



KubeCon



CloudNativeCon

Europe 2025

Leveraging the Little Known Features of Artifact Hub

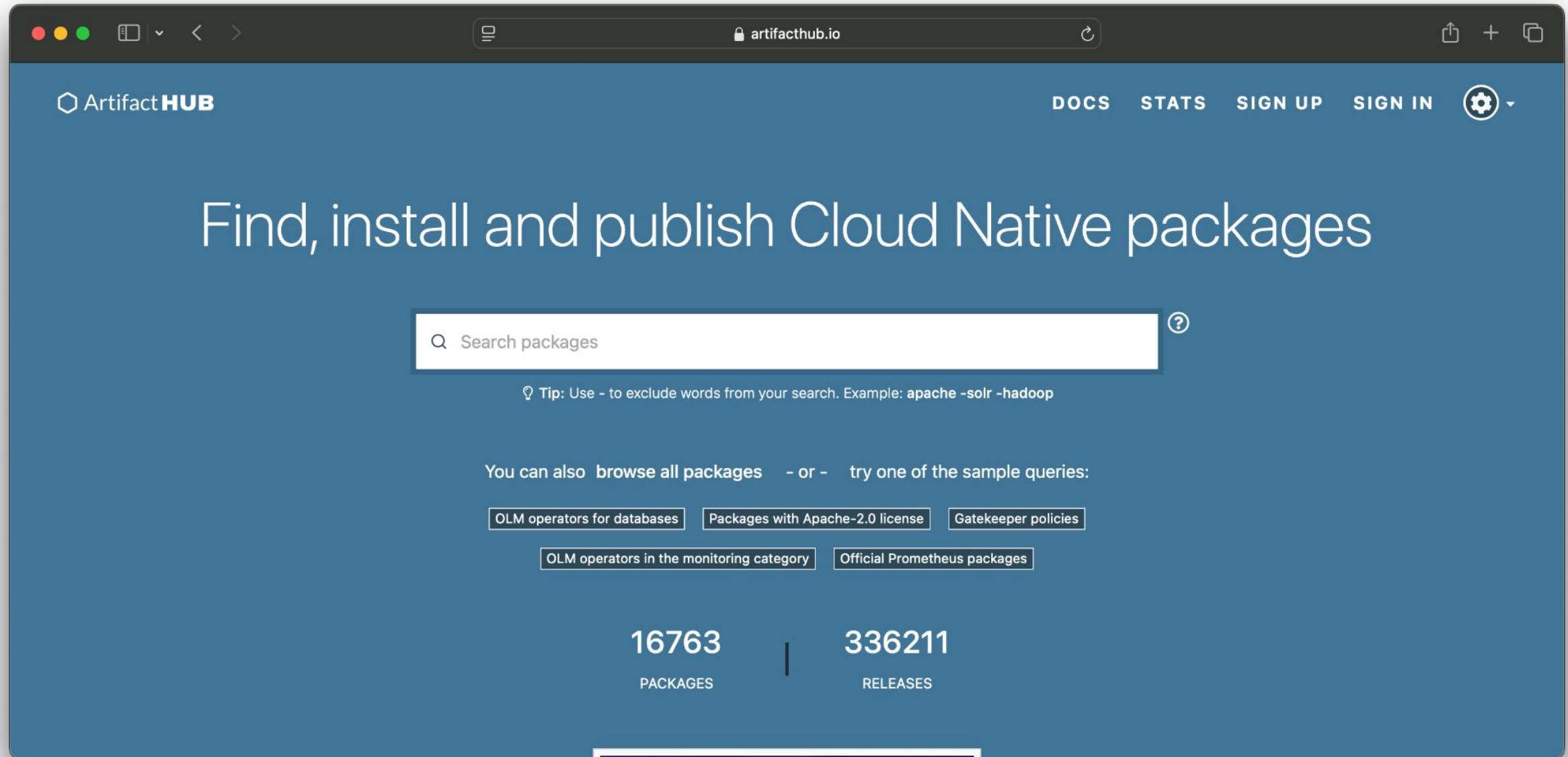
Matt Farina



The screenshot shows a GitHub repository page for `artifacthub/hub`. The repository is public and has 15 branches and 42 tags. The `Code` tab is selected, displaying a list of recent commits:

- hamdikh Bump copyright year to 2025 (#4308) 89f068e · 3 days ago 1,932 Commits
- .github Upgrade backend dependencies and base images (#4296) 3 weeks ago
- .gitpod Bump OPM to 1.47.0 (#4074) 5 months ago
- charts/artifact-hub Add support for bootable container images (#4262) 2 months ago
- cmd Bump golang from 1.23-bullseye to 1.24-bullseye in /cmd/... 3 weeks ago
- configs Upgrade Grafana dashboard (#3708) last year
- database Upgrade backend dependencies and base images (#4296) 3 weeks ago
- docs Add support for bootable container images (#4262) 3 months ago

The repository has 247 forks and 1.8k stars. The `About` section includes a description of the project: "Find, install and publish Cloud Native packages". It also lists associated links like `artifacthub.io`, and tags: `kubernetes`, `packages`, `cncf`, and `cloud-native`. Other links include `Readme`, `Apache-2.0 license`, `Code of conduct`, `Security policy`, and `Activity`.



The screenshot shows the homepage of artifacthub.io. At the top, there's a navigation bar with icons for window control, a search bar containing 'artifacthub.io', and icons for upload, add, and refresh. Below the bar, the 'Artifact HUB' logo is on the left, and 'DOCS', 'STATS', 'SIGN UP', 'SIGN IN', and a gear icon are on the right. The main heading 'Find, install and publish Cloud Native packages' is centered. A search input field with placeholder 'Search packages' and a help icon is below it. A tip message provides guidance on using the search function. Below the search area, there's a section for sample queries with buttons for 'OLM operators for databases', 'Packages with Apache-2.0 license', 'Gatekeeper policies', 'OLM operators in the monitoring category', and 'Official Prometheus packages'. At the bottom, two large statistics are displayed: '16763 PACKAGES' and '336211 RELEASES'.

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:

[OLM operators for databases](#) [Packages with Apache-2.0 license](#) [Gatekeeper policies](#)

[OLM operators in the monitoring category](#) [Official Prometheus packages](#)

16763
PACKAGES

336211
RELEASES

Artifact Hub on artifacthub.io

The screenshot shows a web browser window displaying the artifacthub.io website. The page is for the "artifact-hub" package. At the top, there's a navigation bar with links for DOCS, STATS, SIGN UP, SIGN IN, and a gear icon. Below the navigation is a search bar and a "Helm chart" button. The main content area features a blue hexagonal icon for "artifact-hub", the name "artifact-hub", and a "Helm chart" button. It also shows two "Artifact Hub" icons. To the right are buttons for "Star" (86), notifications, and more options. A brief description states: "Artifact Hub is a web-based application that enables finding, installing, and publishing Cloud Native packages." Below this are icons for GitHub, Docker, Helm, Kubernetes, and a star. A stats box shows 18 subscriptions, 4 webhooks, and 1 production user. The "Artifact Hub" section contains an "Introduction" and a note about bootstrapping a deployment using Helm. To the right, there are links for "INSTALL", "TEMPLATES", "DEFAULT VALUES", "VALUES SCHEMA", "CHANGELOG", and "SCREENSHOTS".

