton Catalog Tasks
10
Tekton task
Updated 2 years ago
Version 0.9.0
These Tasks are Git tasks to work with repositories used by other tasks in your Pipeline. The git-clone Task will clone a r..
Integration and delivery
Verify Enterprise Contract
Enterprise Contract
Verify Enterprise Contract
6
Tekton task
Updated 7 days ago
Version 0.1.0
Verify the enterprise contract is met

Embedding


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
SIGN UP
SIGN IN
1 - 20 of 207 results
Filters:
Verified publisher
KIND: Tekton tasks
Show:
20
Embed results
FILTERS
Reset
Official
Verified publishers
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KIND
Containers images (117)
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Tekton
Tekton Catalog Tasks
10
Tekton task
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Integration and delivery
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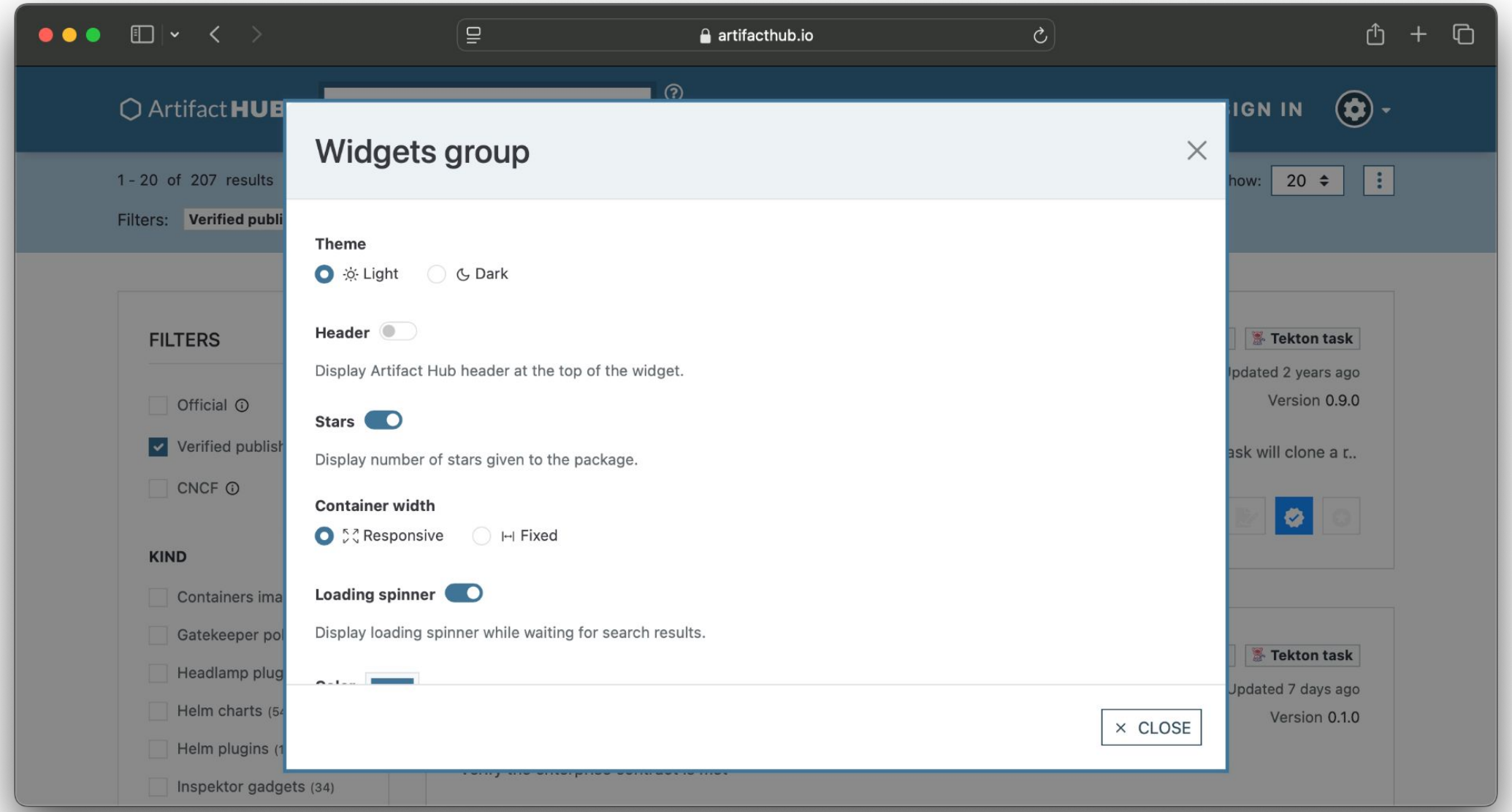
Enterprise Contract
Verify Enterprise Contract
6
Tekton task
Updated 7 days ago
Version 0.1.0
Verify the enterprise contract is met

Embedding


artifacthub.io
Widgets group
Theme
Light
Dark
Header
Display Artifact Hub header at the top of the widget.
Stars
Display number of stars given to the package.
Container width
Responsive
Fixed
Loading spinner
Display loading spinner while waiting for search results.
CLOSE
FILTERS
Official
Verified publish
CNCF
KIND
Containers ima
Gatekeeper pol
Headlamp plug
Helm charts
Helm plugins
Inspektor gadgets (34)
Tekton task
Updated 2 years ago
Version 0.9.0
Tekton task
Updated 7 days ago
Version 0.1.0

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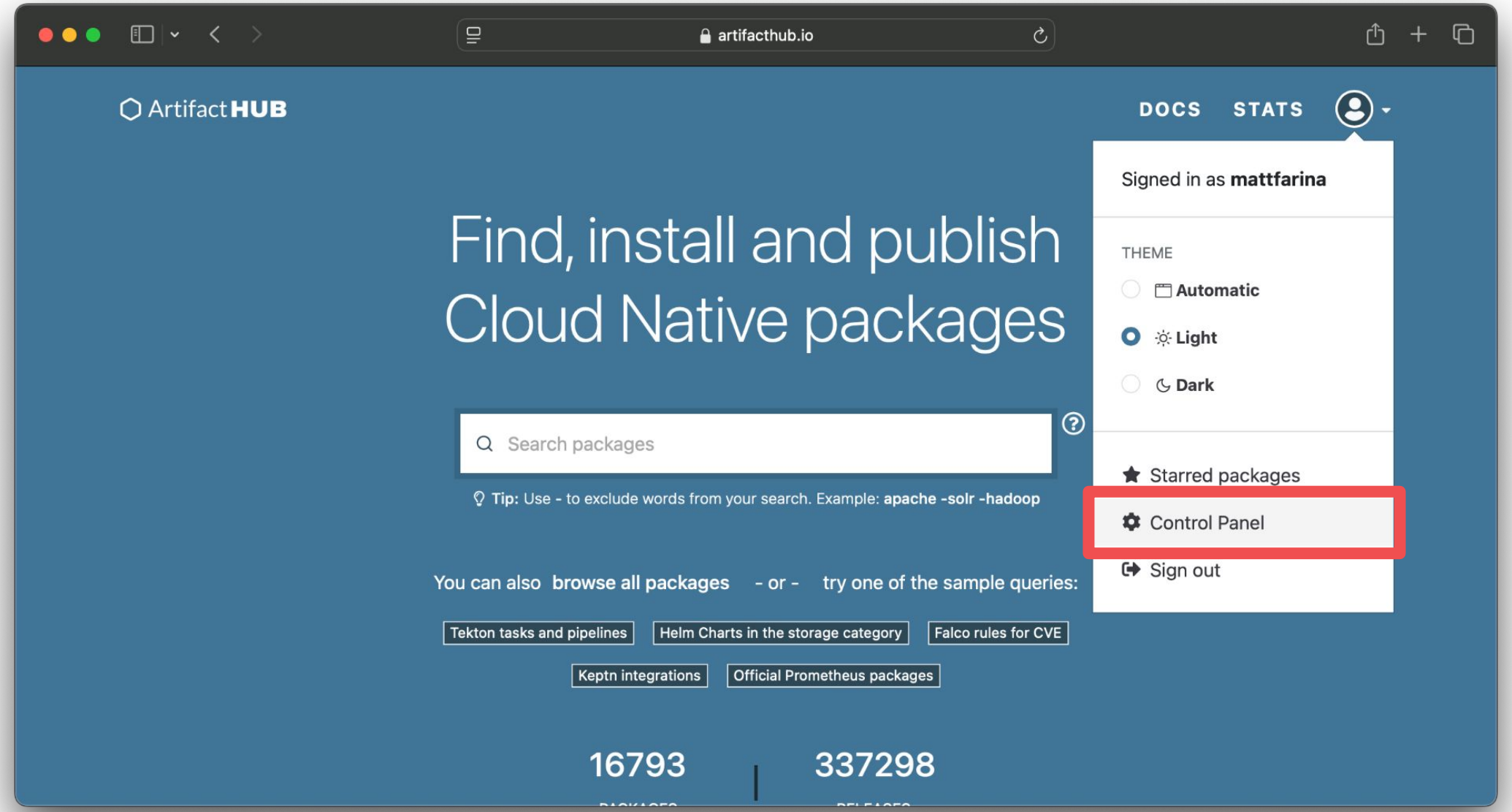
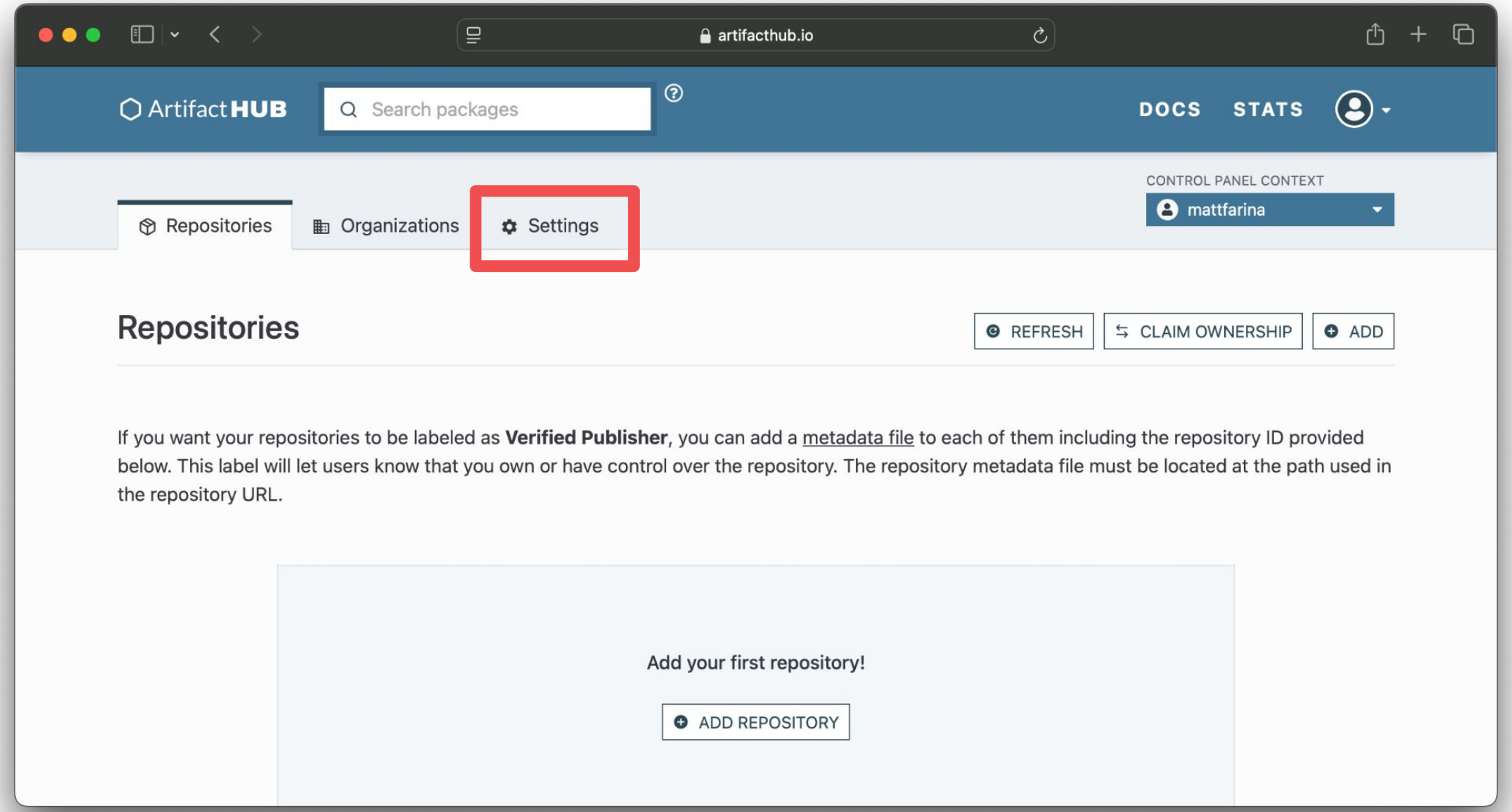
Europe 2025

Webhooks

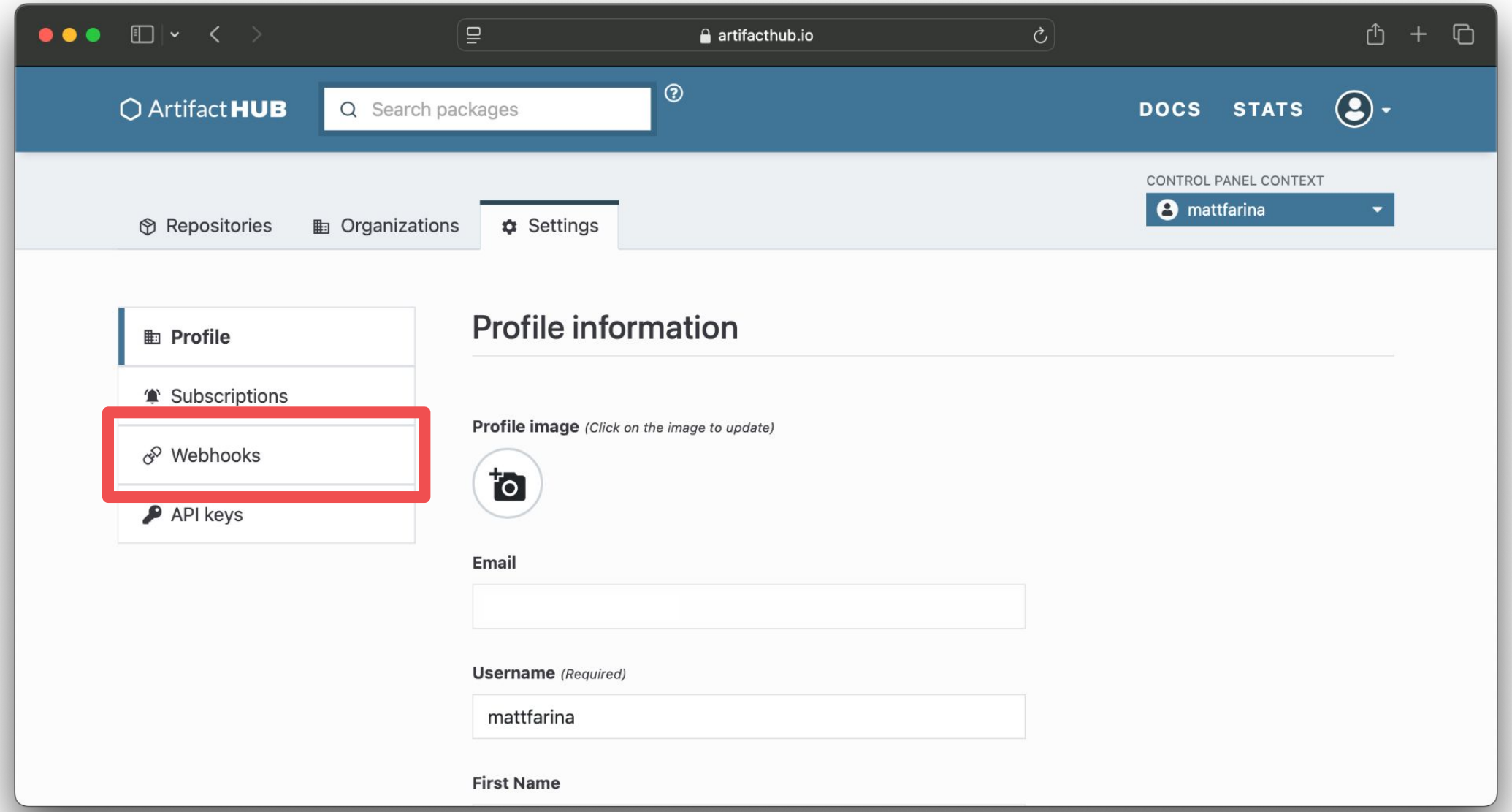
Webhooks


artifacthub.io
ArtifactHUB
DOCS
STATS
Signed in as mattfarina
THEME
Automatic
Light
Dark
Starred packages
Control Panel
Sign out
Find, install and publish Cloud Native packages
Search packages
Tip: Use - to exclude words from your search. Example: apache -solr -hadoop
You can also browse all packages - or - try one of the sample queries:
Tekton tasks and pipelines
Helm Charts in the storage category
Falco rules for CVE
Keptn integrations
Official Prometheus packages
16793
337298

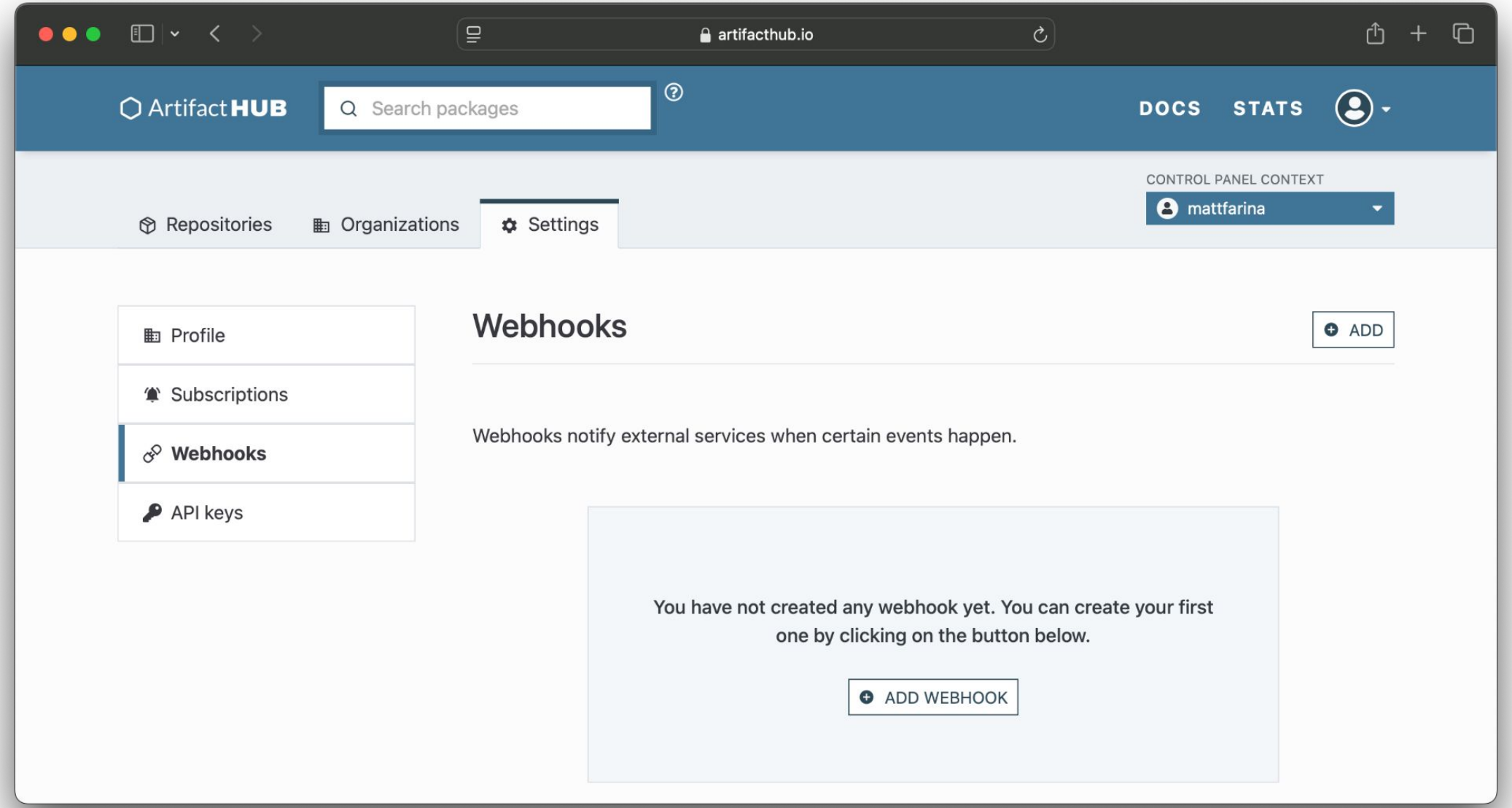
Webhooks


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Organizations
Settings
Repositories
REFRESH
CLAIM OWNERSHIP
ADD
If you want your repositories to be labeled as Verified Publisher, you can add a metadata file to each of them including the repository ID provided below. This label will let users know that you own or have control over the repository. The repository metadata file must be located at the path used in the repository URL.
Add your first repository!
ADD REPOSITORY