artifact-hub

Helm chart

Artifact Hub

Star 86

Subscriptions: 18 Webhooks: 4 Production users: 1

Report issue

INSTALL

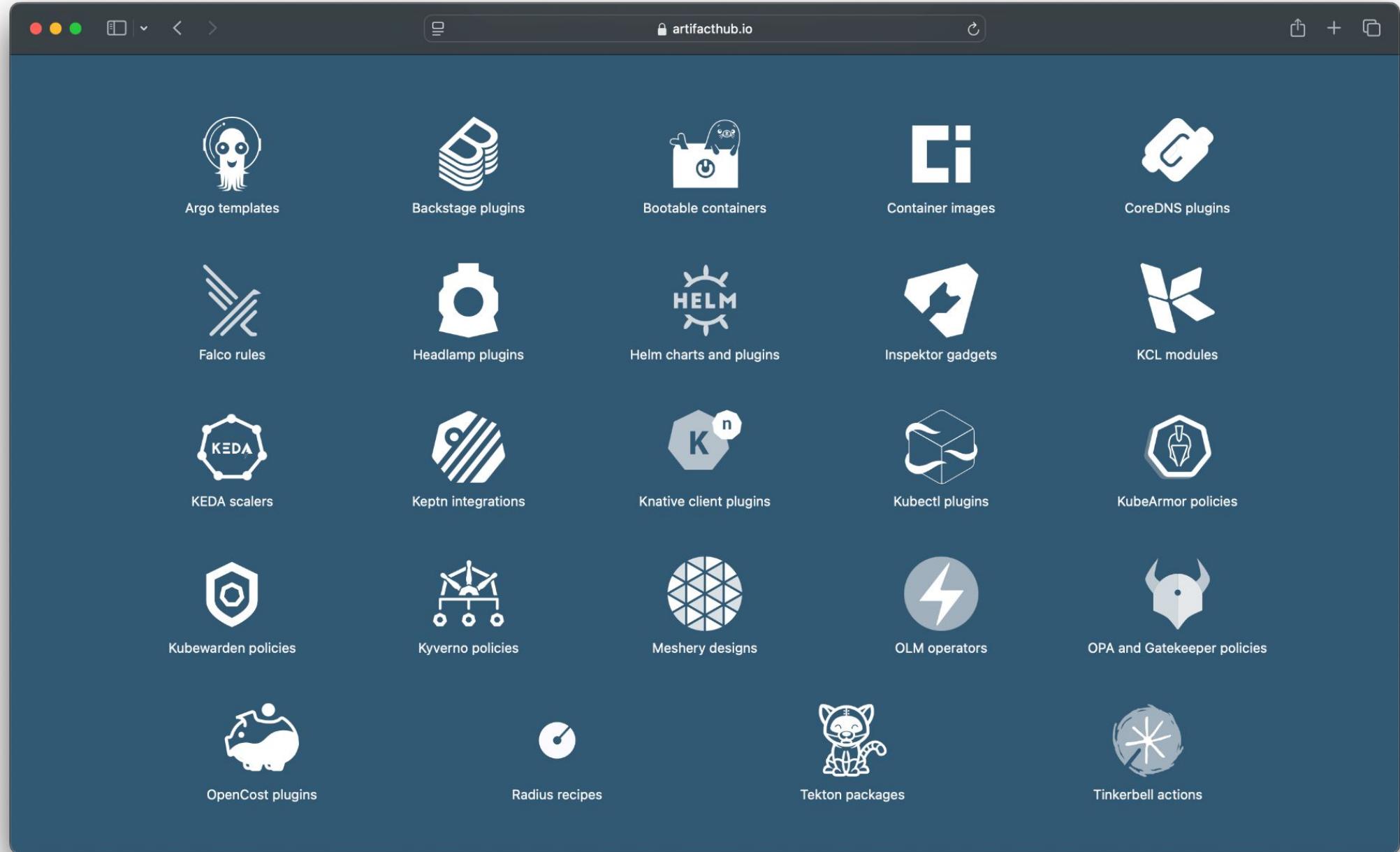
TEMPLATES

DEFAULT VALUES

VALUES SCHEMA

CHANGELOG

SCREENSHOTS



Artifact Hub: Discover, Analyze, and Share Cloud Native Artifacts - Matt Farina, SUSE

KubeCon CloudNativeCon

North America 2024

Watch later Share

Artifact Hub: Discover, Analyze, and Share Cloud Native Artifacts

Matt Farina, SUSE

Watch on YouTube

The thumbnail features a dark blue background with a snowy mountain landscape. The title and speaker information are overlaid in white and yellow text. A small red YouTube play button icon is integrated into the word 'Discover'.

<https://sched.co/1howN>

Who Is This Guy?



Matt Farina

mattfarina.com
[@mattfarina](https://twitter.com/mattfarina)



The Developers



Sergio and **Cintia** are the main developers



KubeCon



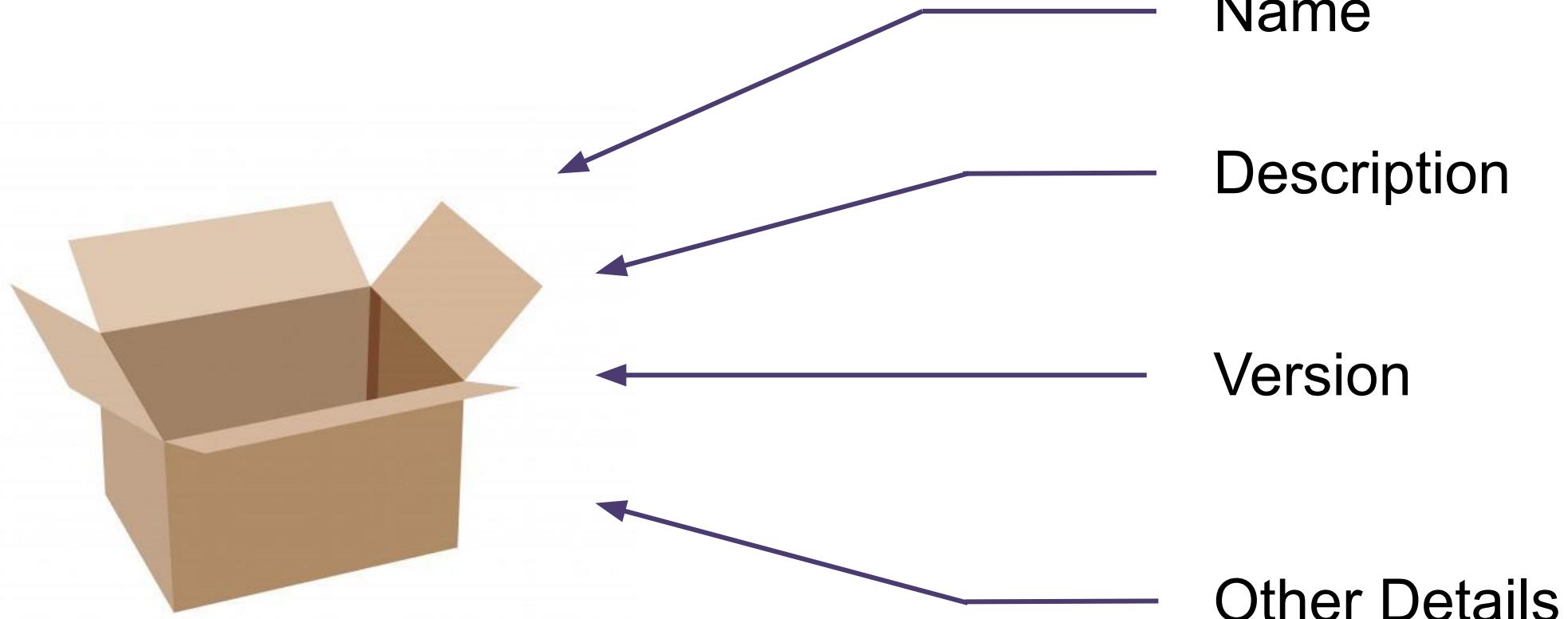
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Tell Artifact Hub More About Your Artifacts



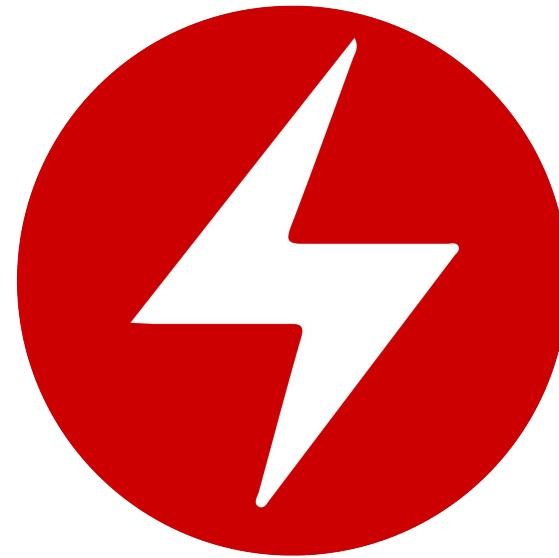
Auto Detection



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



```
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
```

artifacthub-pkg.yml:



```
name: postgresql
alternativeName: postgres
```

Manifest annotation:



```
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.

artifacthub-pkg.yml:

```
● ● ●

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
```

Manifest annotation:

```
● ● ●

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

The screenshot shows a web browser window displaying the artifacthub.io website. The URL bar shows the address. The header includes the Artifact HUB logo, a search bar with placeholder "Search packages", and navigation links for DOCS, STATS, SIGN UP, SIGN IN, and a gear icon.

The main content area features a blue hexagonal icon for "artifact-hub". Below it are two buttons: "Artifact Hub" and "Helm chart". To the right are icons for "Star" (86), notifications, and more options. A brief description states: "Artifact Hub is a web-based application that enables finding, installing, and publishing Cloud Native packages." Below this are five small icons representing different features.

A summary box shows statistics: SUBSCRIPTIONS: 18, WEBHOOKS: 4, and PRODUCTION USERS: 1.

The "Artifact Hub" section contains an "Introduction" paragraph: "Artifact Hub is a web-based application that enables finding, installing, and publishing Cloud Native packages." It also includes a "Report issue" link and a series of buttons for "INSTALL", "TEMPLATES", "DEFAULT VALUES", "VALUES SCHEMA", and "CHANGELOG". The "CHANGELOG" button is highlighted with a red rectangle.

At the bottom, there is a "SCREENSHOTS" button.

Changelog

The screenshot shows a web browser window displaying the artifacthub.io website. The main content is a modal dialog titled "Changelog" for the "Artifact" chart. The modal lists several releases:

- 1.20.0** (Released 5 months ago) - Contains security updates
 - + 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
- 1.19.0** (27 Jun, 2024)
- 1.18.0** (18 Apr, 2024)
- 1.17.0** (15 Jan, 2024)

At the bottom of the modal, there are "GET MARKDOWN" and "CLOSE" buttons. To the right of the modal, a sidebar lists navigation links: INSTALL, TEMPLATES, FAULT VALUES, VALUES SCHEMA, CHANGELOG, and SCREENSHOTS. The background of the page shows the main artifacthub.io interface with the "Introduction" section visible.

A screenshot of a web browser window displaying the Updatecli website. The browser has a dark mode interface with a light gray header bar. The address bar shows the URL `updatecli.io`. The main content area features the **Updatecli** logo, a tagline "Continuously update everything", a "Get started" button, and a note about the open-source Apache-2.0 license. A large circular icon with a geometric pattern is centered below the main text.

The browser window includes standard navigation controls (back, forward, search, etc.) and a toolbar with icons for search, refresh, and other functions.