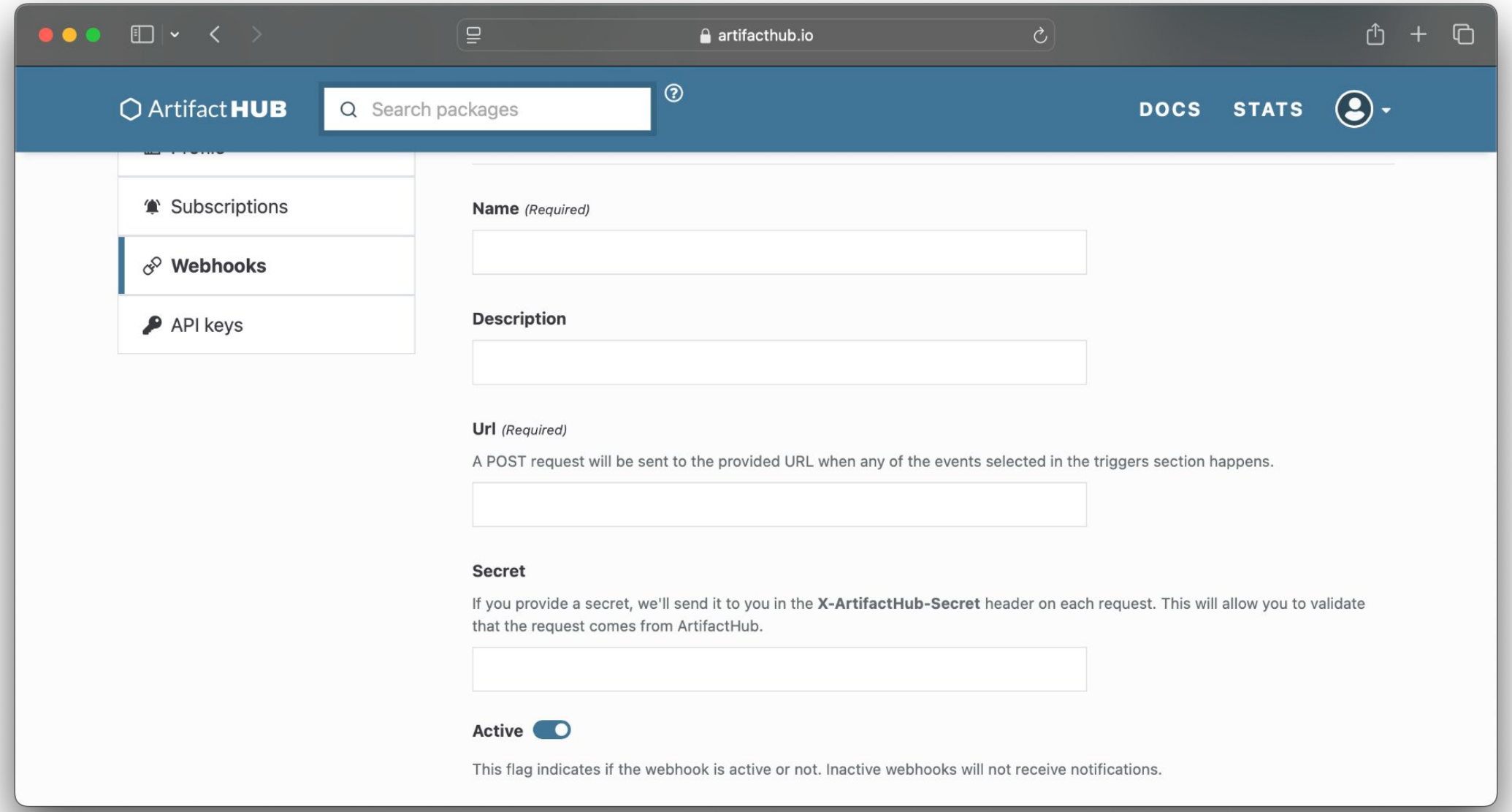
Webhooks


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Organizations
Settings
Profile
Subscriptions
Webhooks
API keys
Profile information
Profile image (Click on the image to update)
Email
Username (Required)
mattfarina
First Name

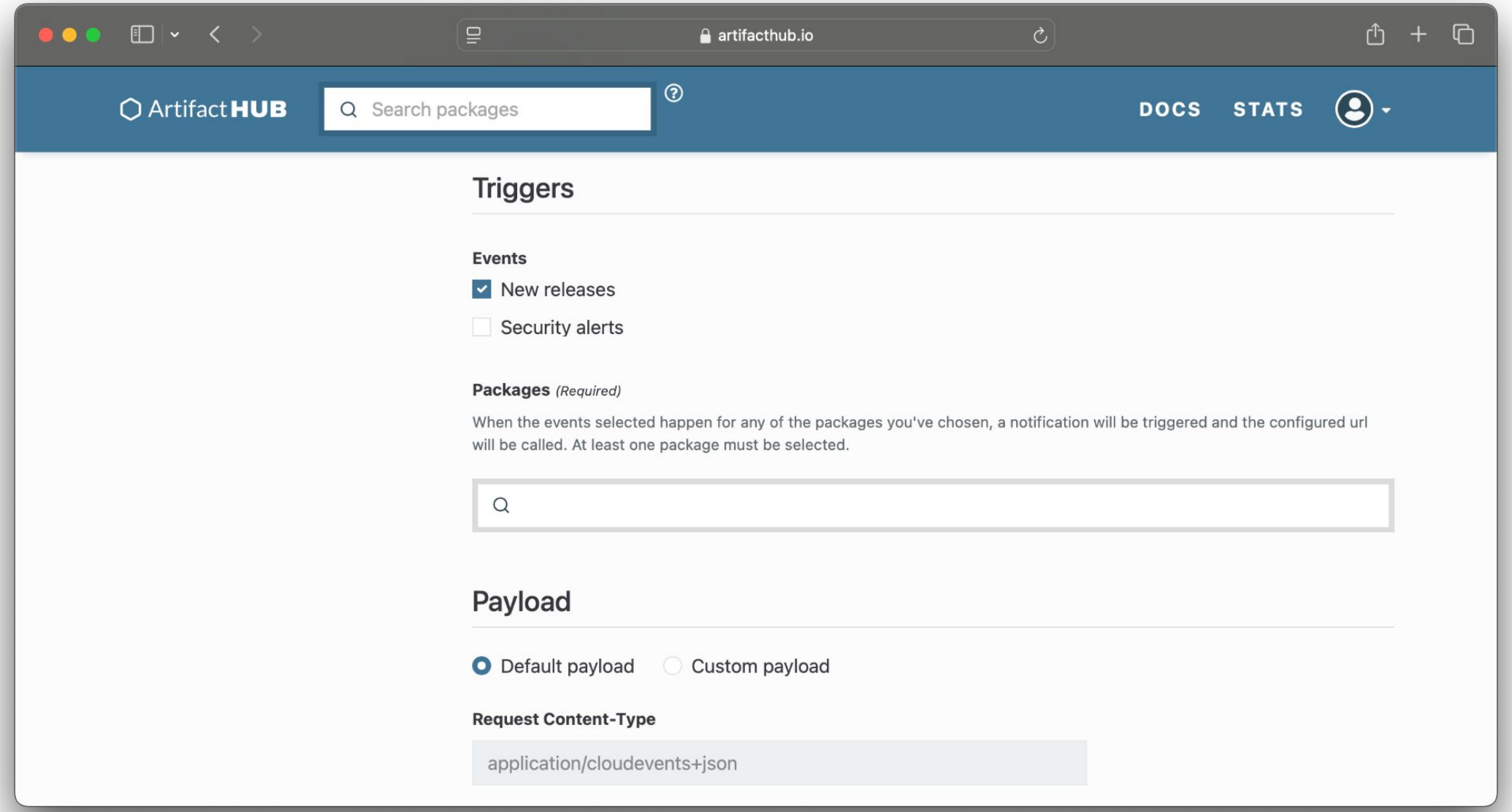
Webhooks


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Organizations
Settings
Profile
Subscriptions
Webhooks
API keys
Webhooks
ADD
Webhooks notify external services when certain events happen.
You have not created any webhook yet. You can create your first one by clicking on the button below.
ADD WEBHOOK

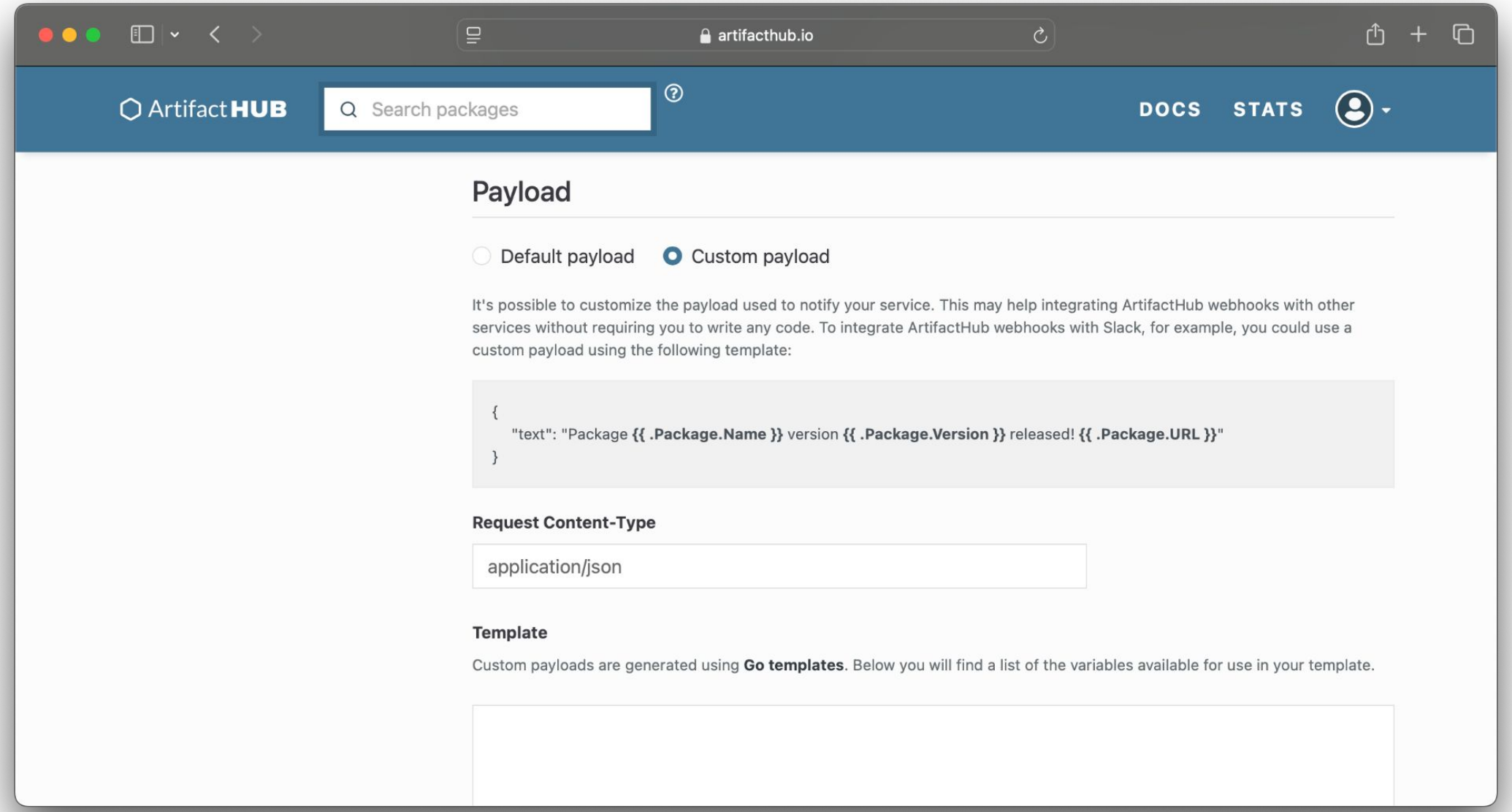
Webhooks


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
Subscriptions
Webhooks
API keys
Name (Required)
Description
Url (Required)
A POST request will be sent to the provided URL when any of the events selected in the triggers section happens.
Secret
If you provide a secret, we'll send it to you in the X-ArtifactHub-Secret header on each request. This will allow you to validate that the request comes from ArtifactHub.
Active
This flag indicates if the webhook is active or not. Inactive webhooks will not receive notifications.

Webhooks


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
Triggers
Events
New releases
Security alerts
Packages (Required)
When the events selected happen for any of the packages you've chosen, a notification will be triggered and the configured url will be called. At least one package must be selected.
Payload
Default payload
Custom payload
Request Content-Type
application/cloudevents+json

Webhooks


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
Payload
Default payload
Custom payload
It's possible to customize the payload used to notify your service. This may help integrating ArtifactHub webhooks with other services without requiring you to write any code. To integrate ArtifactHub webhooks with Slack, for example, you could use a custom payload using the following template:
{
"text": "Package {{ .Package.Name }} version {{ .Package.Version }} released! {{ .Package.URL }}"
}
Request Content-Type
application/json
Template
Custom payloads are generated using Go templates. Below you will find a list of the variables available for use in your template.

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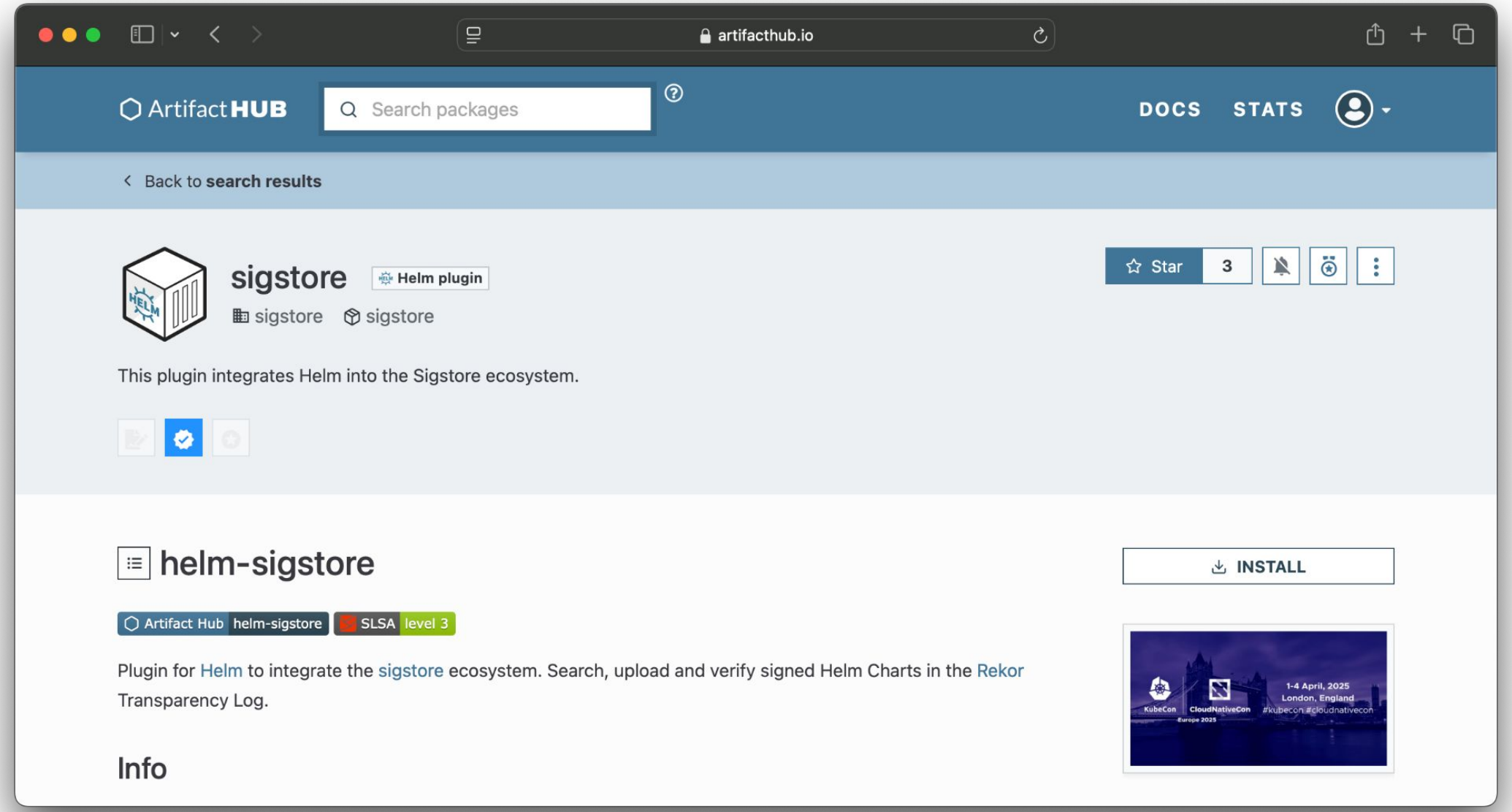
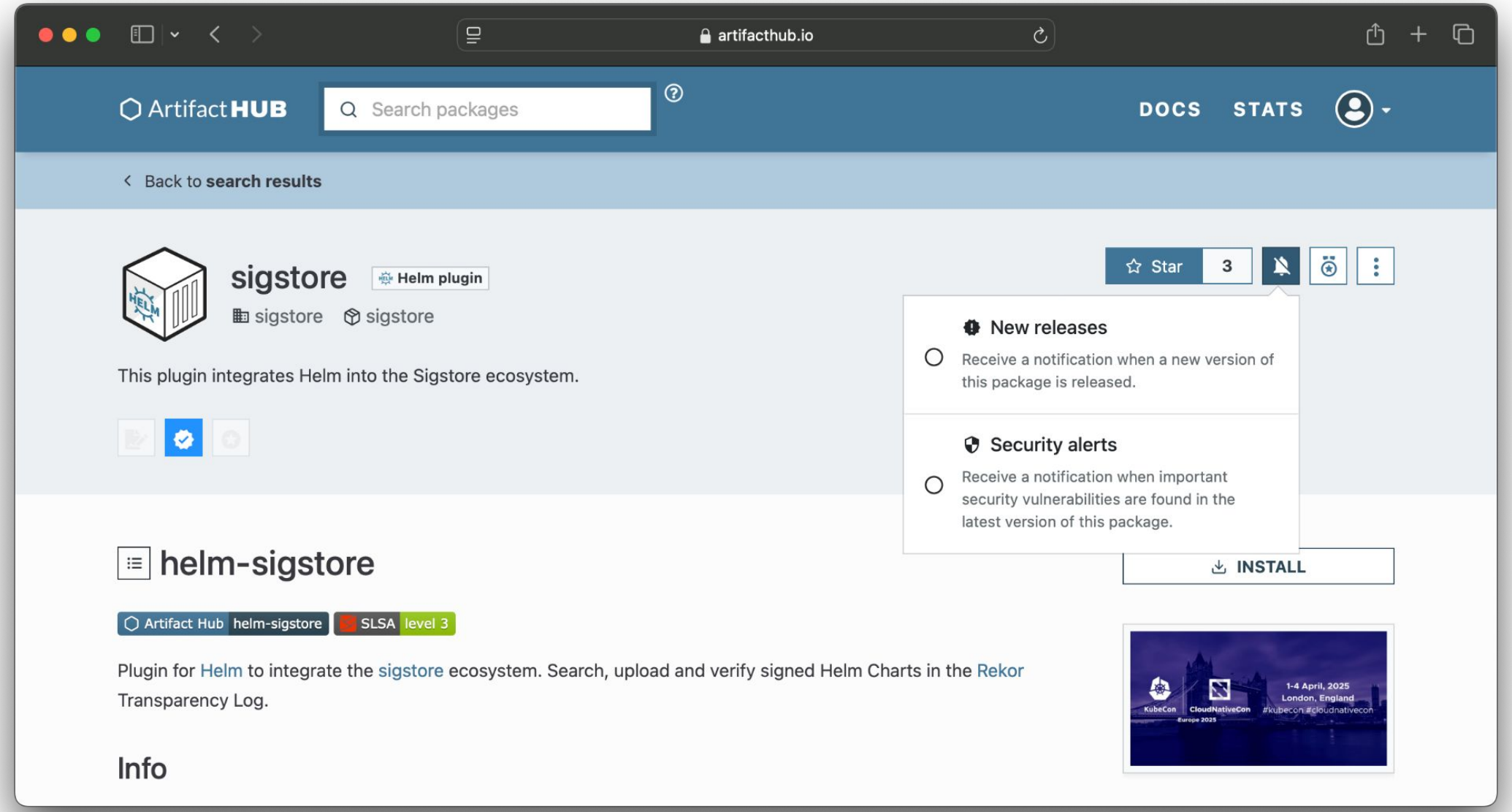
Subscriptions