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

The screenshot shows a web browser window with the URL `artifacthub.io` in the address bar. The main page displays a search bar and a sidebar with navigation links like "Home", "Search", "Categories", "Install", "Hangelog", and "Status". A search result for "CEL Policy" is shown, featuring a large icon of a cube with a target symbol, the text "CEL Policy", and a brief description: "A policy that evaluates admission requests using the Container Expression Language (CEL).". Below the search results, there's a modal window titled "CEL Policy" with the sub-section "Publisher instructions". It contains the following text and code snippets:

The policy can be obtained using `kwctl`:

```
kwctl pull ghcr.io/kubewarden/policies/cel-policy:v1.2.2
```

Then, generate the policy manifest and tune it to your liking. For example:

```
kwctl scaffold manifest -t ClusterAdmissionPolicy registry://ghcr.io/kubewarden/p...
```

At the bottom right of the modal, there's a "CLOSE" button.

artifacthub-pkg.yml:



```
provider:  
  name: kubewarden
```

Manifest annotation:



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

The screenshot shows a web browser window displaying the [ArtifactHub.io](https://artifacthub.io) website. The URL bar shows the address `artifacthub.io`. The main content area displays a package page for a provider. The package name is partially visible as `persistentVolumeClaim:` and `claimName: your-pvc-name`. Below this, instructions advise replacing `your-image-name` with the actual image name and `your-pvc-name` with the PersistentVolumeClaim name. It also provides a `kubectl` command for creating a Docker Registry secret. Further down, it says to link the Secret with a Service Account running a TaskRun or PipelineRun.

DOCS **STATS** **SIGN UP** **SIGN IN** **⚙️**

`persistentVolumeClaim:
claimName: your-pvc-name`

You'll need to replace `your-image-name` with the actual name of the image you want to build, and `your-pvc-name` with the name of the PersistentVolumeClaim where your source code is stored. In case the Container Registry requires authentication, please consider the [Tekton Pipelines documentation](#). In a nutshell, you need to create a Kubernetes Secret describing the following attributes:

```
kubectl create secret docker-registry imagestreams \  
--docker-server="image-registry.openshift-image-registry.svc:5000" \  
--docker-username=" ${REGISTRY_USERNAME} " \  
--docker-password=" ${REGISTRY_TOKEN} "
```

Then make sure the Secret is linked with the Service-Account running the [TaskRun / PipelineRun](#).

Workspace

| Name | Optional | Description |
|--------|----------|---|
| source | false | Container build context, like for instance a application source code followed by a Containerfile. |

PROVIDER
Red Hat

LINKS
[Source](#)

MAINTAINERS
[OpenShift Pipeline task...](#)

CONTAINERS IMAGES
[registry.access.redh...](#)

See details (1)

Recommendations

artifacthub-pkg.yml:



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

Manifest annotation:



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

Recommendations

The screenshot shows the artifacthub.io website interface. At the top, there's a navigation bar with icons for window control, a search bar containing "artifacthub.io", and links for "DOCS", "STATS", "SIGN UP", "SIGN IN", and a gear icon. Below the header, the "trust-manager" package by "cert-manager" is displayed. It includes a circular logo with an anchor and the text "CERT MANAGER", a "Helm chart" button, a "Security" button, and two "cert-manager" links. To the right are "Star" (13), a bell icon, a user icon, and a more options icon. A summary box shows "SUBSCRIPTIONS: 13", "WEBHOOKS: 2", and "PRODUCTION USERS: 1". A red box highlights a section titled "Other packages recommended by the publisher: 1" which lists "cert-manager". The main content area shows the "trust-manager" package details, including its icon, name, "Helm Values" link, and three action buttons: "INSTALL", "TEMPLATES", and "DEFAULT VALUES".



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Signing Artifacts



“ 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

The screenshot shows a web browser window displaying the [ArtifactHub.io](https://artifacthub.io) website. The search bar at the top contains the query "gitlab". The main content area shows the "gitlab" Helm chart page. The chart's icon is a stylized orange and red geometric shape. Below the icon, the chart name "gitlab" is displayed, along with "Helm chart" and "Integration and delivery" badges. The "GitLab" logo is shown below the chart name. To the right, there are social sharing icons and a "Star" button with the number "235". A summary bar indicates "SUBSCRIPTIONS: 108", "WEBHOOKS: 8", and "PRODUCTION USERS: 7". The page title is "Cloud Native GitLab Helm Chart". A descriptive text block states: "The `gitlab` chart is the best way to operate GitLab on Kubernetes. It contains all the required components to get". On the right side, there are four buttons: "INSTALL", "TEMPLATES", "DEFAULT VALUES", and "CHANGELOG".

Signing

The screenshot shows a web browser window with the URL `artifacthub.io` in the address bar. The search bar contains the query `gitlab`. The page title is `ArtifactHUB`. The navigation menu includes `DOCS`, `STATS`, `SIGN UP`, `SIGN IN`, and a gear icon for settings.

Below the header, there is a link to `< Back to "gitlab" results`. The main content area displays the `gitlab` package details:

- gitlab** (Helm chart, Integration and delivery)
- GitLab (GitLab)
- Star: 235
- Subscriptions: 108
- Webhooks: 8
- Production users: 7

A prominent message states: "Signed". Below it, the text "This package has been signed." and "Signature: chart provenance file" are displayed. To the right, there are four buttons: `INSTALL`, `TEMPLATES`, `DEFAULT VALUES`, and `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

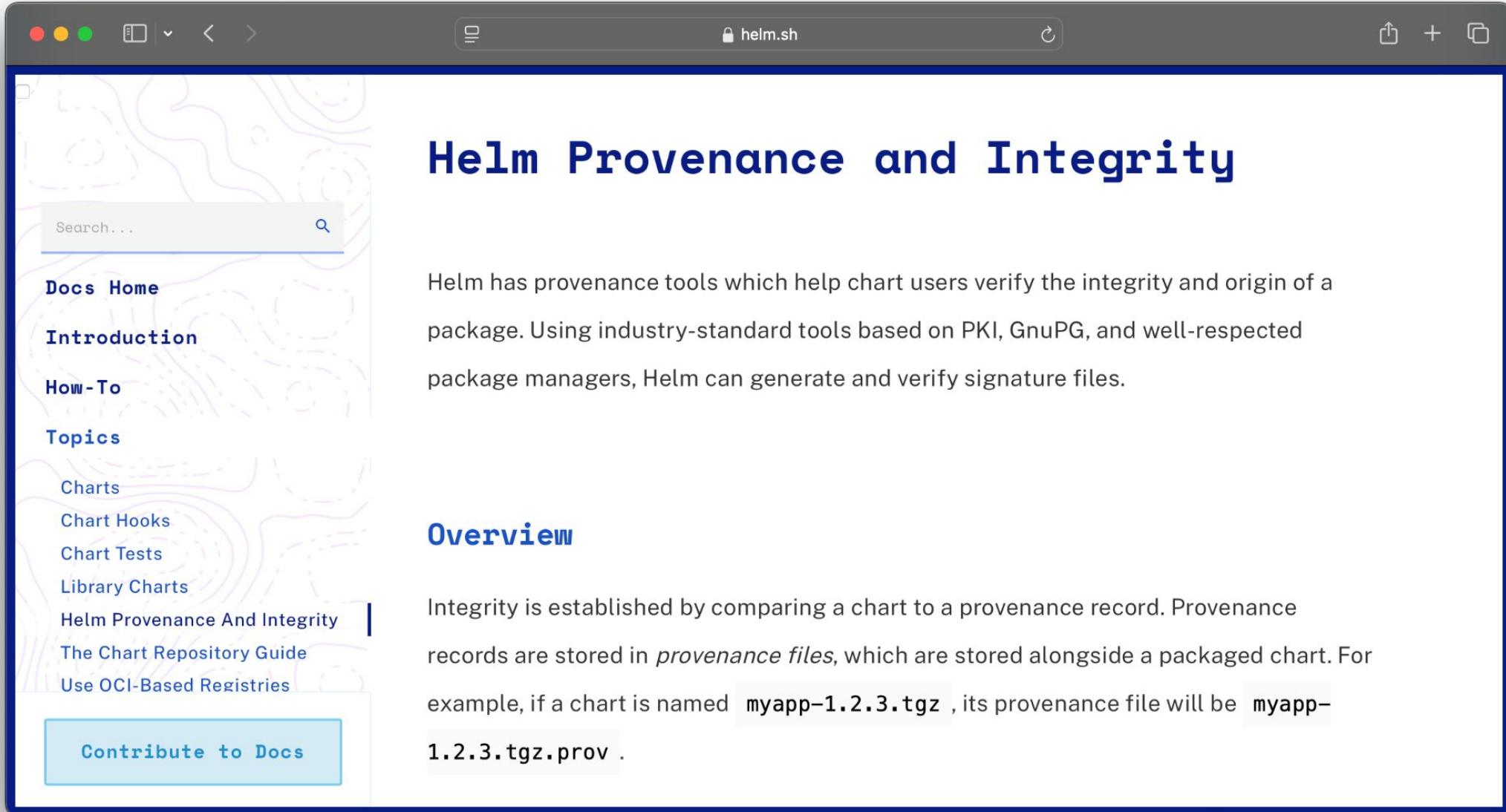
Signing

The screenshot shows a web browser window displaying the [ArtifactHub.io](https://artifacthub.io) website. The URL bar shows the address `artifacthub.io`. The main navigation bar includes links for **DOCS**, **STATS**, **SIGN UP**, **SIGN IN**, and a gear icon for settings. A search bar at the top right contains the placeholder text "Search packages".

The central content area features a package card for **Verify Image Signatures**. The card includes a small icon of a container, the package name, and two status indicators: **Kubewarden policy** and **Security**. Below the package name are two developer-related links: **Kubewarden Developers** and **Verify Image Signatures**. To the right of the card are social sharing icons for GitHub, LinkedIn, and other platforms, along with a "Star" button showing 2 stars, a notification bell, and a trophy icon.

The main description of the package states: "A Kubewarden Policy that verifies all the signatures of the container images referenced by a Pod". Below this description is a detailed view of the package's configuration, showing a "Signed" status, a note that it has been signed, and the signature tool used: `cosign`.

At the bottom of the page, there is a summary section for the package. It shows the package name **Verify Image Signatures** again, its status as **STABLE**, and two buttons: **INSTALL** and **CHANGELOG**.



The screenshot shows a web browser window with the URL `helm.sh` in the address bar. The page content is the **Helm Provenance and Integrity** documentation. On the left, there's a sidebar with a search bar and links to various Helm documentation sections: Docs Home, Introduction, How-To, Topics, Charts, Chart Hooks, Chart Tests, Library Charts, Helm Provenance And Integrity (which is the current page), The Chart Repository Guide, and Use OCI-Based Registries. At the bottom of the sidebar is a blue button labeled "Contribute to Docs". The main content area features a large title "Helm Provenance and Integrity" and a paragraph explaining that Helm has tools for verifying chart integrity and origin using PKI, GnuPG, and package managers. Below this is a section titled "Overview" with text about how integrity is established by comparing charts to provenance records stored in files like `myapp-1.2.3.tgz.prov`.

Helm Provenance and Integrity

Helm has provenance tools which help chart users verify the integrity and origin of a package. Using industry-standard tools based on PKI, GnuPG, and well-respected package managers, Helm can generate and verify signature files.

Overview

Integrity is established by comparing a chart to a provenance record. Provenance records are stored in *provenance files*, which are stored alongside a packaged chart. For example, if a chart is named `myapp-1.2.3.tgz`, its provenance file will be `myapp-1.2.3.tgz.prov`.

Chart.yaml

```
● ● ●

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

Not Everything Supports Signing

The screenshot shows a web browser window with the URL `artifactoryhub.io`. The page displays the `add-network-policy 1.0.0 · kyverno/kyverno-policies` package. The package icon is a white cube with a network diagram. The title is **Add Network Policy**, and it is categorized under **Kyverno Policies**. A note indicates it is a **Kyverno policy**. The package has 2 stars and 2 reviews. The main description explains that Kubernetes allows all communications by default and requires NetworkPolicy resources and CNI plug-ins to restrict them. A specific note states: "Artifact Hub does not support any form of signature for this package kind yet." This note is highlighted with a red rectangular box. On the right side of the page, there are **INSTALL** and **CHANGELOG** buttons.



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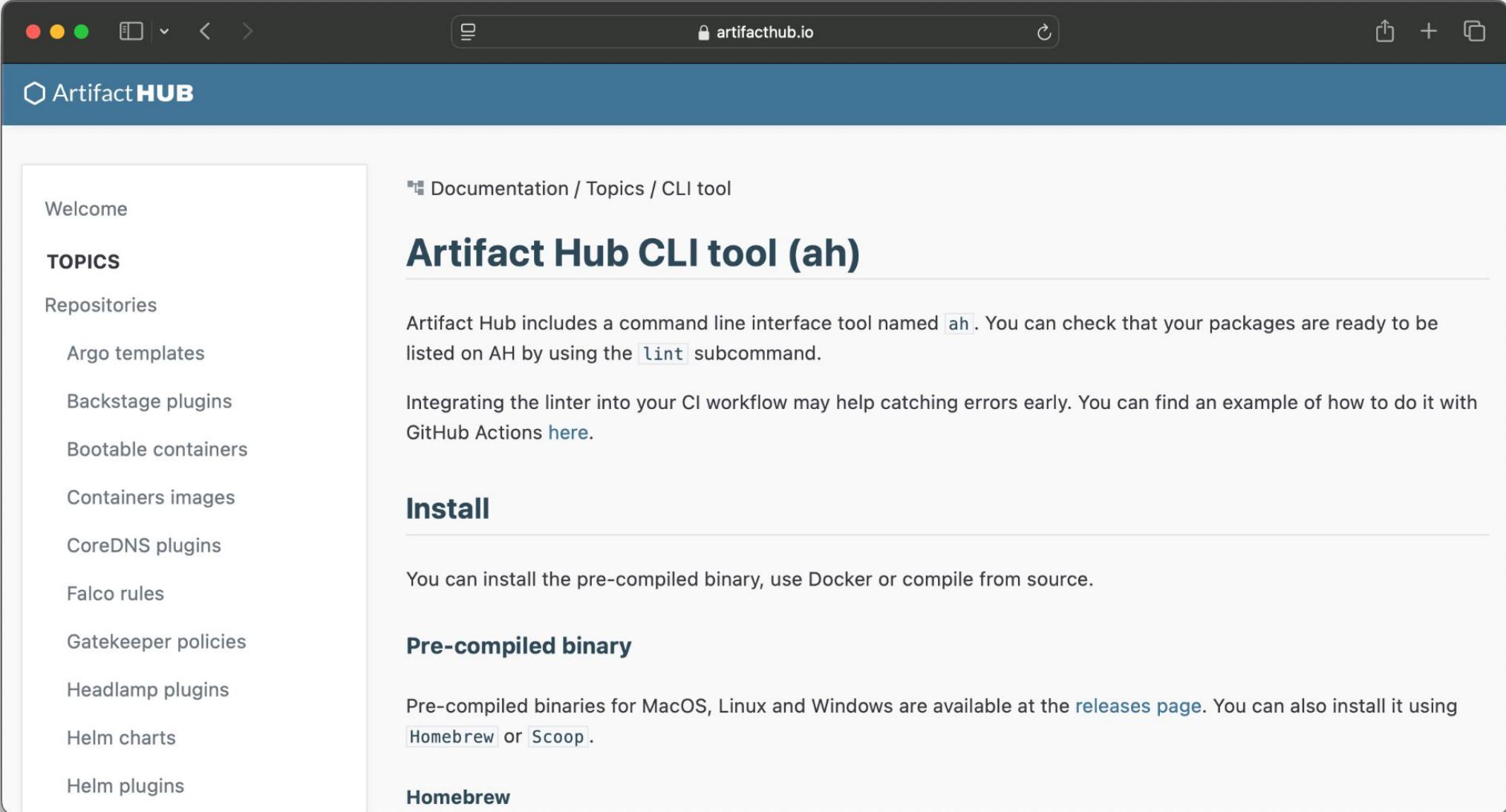


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Linting & Learning





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

The screenshot shows a web browser window with a dark theme. The address bar displays 'artifacthub.io'. The main content area is titled 'Install' and contains instructions for installing the Artifactory Hub CLI. A sidebar on the left lists various components: 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, and 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/artifactoryhub/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



```
$ 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



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

Linting

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

v ah-demo 0.1.0 (ah-demo)

Package lint SUCCEEDED!