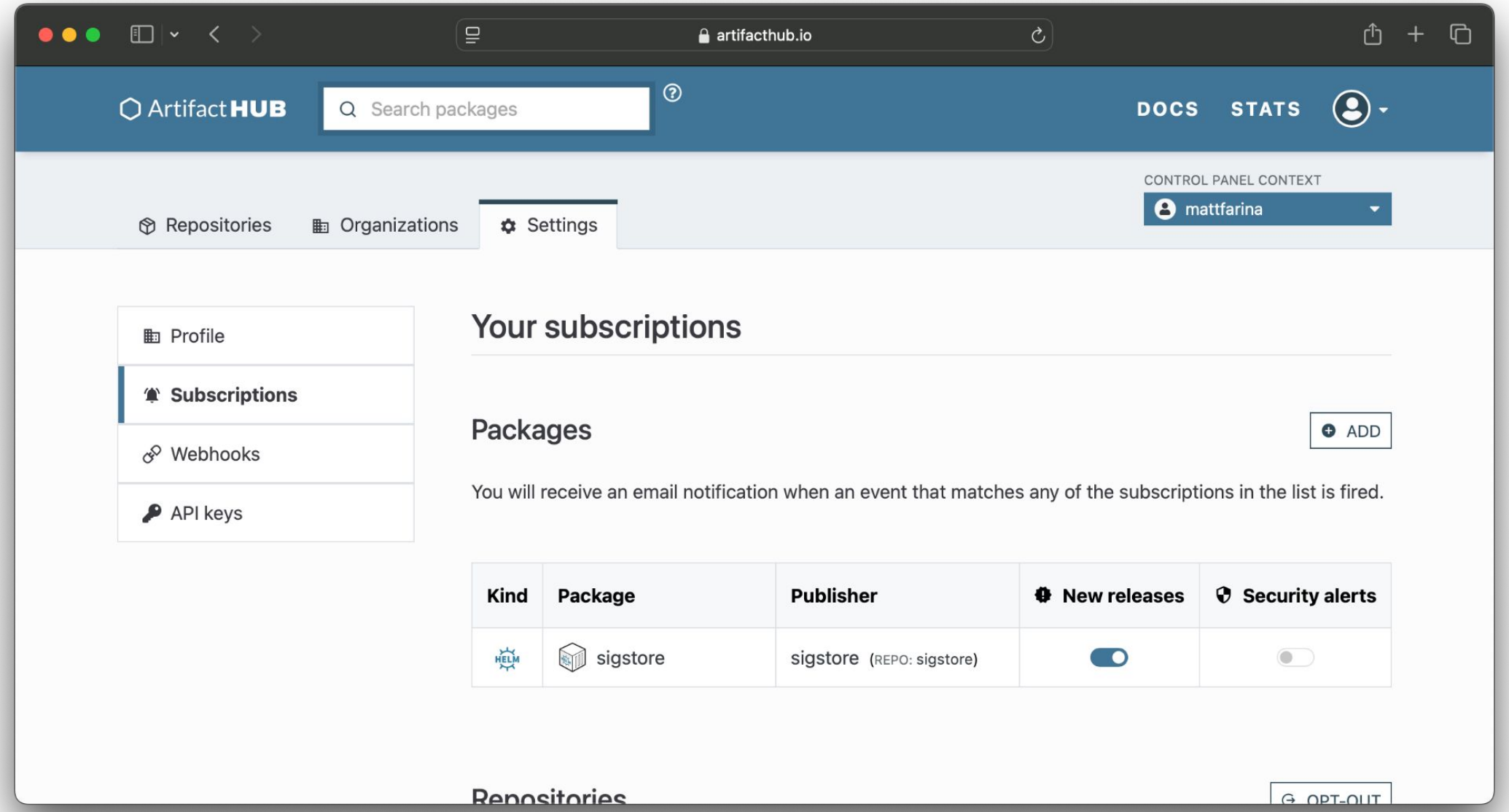
Subscriptions



Subscriptions

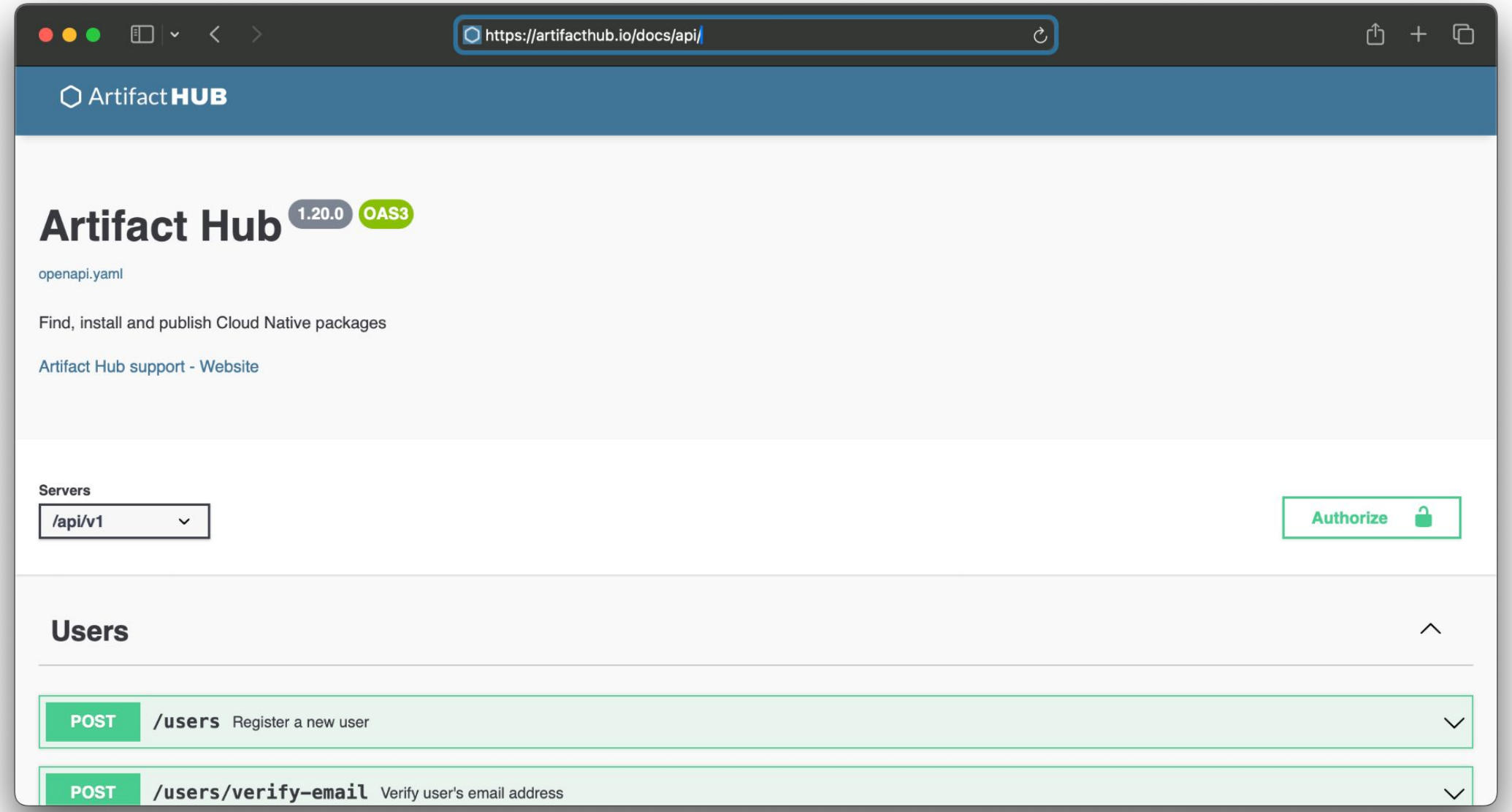


Subscriptions

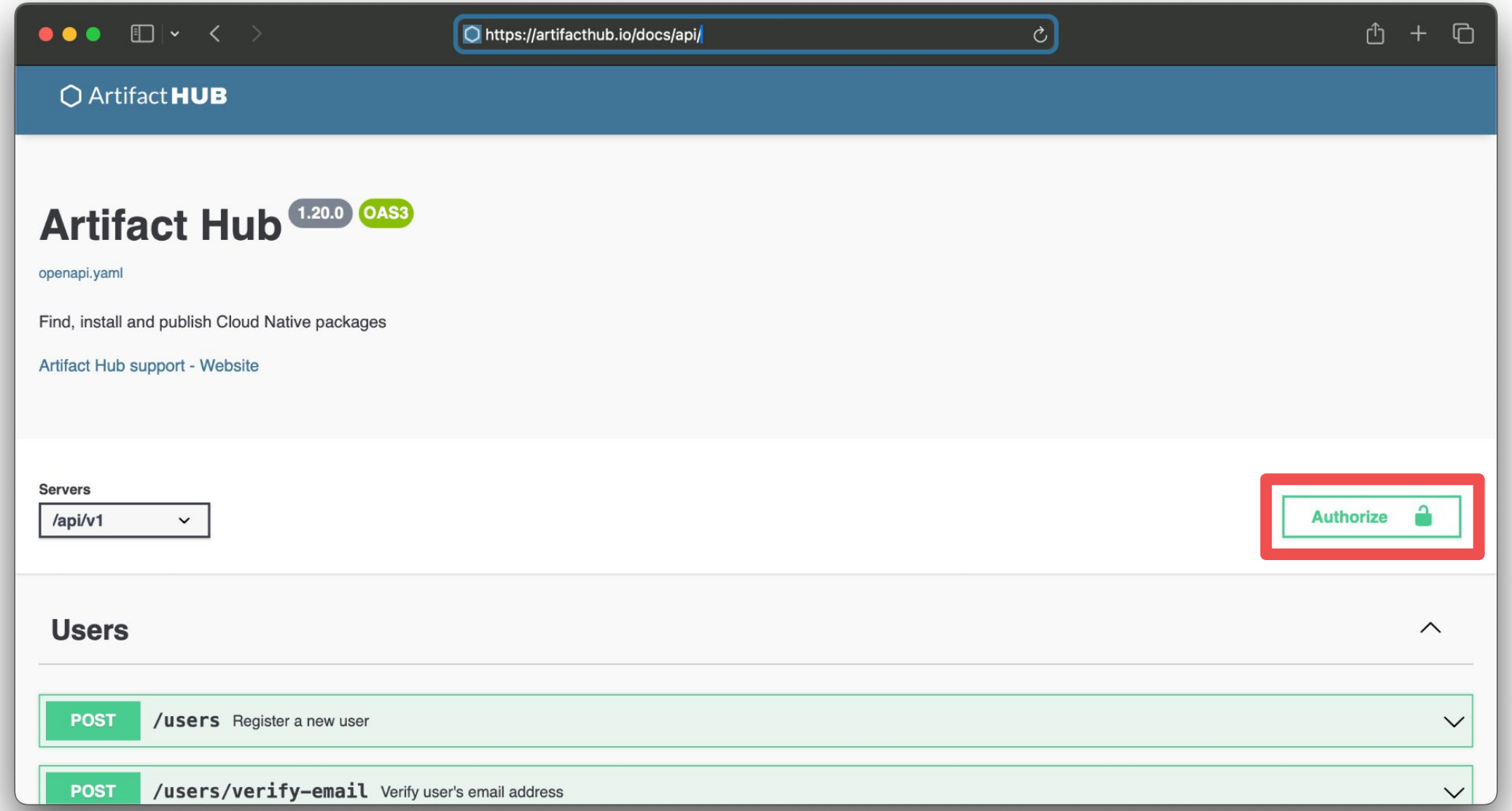


The API

APIs


https://artifacthub.io/docs/api/
ArtifactHUB
Artifact Hub
1.20.0
OAS3
openapi.yaml
Find, install and publish Cloud Native packages
Artifact Hub support - Website
Servers
/api/v1
Authorize
Users
POST /users Register a new user
POST /users/verify-email Verify user's email address

APIs


https://artifacthub.io/docs/api/
ArtifactHUB
Artifact Hub
1.20.0
OAS3
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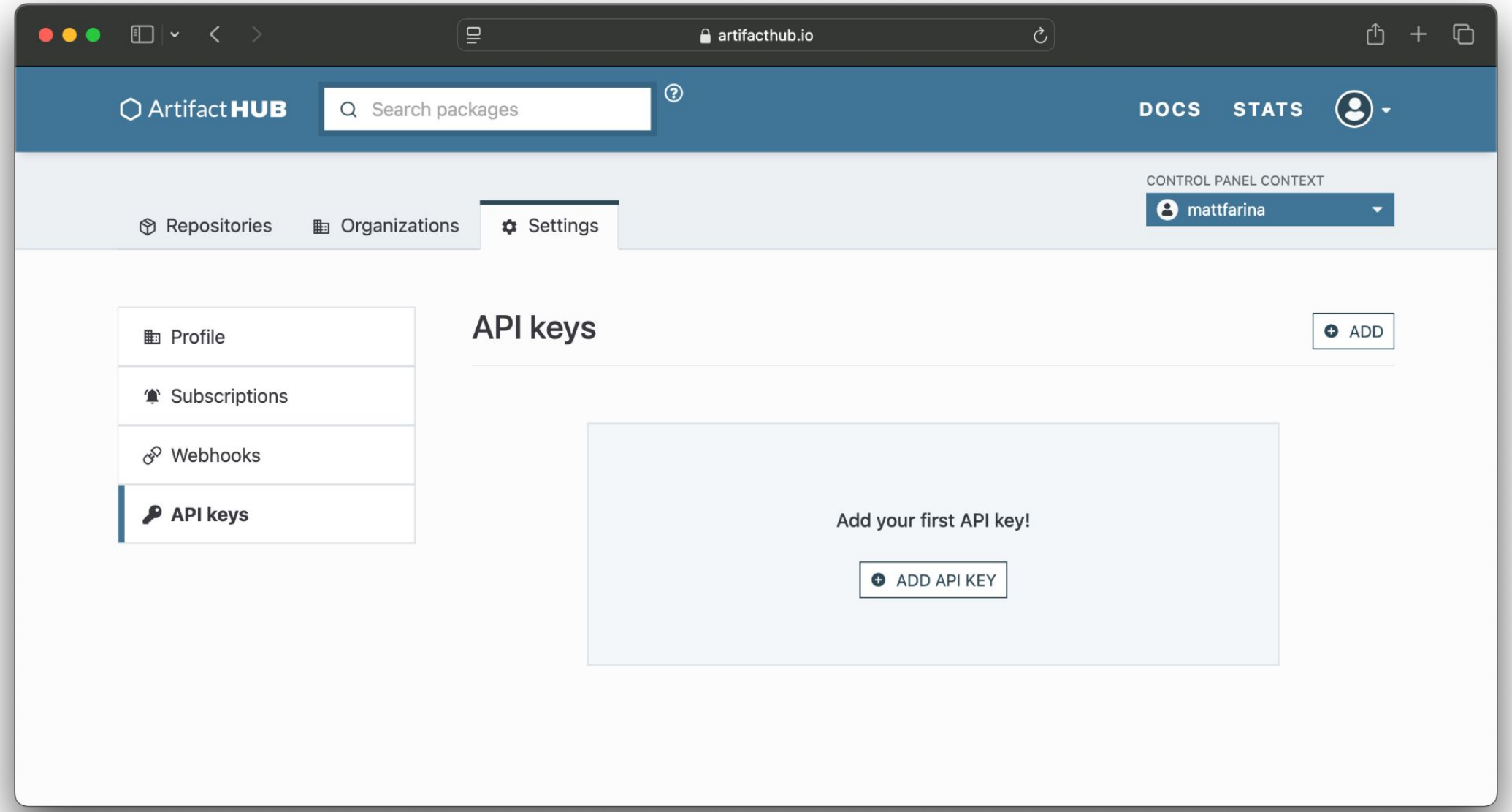
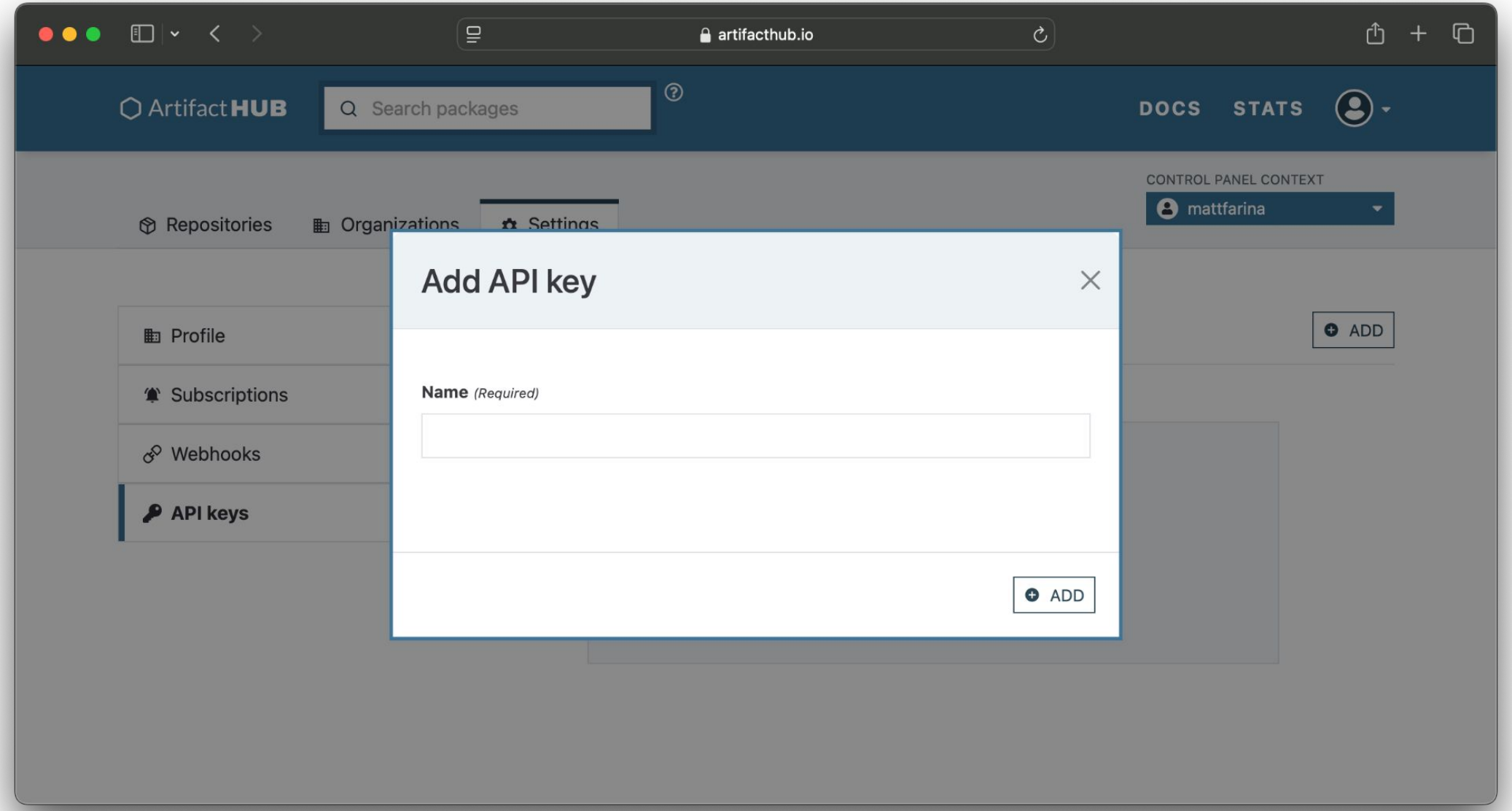
Servers
/api/v1
Authorize
Users
POST /users Register a new user
POST /users/verify-email Verify user's email address