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

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

Linting

```
$ ah lint --kind kubewarden

v cel-policy 1.2.2 (.)

Package lint SUCCEEDED!

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

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



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Embedding



Embedding

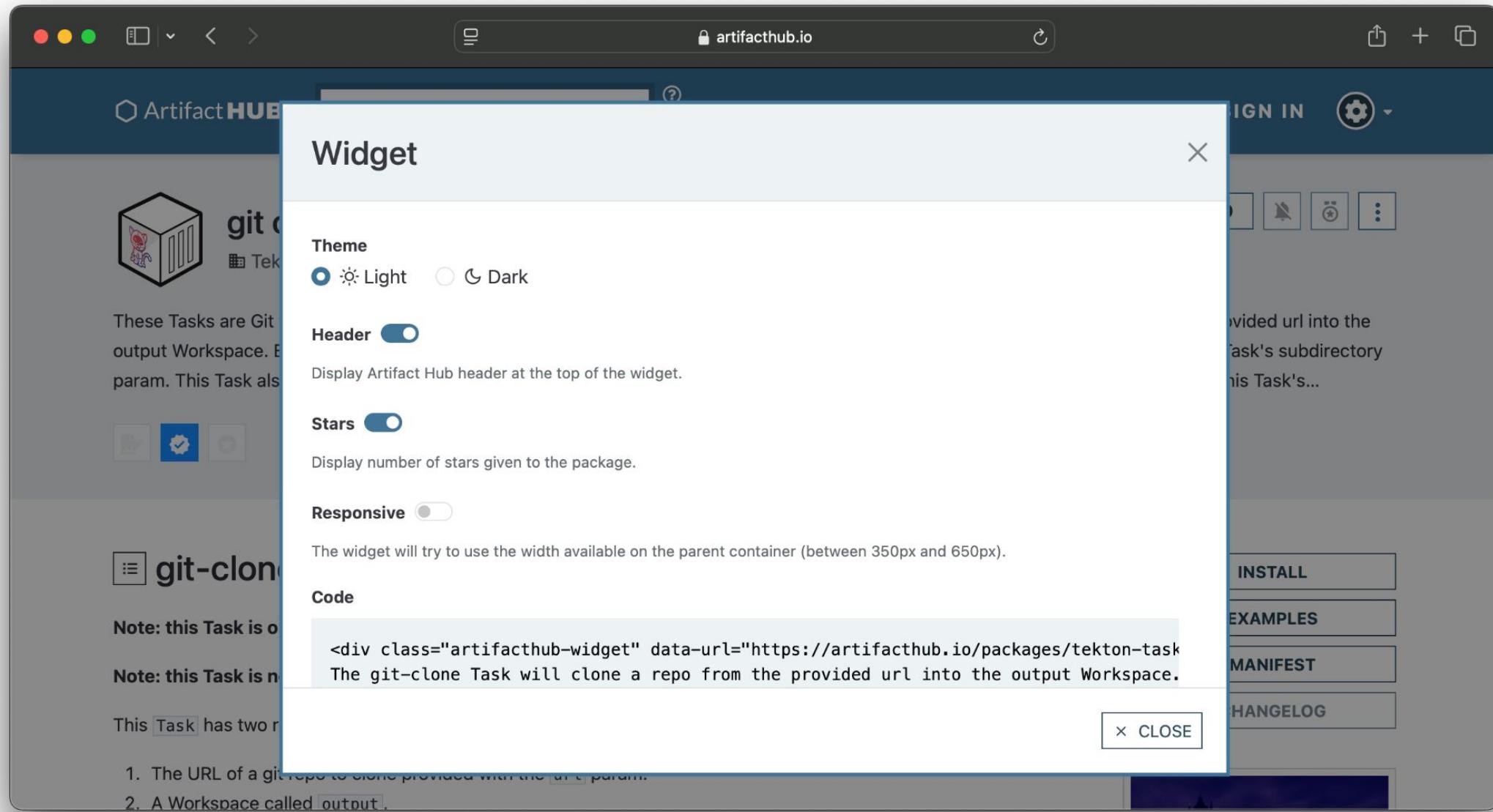
The screenshot shows a web browser window displaying the artifacthub.io website. The URL bar shows the address `artifacthub.io`. The main content area displays the **git clone** task page. At the top right of the page, there is a sidebar with several options:

- Star (with a count of 10)
- Embed widget
- Report abuse

A red box highlights this sidebar. Below the sidebar, the page content includes:

- git clone** (Tekton task, Integration and delivery)
- Categories: Tekton, Tekton Catalog Tasks
- Description: A detailed explanation of the task's purpose and usage.
- Subscription count: 5
- Task details: **git-clone**, compatibility notes, and required inputs.
- Action buttons: INSTALL, EXAMPLES, MANIFEST, and CHANGELOG.

Embedding



Embedding

The screenshot shows a web browser window displaying the [ArtifactHub](https://artifacthub.io) website. The URL bar at the top shows "artifacthub.io". The page header includes the ArtifactHUB logo, a search bar with placeholder "Search packages", and navigation links for "DOCS", "STATS", "SIGN UP", "SIGN IN", and a gear icon.

The main content area displays a search result for "git clone" tasks. The results are filtered by "Verified publisher" and "KIND: Tekton tasks". There are 207 results shown, with the first two listed:

- git clone**
Tekton Catalog Tasks
These Tasks are Git tasks to work with repositories used by other tasks in your Pipeline. The git-clone Task will clone a ..
Integration and delivery
- Verify Enterprise Contract**
Enterprise Contract Verify Enterprise Contract
Verify the enterprise contract is met

On the left side, there is a sidebar with "FILTERS" and "KIND" sections. The "FILTERS" section has checkboxes for "Official", "Verified publishers" (which is checked), and "CNCF". The "KIND" section lists various types of packages with their counts: Containers images (117), Gatekeeper policies (47), Headlamp plugins (8), Helm charts (5454), Helm plugins (16), and Inspektor gadgets (34).

Embedding

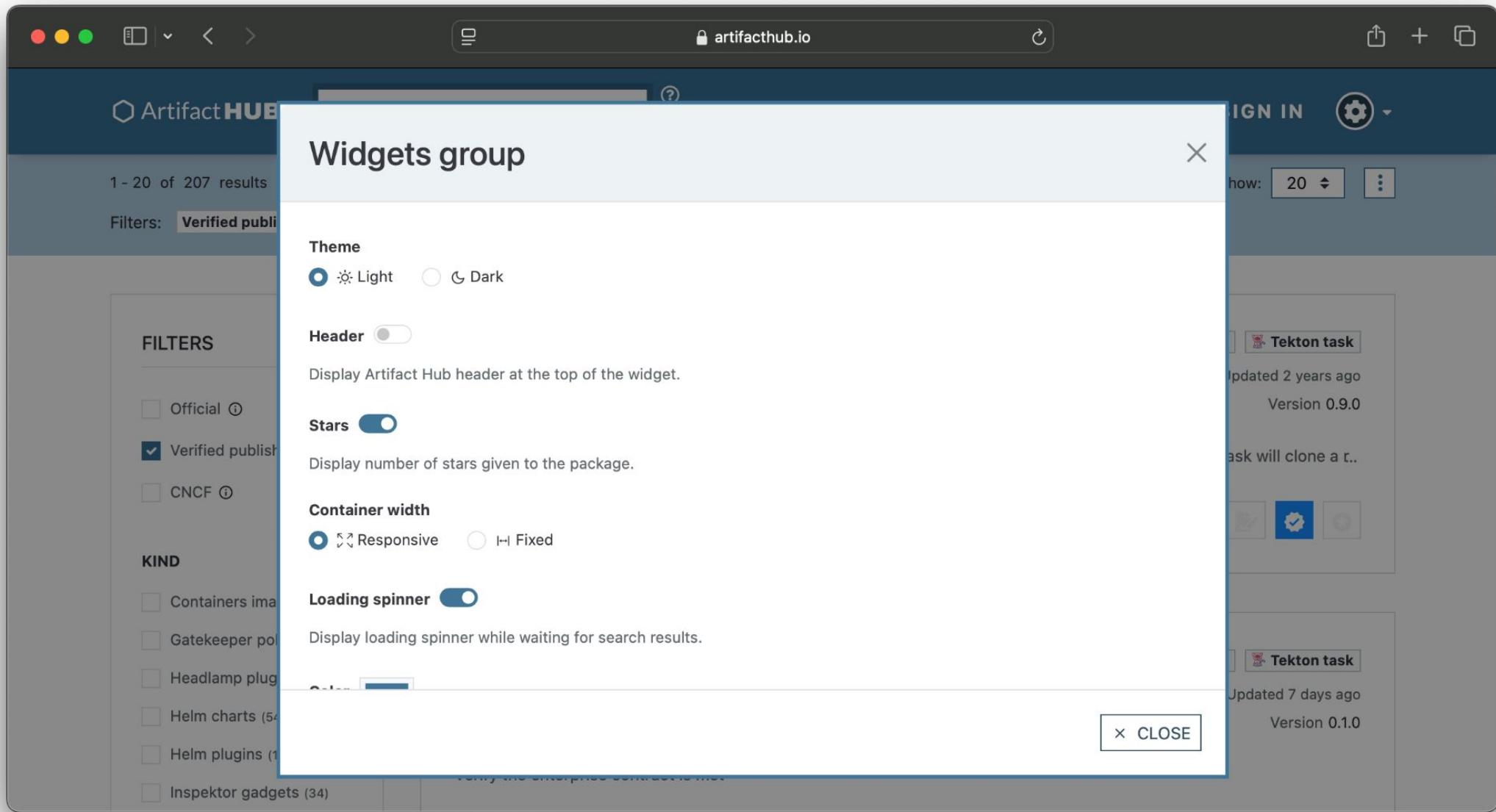
The screenshot shows the ArtifactHub website interface. At the top, there's a search bar with the placeholder "Search packages". Below it, a blue header bar contains the "Artifact HUB" logo, a search icon, and navigation links for "DOCS", "STATS", "SIGN UP", "SIGN IN", and a gear icon. A red box highlights a dropdown menu in the top right corner labeled "Show: 20" and "Embed results".

On the left, a sidebar has "FILTERS" and "KIND" sections. Under "FILTERS", "Verified publishers" is checked. Under "KIND", several options like "Containers images", "Gatekeeper policies", and "Helm charts" are listed.

The main content area displays two "Tekton tasks":

- git clone**: A Tekton Catalog Task. It has a star rating of 10, was updated 2 years ago, and is at version 0.9.0. It's described as a Git task for cloning repositories. There are three small icons below the details.
- Verify Enterprise Contract**: An Enterprise Contract task. It has a star rating of 6, was updated 7 days ago, and is at version 0.1.0. It's described as verifying an enterprise contract. There are three small icons below the details.

Embedding





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Webhooks



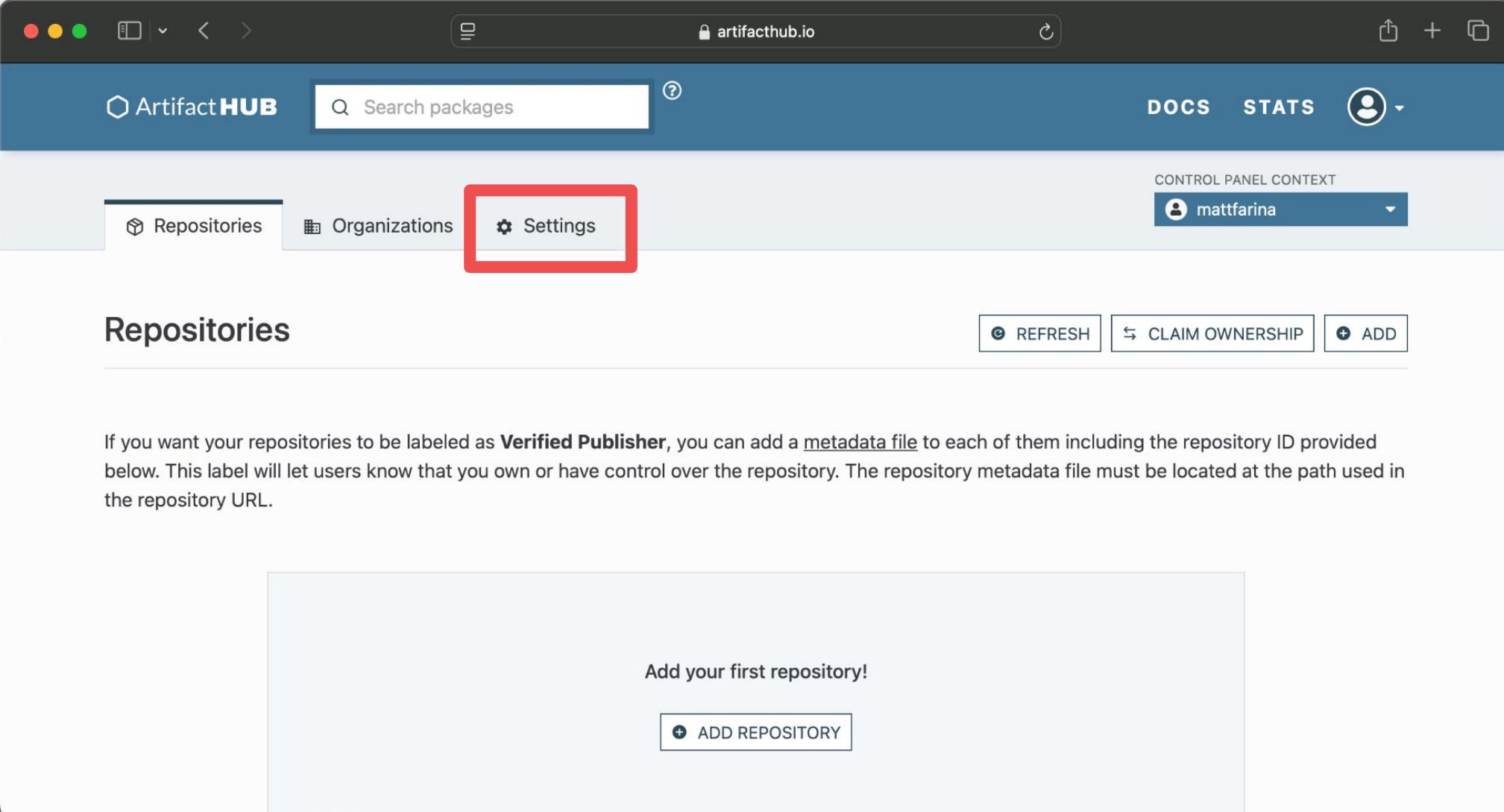
Webhooks

The screenshot shows a web browser window displaying the [ArtifactHub](https://artifacthub.io) website. The page has a dark blue header with the **Artifact HUB** logo and navigation links for **DOCS** and **STATS**. A user profile icon is visible in the top right corner, which is expanded to show a dropdown menu. The menu includes the following items:

- Signed in as **mattfarina**
- THEME
 - Automatic
 - Light
 - Dark
- ★ Starred packages
- Control Panel** (This item is highlighted with a red rectangular box.)
- Sign out

Below the dropdown menu, there is a search bar with the placeholder "Search packages" and a tip: "Tip: Use - to exclude words from your search. Example: apache -solr -hadoop". There are also links for "Browse all packages", sample queries, and various package categories like "Tekton tasks and pipelines", "Helm Charts in the storage category", "Falco rules for CVE", "Keptn integrations", and "Official Prometheus packages". At the bottom, there are two large numbers: 16793 and 337298, likely representing the count of packages.

Webhooks



The screenshot shows a web browser window for artifacthub.io. The header includes the ArtifactHub logo, a search bar, and navigation links for DOCS and STATS. A user profile for "mattfarina" is shown in the top right. The main navigation bar has three tabs: "Repositories" (selected), "Organizations", and "Settings". The "Settings" tab is highlighted with a red box. Below the navigation, the title "Repositories" is displayed, along with buttons for REFRESH, CLAIM OWNERSHIP, and ADD. A text block explains how to add a metadata file to repositories to be labeled as "Verified Publisher". At the bottom, there is a large input field placeholder "Add your first repository!" and a "ADD REPOSITORY" button.

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



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The screenshot shows a web browser window for artifacthub.io. The user is logged in as **mattfarina**. The main navigation bar includes links for **DOCS**, **STATS**, and a user icon. Below the bar, there are tabs for **Repositories**, **Organizations**, and the currently selected **Settings**. On the left, a sidebar menu lists **Profile**, **Subscriptions**, **Webhooks** (which is highlighted with a red box), and **API keys**. The main content area is titled **Profile information** and contains fields for **Profile image** (with a camera icon), **Email** (input field), **Username (Required)** (input field containing **mattfarina**), and **First Name** (input field).

Webhooks



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The screenshot shows the 'Settings' tab of the Artifact Hub interface. On the left, a sidebar menu includes 'Profile', 'Subscriptions', 'Webhooks' (which is selected and highlighted in blue), and 'API keys'. The main content area is titled 'Webhooks' and contains the following text: 'Webhooks notify external services when certain events happen.' Below this, a message states: 'You have not created any webhook yet. You can create your first one by clicking on the button below.' A prominent 'ADD WEBHOOK' button is located at the bottom of this message box.

Artifact HUB

Search packages

DOCS STATS

Repositories Organizations Settings

CONTROL PANEL CONTEXT

mattfarina

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

The screenshot shows a web browser window for artifacthub.io. The URL bar indicates the site is artifacthub.io. The main content is a form for creating a new webhook. On the left, a sidebar menu includes 'Subscriptions', 'Webhooks' (which is selected and highlighted in blue), and 'API keys'. The main form fields are:

- Name (Required)**: An input field.
- Description**: A text area.
- Url (Required)**: An input field with placeholder text: "A POST request will be sent to the provided URL when any of the events selected in the triggers section happens."
- Secret**: A text area with placeholder text: "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**: A toggle switch that is currently turned on (blue).

Below the Active toggle, a note states: "This flag indicates if the webhook is active or not. Inactive webhooks will not receive notifications."

The screenshot shows the 'Triggers' configuration page on artifacthub.io. At the top, there's a search bar labeled 'Search packages'. Below it, under the heading 'Events', two options are listed: 'New releases' (checked) and 'Security alerts' (unchecked). A note below the events says: '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.' There's a search input field for packages. Under the 'Payload' section, 'Default payload' is selected over 'Custom payload'. The 'Request Content-Type' is set to 'application/cloudevents+json'.

Artifact HUB

Search packages

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.

Q

Payload

Default payload Custom payload

Request Content-Type

application/cloudevents+json

The screenshot shows a web browser window for artifacthub.io. The title bar says "artifacthub.io". The main content area is titled "Payload". It has two radio button options: "Default payload" (unchecked) and "Custom payload" (checked). Below the radio buttons is a text area containing a JSON template for a webhook payload:

```
{  
  "text": "Package {{ .Package.Name }} version {{ .Package.Version }} released! {{ .Package.URL }}"  
}
```

Below the template is a section titled "Request Content-Type" with a dropdown menu set to "application/json". At the bottom, there is a section titled "Template" with the following text:
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

The screenshot shows a web browser window displaying the Artifactory Hub interface at artifactoryhub.io. The search bar contains "Search packages". The main content area shows the "sigstore" Helm plugin and the "helm-sigstore" package.

sigstore Helm plugin

- Icon: Container icon with "HELM" logo.
- Name: sigstore Helm plugin
- Version: sigstore
- Downloads: sigstore
- Star count: 3
- Actions: Star, 3, Bell, Sync, More

This plugin integrates Helm into the Sigstore ecosystem.

helm-sigstore

- Icon: Container icon with "HELM" logo.
- Name: helm-sigstore
- Artifact Hub: helm-sigstore
- SLSA: level 3
- Description: Plugin for Helm to integrate the sigstore ecosystem. Search, upload and verify signed Helm Charts in the Rekor Transparency Log.
- Actions: Install

Info

A small image in the bottom right corner shows the KubeCon + CloudNativeCon Europe 2025 logo with the text "1-4 April, 2025 London, England #kubecon #cloudnativecon".

Subscriptions

The screenshot shows the Artifactory Hub interface. At the top, there's a search bar with the placeholder "Search packages". Below it, a navigation bar includes links for "DOCS", "STATS", and a user profile icon. A sidebar on the left has a "Back to search results" link.

sigstore Helm plugin

This plugin integrates Helm into the Sigstore ecosystem.

helm-sigstore

Plugin for Helm to integrate the sigstore ecosystem. Search, upload and verify signed Helm Charts in the Rekor Transparency Log.

Info

Subscription options (visible on the right):

- New releases: Receive a notification when a new version of this package is released.
- Security alerts: Receive a notification when important security vulnerabilities are found in the latest version of this package.

INSTALL

A small image at the bottom right shows the KubeCon + CloudNativeCon Europe 2025 logo with the text "1-4 April, 2025 London, England #kubecon #cloudnativecon".

Subscriptions

The screenshot shows the 'Subscriptions' page on artifacthub.io. The top navigation bar includes the ArtifactHUB logo, a search bar, and links for DOCS and STATS. A user profile for mattfarina is shown in the top right. The main content area is titled 'Your subscriptions' and features a sidebar with options: Profile, Subscriptions (which is selected), Webhooks, and API keys. Below this is a section titled 'Packages' with an 'ADD' button. A message states: 'You will receive an email notification when an event that matches any of the subscriptions in the list is fired.' A table lists one subscription:

| Kind | Package | Publisher | New releases | Security alerts |
|------|----------|---------------------------|-------------------------------------|--------------------------|
| HELM | sigstore | sigstore (REPO: sigstore) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

At the bottom, there's a 'Repositories' section with an 'OPT-OUT' button.



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The API



The screenshot shows a web browser displaying the [Artifact Hub API documentation](https://artifacthub.io/docs/api/). The URL is visible in the address bar: `https://artifacthub.io/docs/api/`. The page title is "Artifact HUB". Below it, the main heading is "Artifact Hub 1.20.0 OAS3". A link to "openapi.yaml" is present. The subtext "Find, install and publish Cloud Native packages" is followed by a link to "Artifact Hub support - Website". On the left, there's a "Servers" dropdown set to "/api/v1" and an "Authorize" button with a lock icon. The main content area is titled "Users" and contains two API endpoints: "POST /users Register a new user" and "POST /users/verify-email Verify user's email address".