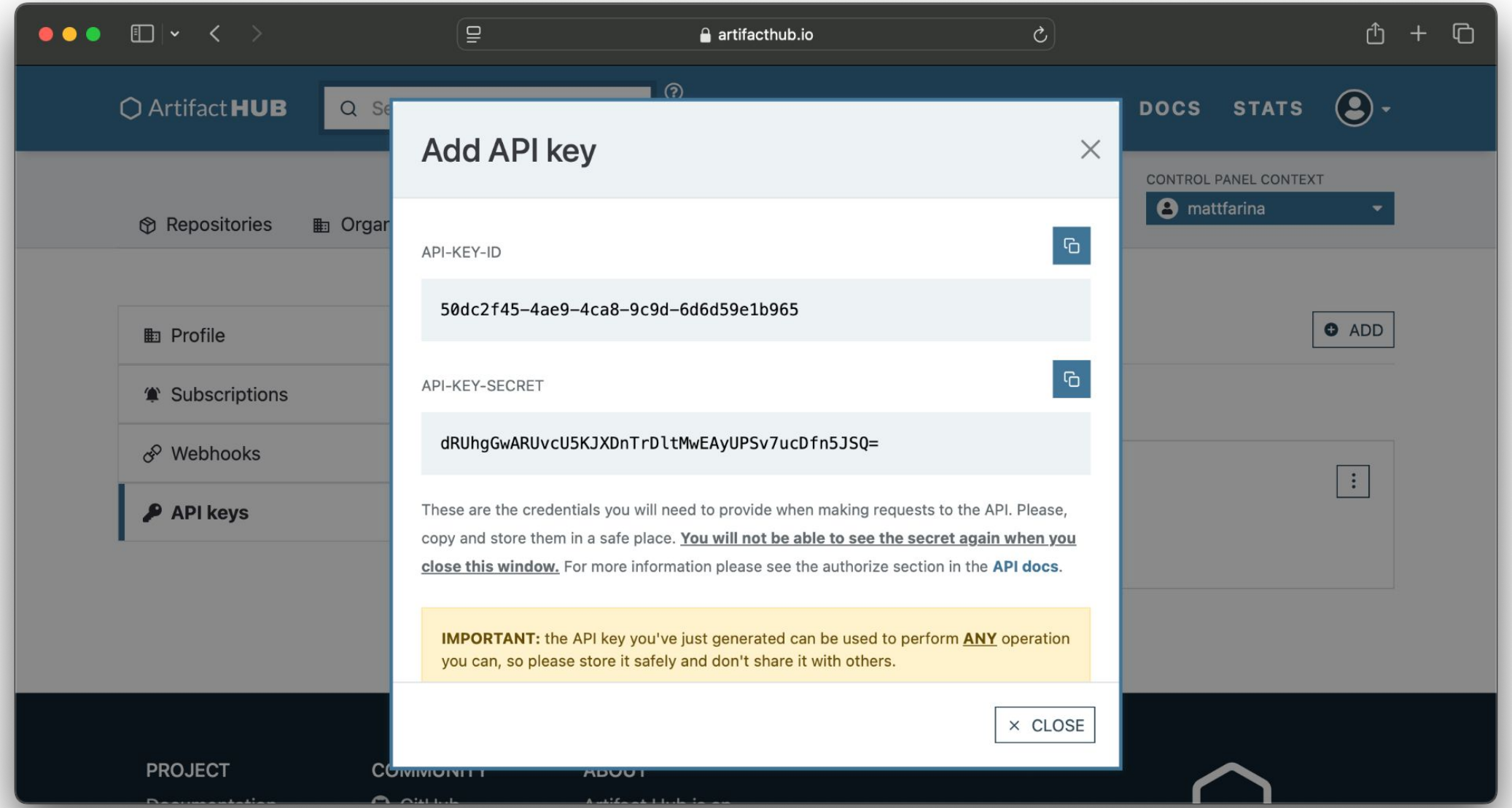
APIs


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Organizations
Settings
Profile
Subscriptions
Webhooks
API keys
API keys
ADD
Add your first API key!
ADD API KEY

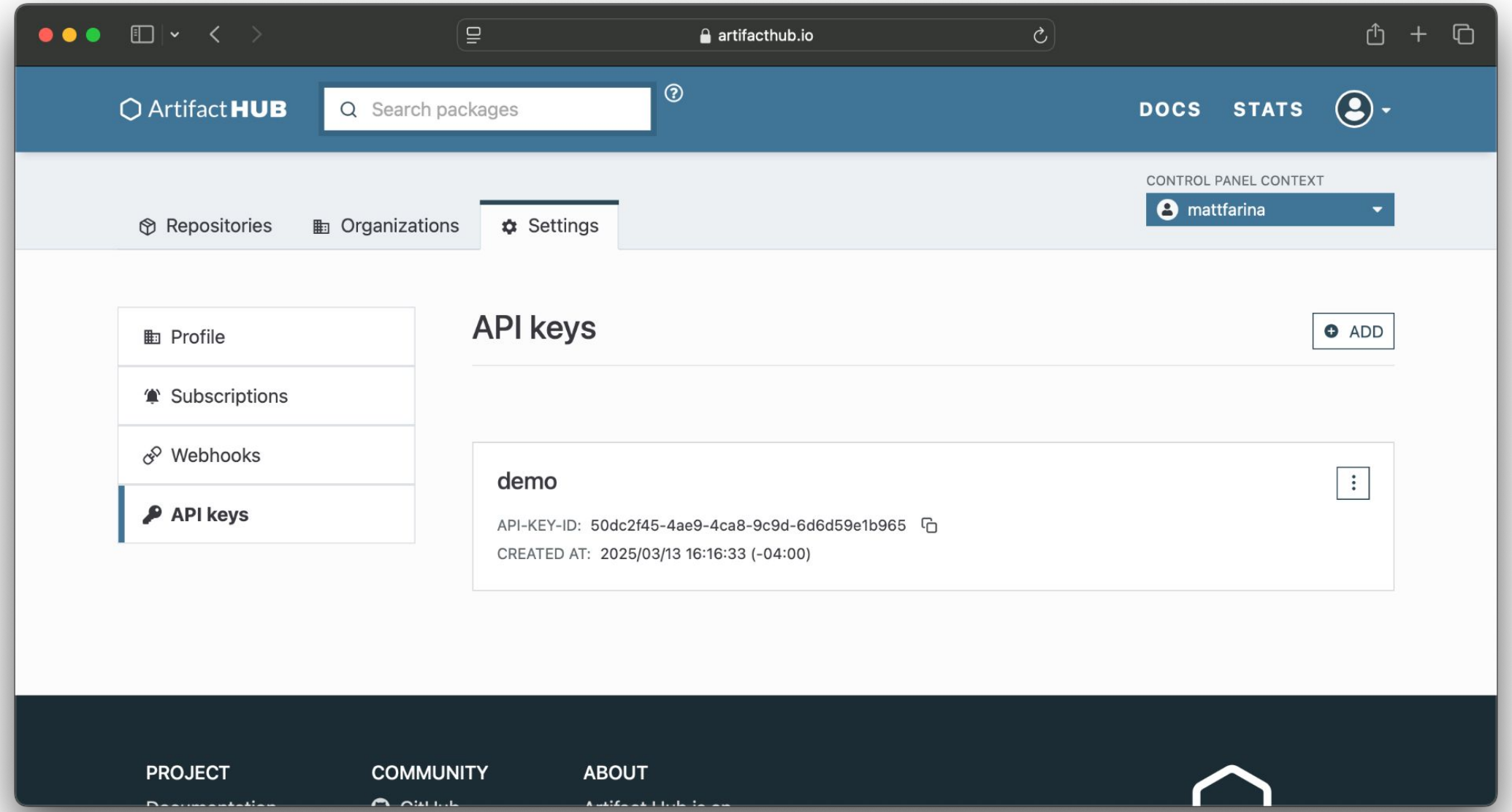
APIs


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Organizations
Settings
Profile
Subscriptions
Webhooks
API keys
ADD
Add API key
Name (Required)
ADD

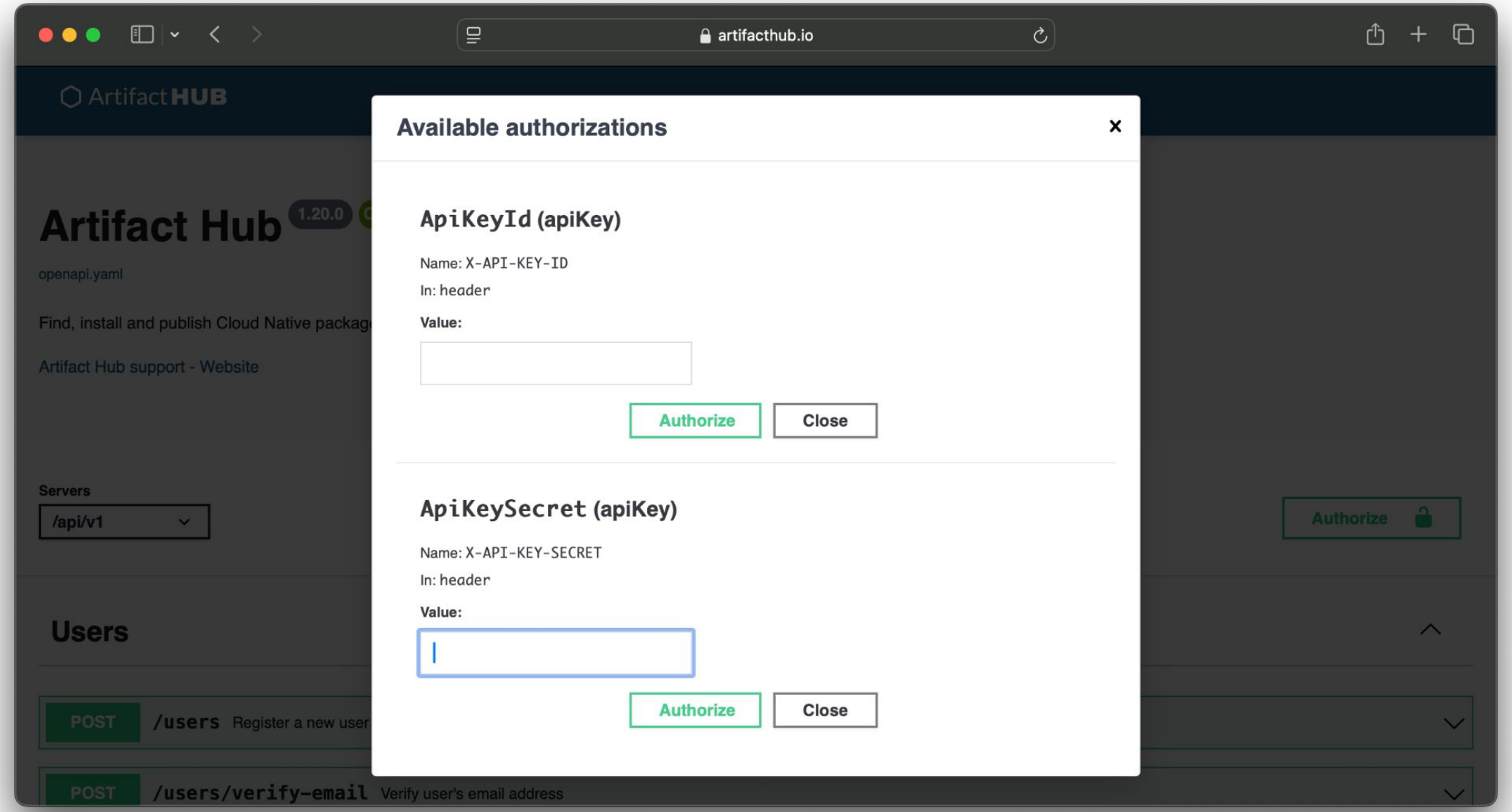
APIs


artifacthub.io
ArtifactHUB
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Profile
Subscriptions
Webhooks
API keys
ADD
Add API key
API-KEY-ID
50dc2f45-4ae9-4ca8-9c9d-6d6d59e1b965
API-KEY-SECRET
dRUhgGwARUvcU5KJXDnTrDltMwEAyUPSv7ucDfn5JSQ=
These are the credentials you will need to provide when making requests to the API. Please, copy and store them in a safe place. You will not be able to see the secret again when you close this window. For more information please see the authorize section in the API docs.
IMPORTANT: the API key you've just generated can be used to perform ANY operation you can, so please store it safely and don't share it with others.
CLOSE
PROJECT

APIs


artifacthub.io
ArtifactHUB
Search packages
DOCS
STATS
CONTROL PANEL CONTEXT
mattfarina
Repositories
Organizations
Settings
Profile
Subscriptions
Webhooks
API keys
API keys
ADD
demo
API-KEY-ID: 50dc2f45-4ae9-4ca8-9c9d-6d6d59e1b965
CREATED AT: 2025/03/13 16:16:33 (-04:00)
PROJECT
COMMUNITY
ABOUT

APIs


artifacthub.io
Artifact HUB
Artifact Hub
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openapi.yaml
Find, install and publish Cloud Native packag
Artifact Hub support - Website
Servers
/api/v1
Authorize
Users
POST /users Register a new user
POST /users/verify-email Verify user's email address
Available authorizations
ApiKeyId (apiKey)
Name: X-API-KEY-ID
In: header
Value:
Authorize
Close
ApiKeySecret (apiKey)
Name: X-API-KEY-SECRET
In: header
Value:
Authorize
Close

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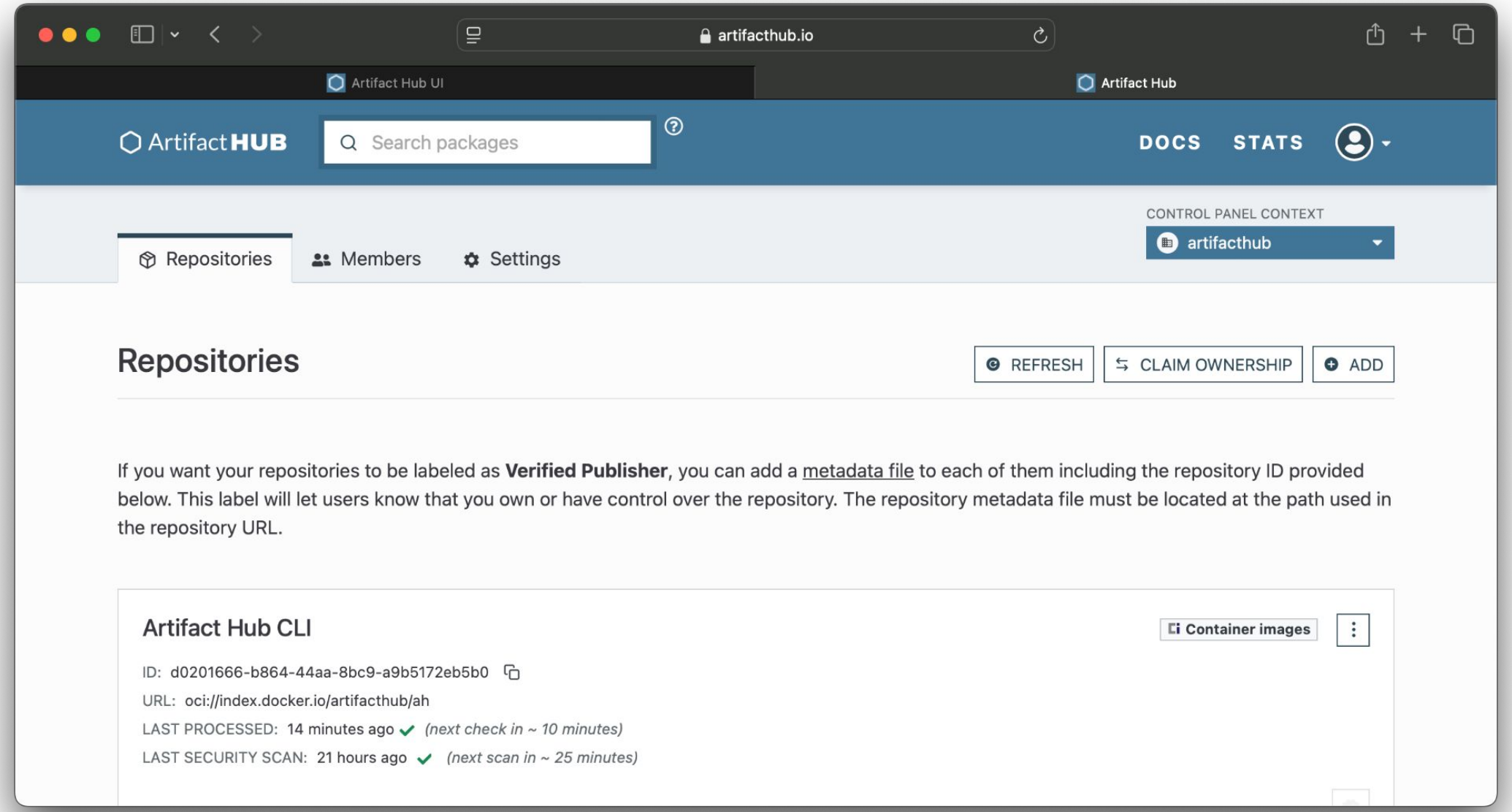
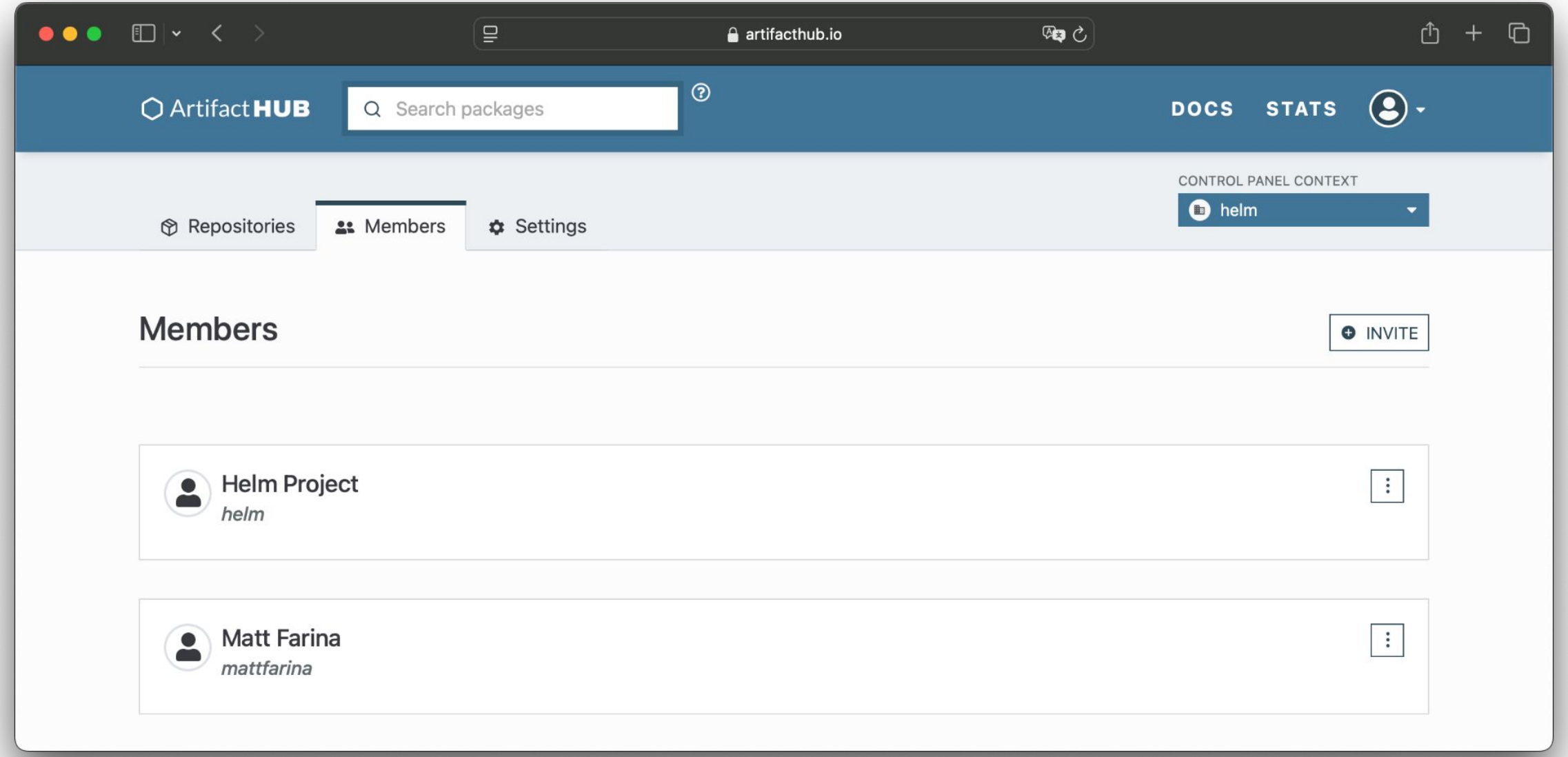
Org Authorization

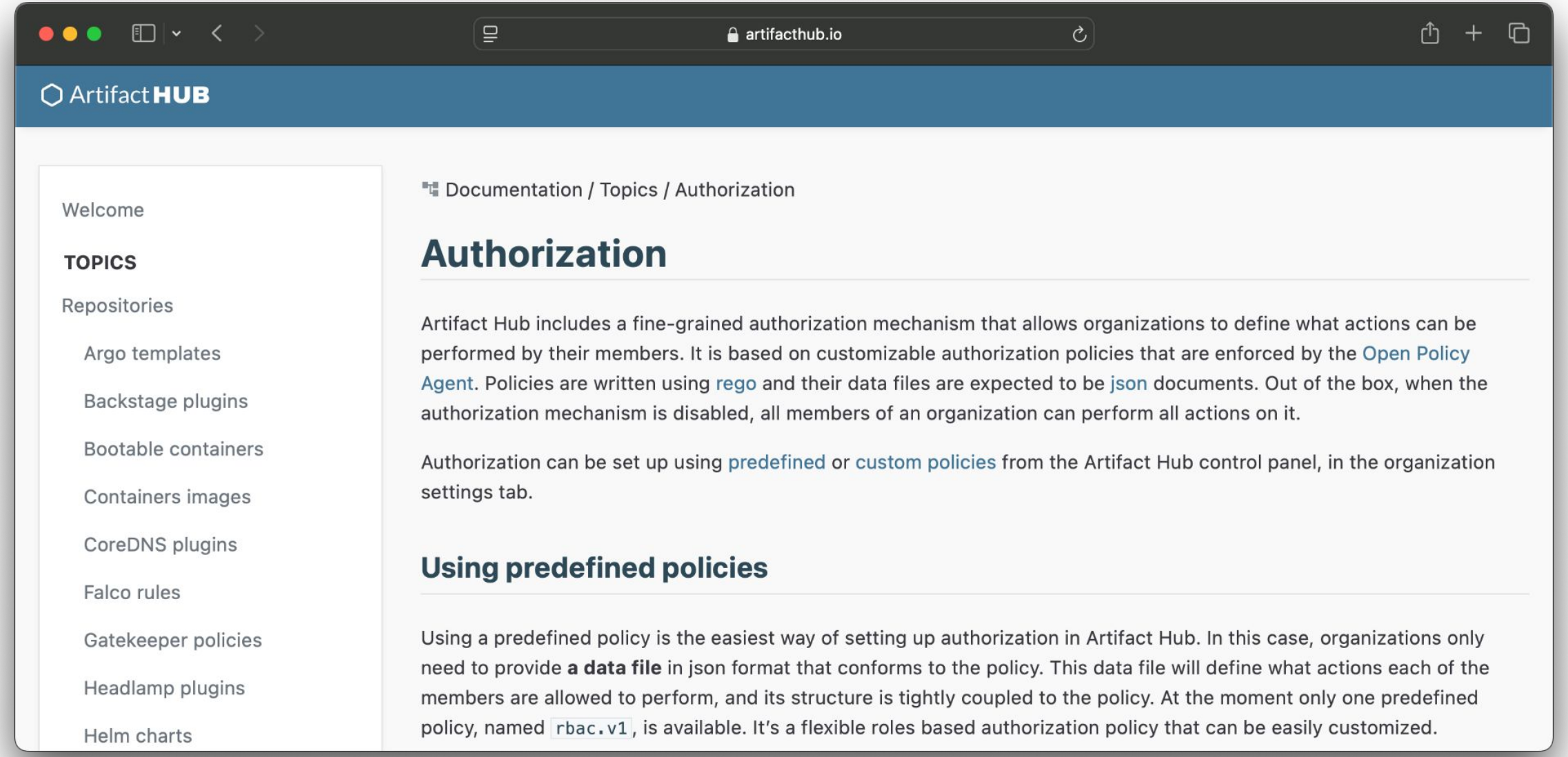
Authorization



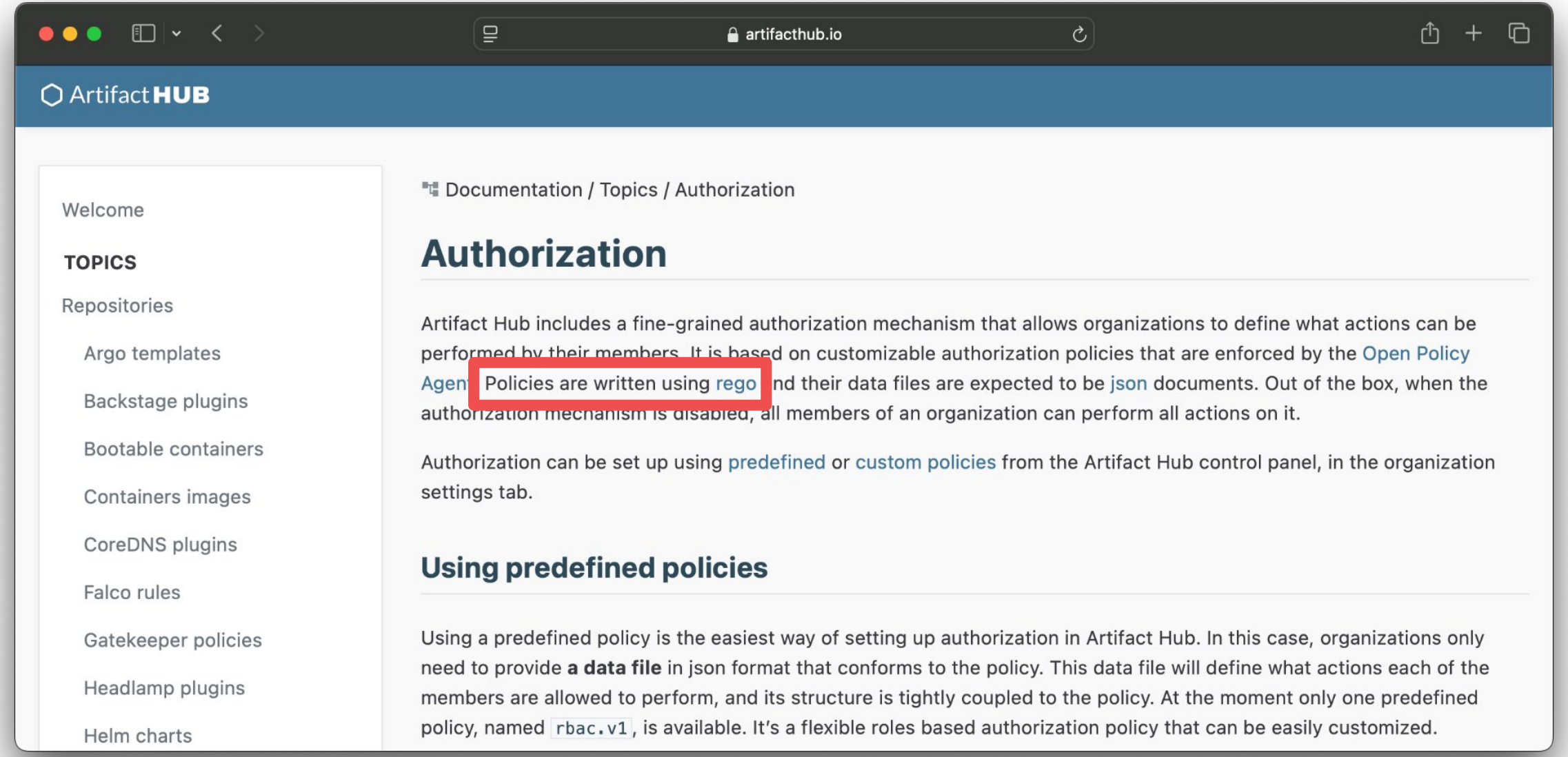
Authorization



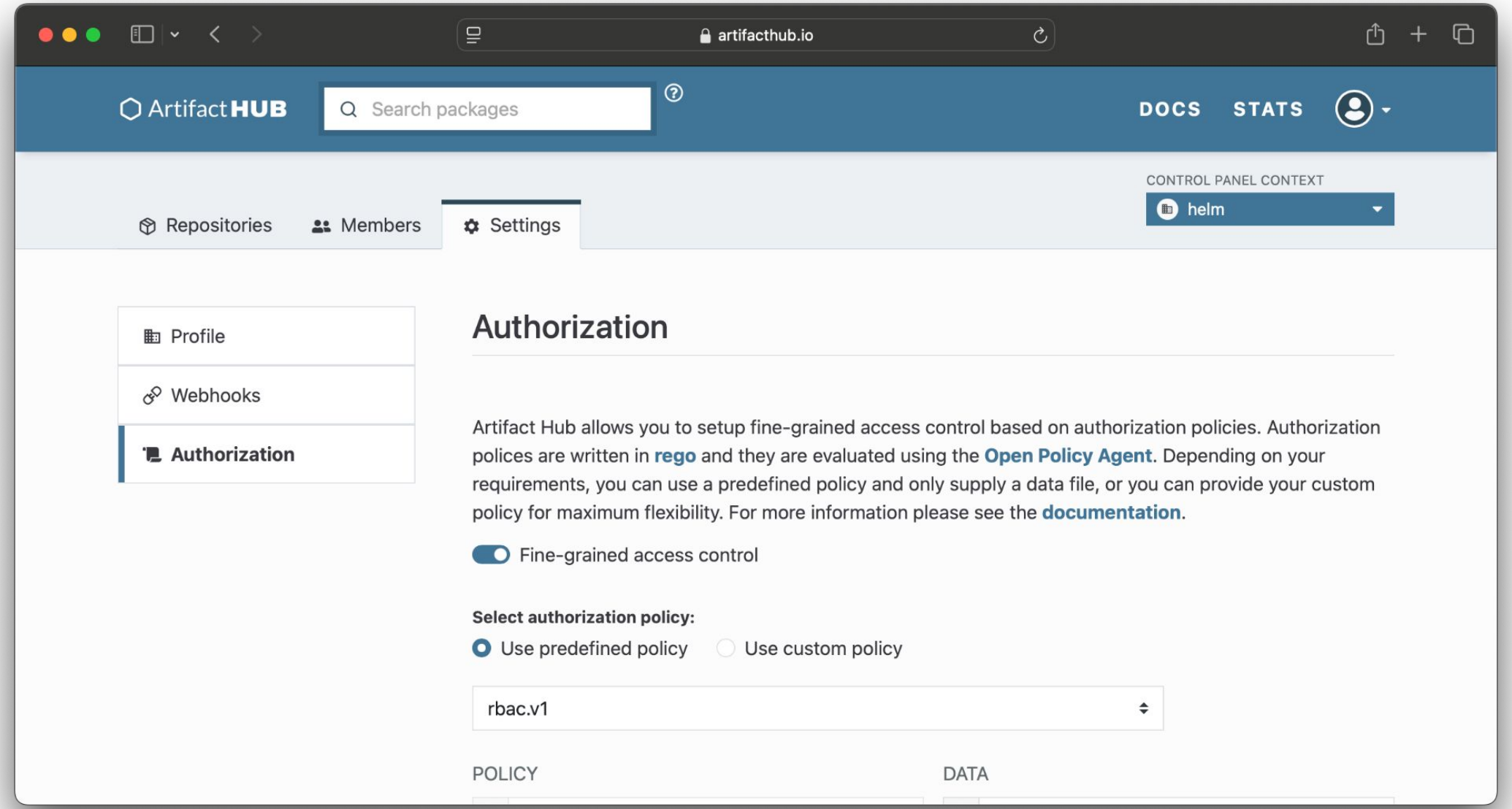
Authorization



Authorization



Authorization



Q&A