The screenshot shows a web browser displaying the [Artifact Hub API documentation](https://artifacthub.io/docs/api/). The URL is visible in the address bar: `https://artifacthub.io/docs/api/`.

The page title is **Artifact Hub**, version **1.20.0**, with the **OAS3** badge.

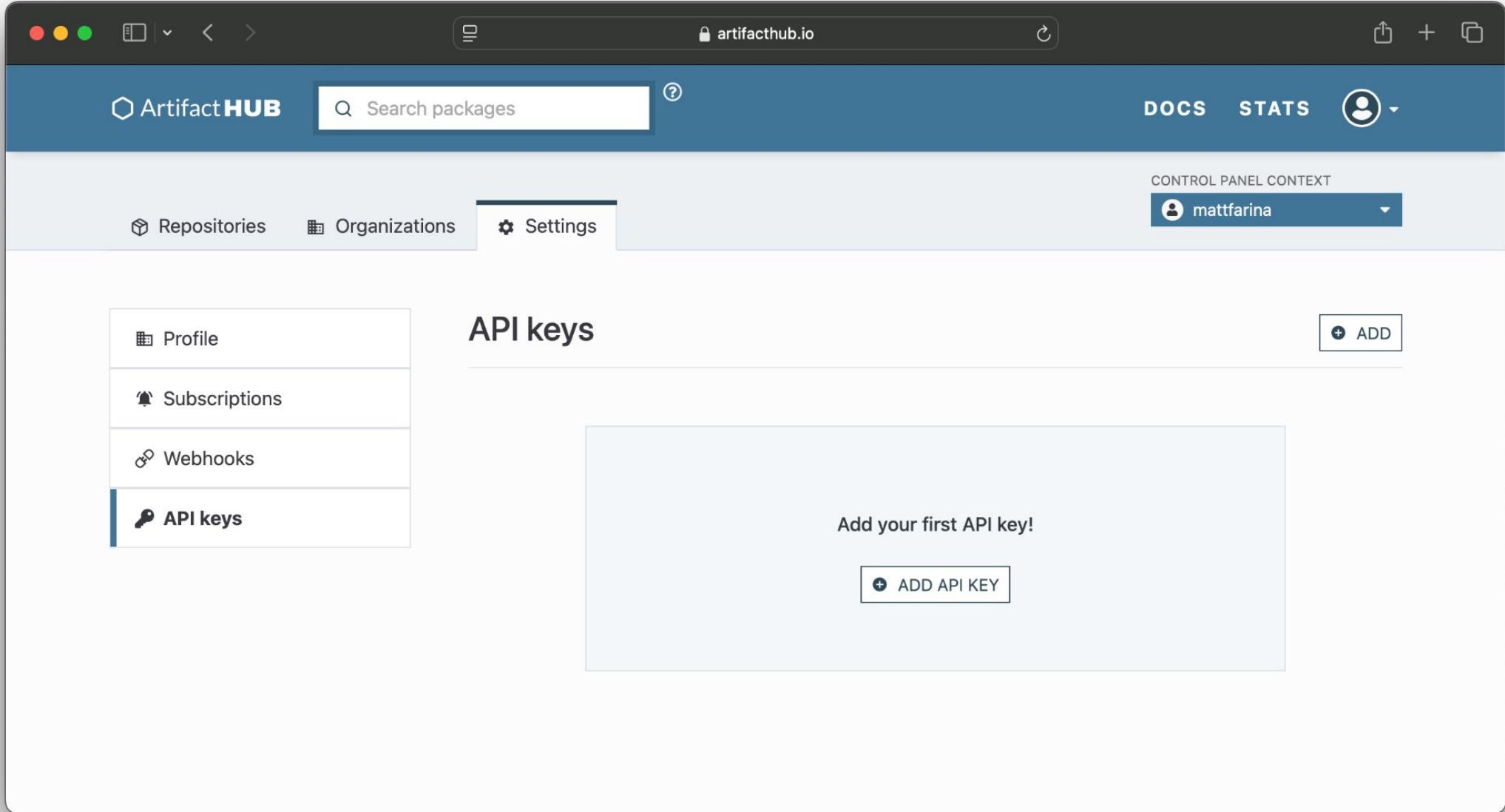
Key links include [openapi.yaml](#), [Find, install and publish Cloud Native packages](#), and [Artifact Hub support - Website](#).

A dropdown menu labeled **Servers** shows `/api/v1` selected. To the right is a green button with a lock icon labeled **Authorize**, which is highlighted with a red box.

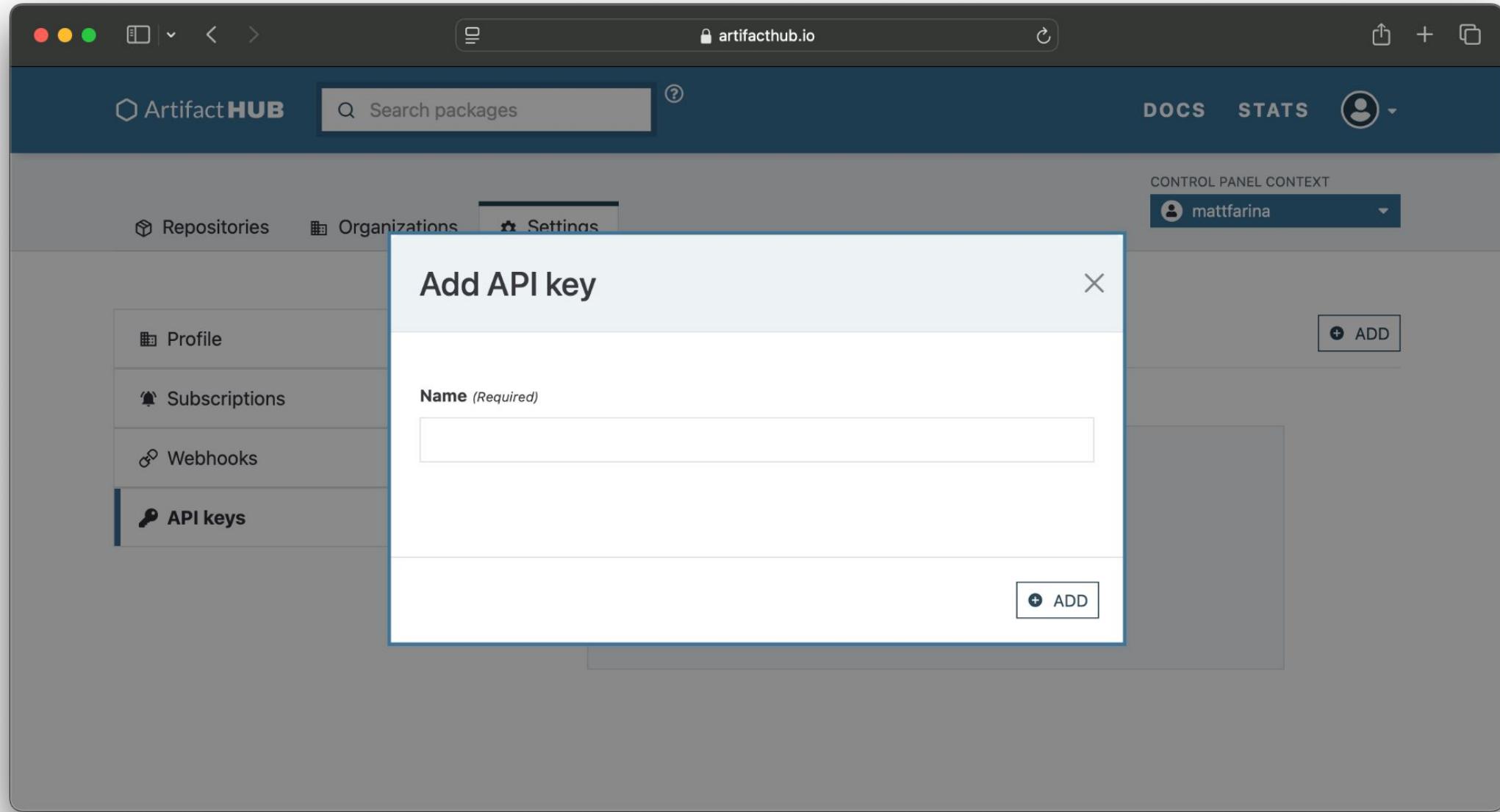
Users

API endpoints for the `/users` resource:

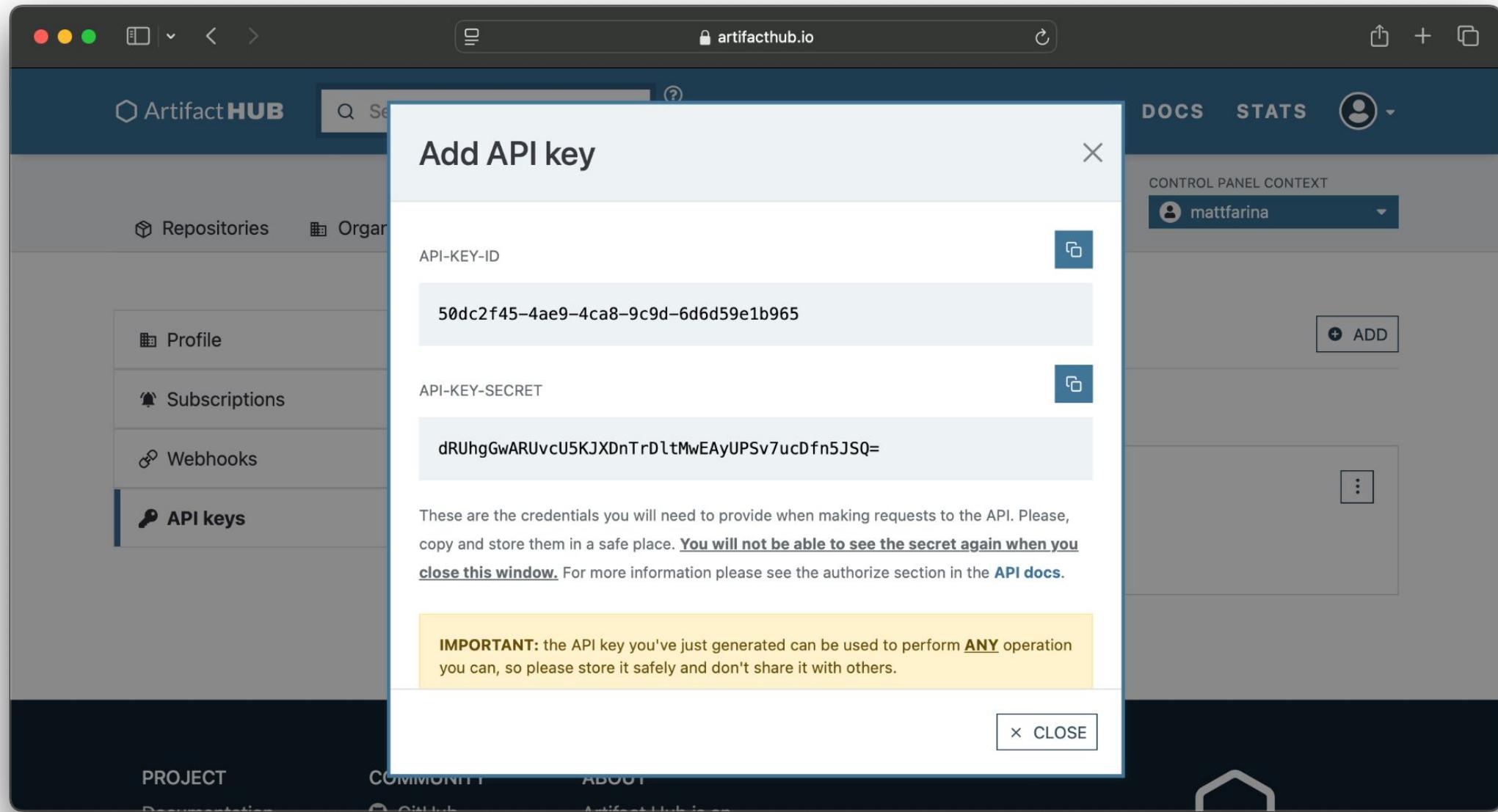
- POST /users** Register a new user
- POST /users/verify-email** Verify user's email address



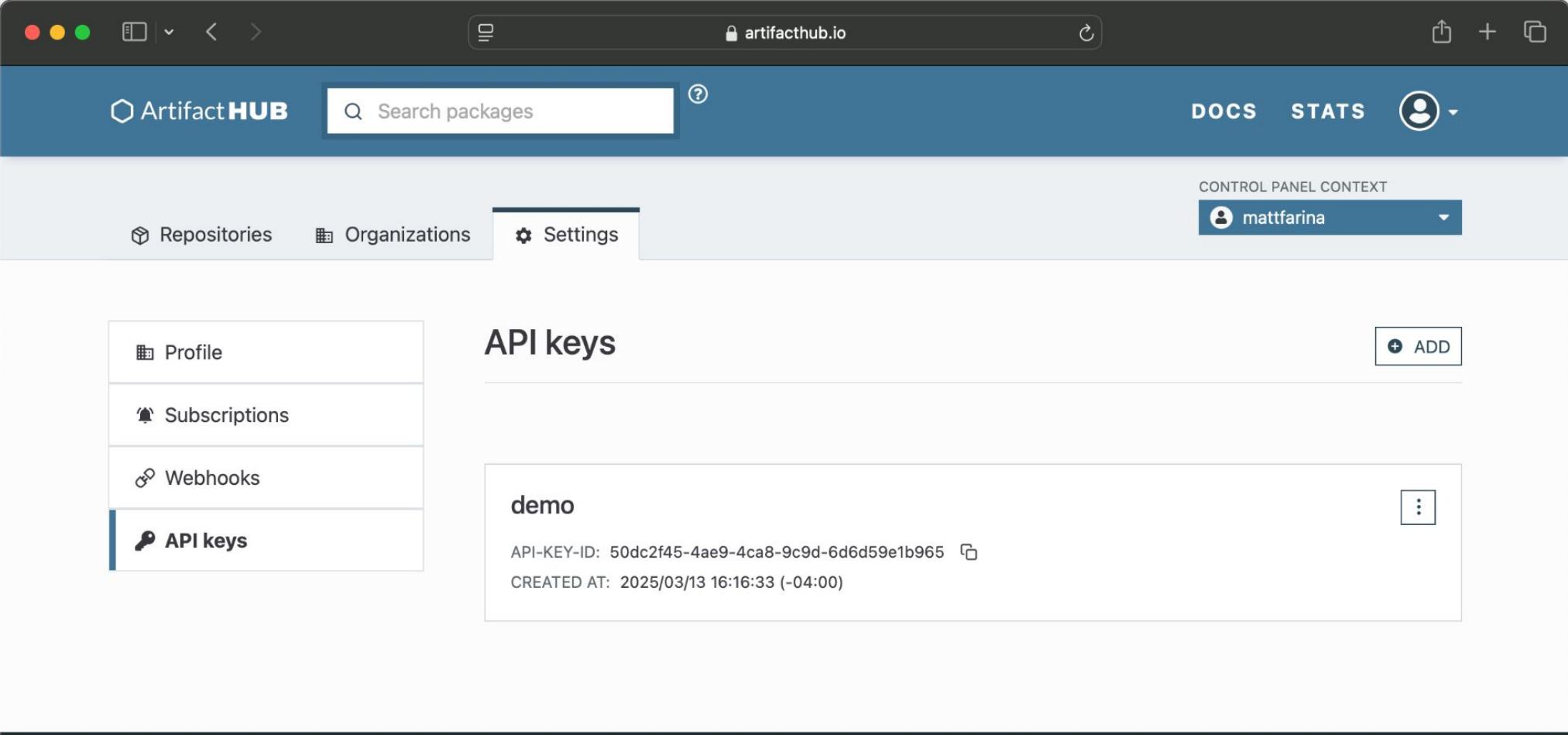
The screenshot shows a web browser window for artifacthub.io. The user is logged in as **mattfarina**. The main navigation bar includes links for **DOCS**, **STATS**, and a user profile icon. Below the bar, there are tabs for **Repositories**, **Organizations**, and the currently selected **Settings**. On the left, a sidebar menu lists **Profile**, **Subscriptions**, **Webhooks**, and **API keys**, with **API keys** being the active item. The main content area is titled **API keys** and contains the message **Add your first API key!** followed by a button labeled **+ ADD API KEY**.



The screenshot shows a web browser window for artifacthub.io. The user is logged in as **mattfarina**. The main navigation bar includes links for **DOCS**, **STATS**, and a user icon. Below the bar, there are tabs for **Repositories**, **Organizations**, and **Settings**, with **Settings** being the active tab. On the left, a sidebar lists **Profile**, **Subscriptions**, **Webhooks**, and **API keys**, where **API keys** is currently selected. A modal dialog titled **Add API key** is open in the center of the screen. It contains a **Name (Required)** input field and a **+ ADD** button at the bottom right. The background of the page shows a search bar and some placeholder text.



The screenshot shows a web browser window for artifacthub.io. The main navigation bar includes links for **DOCS**, **STATS**, and a user profile icon. On the left, a sidebar menu lists **Profile**, **Subscriptions**, **Webhooks**, and **API keys**, with the latter being the active tab. The main content area displays a modal titled **Add API key**. Inside the modal, two fields are shown: **API-KEY-ID** containing the value `50dc2f45-4ae9-4ca8-9c9d-6d6d59e1b965` and **API-KEY-SECRET** containing the value `dRUhgGwARUvcU5KJXDnTrDltMwEAyUPSv7ucDfn5JSQ=`. Below these fields is a note: "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](#)." At the bottom of the modal is a yellow box with the text: "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." A **CLOSE** button is located at the bottom right of the modal.



The screenshot shows a web browser window for artifacthub.io. The user is logged in as **mattfarina**. The main navigation bar includes links for **DOCS**, **STATS**, and a user profile icon. Below the bar, there are tabs for **Repositories**, **Organizations**, and the currently selected **Settings**. On the left, a sidebar menu lists **Profile**, **Subscriptions**, **Webhooks**, and **API keys**, with **API keys** being the active item. The main content area is titled **API keys** and contains a single entry for a key named **demo**. The key details are: **API-KEY-ID: 50dc2f45-4ae9-4ca8-9c9d-6d6d59e1b965** (with a copy icon), **CREATED AT: 2025/03/13 16:16:33 (-04:00)**, and a three-dot menu icon.

PROJECT COMMUNITY ABOUT

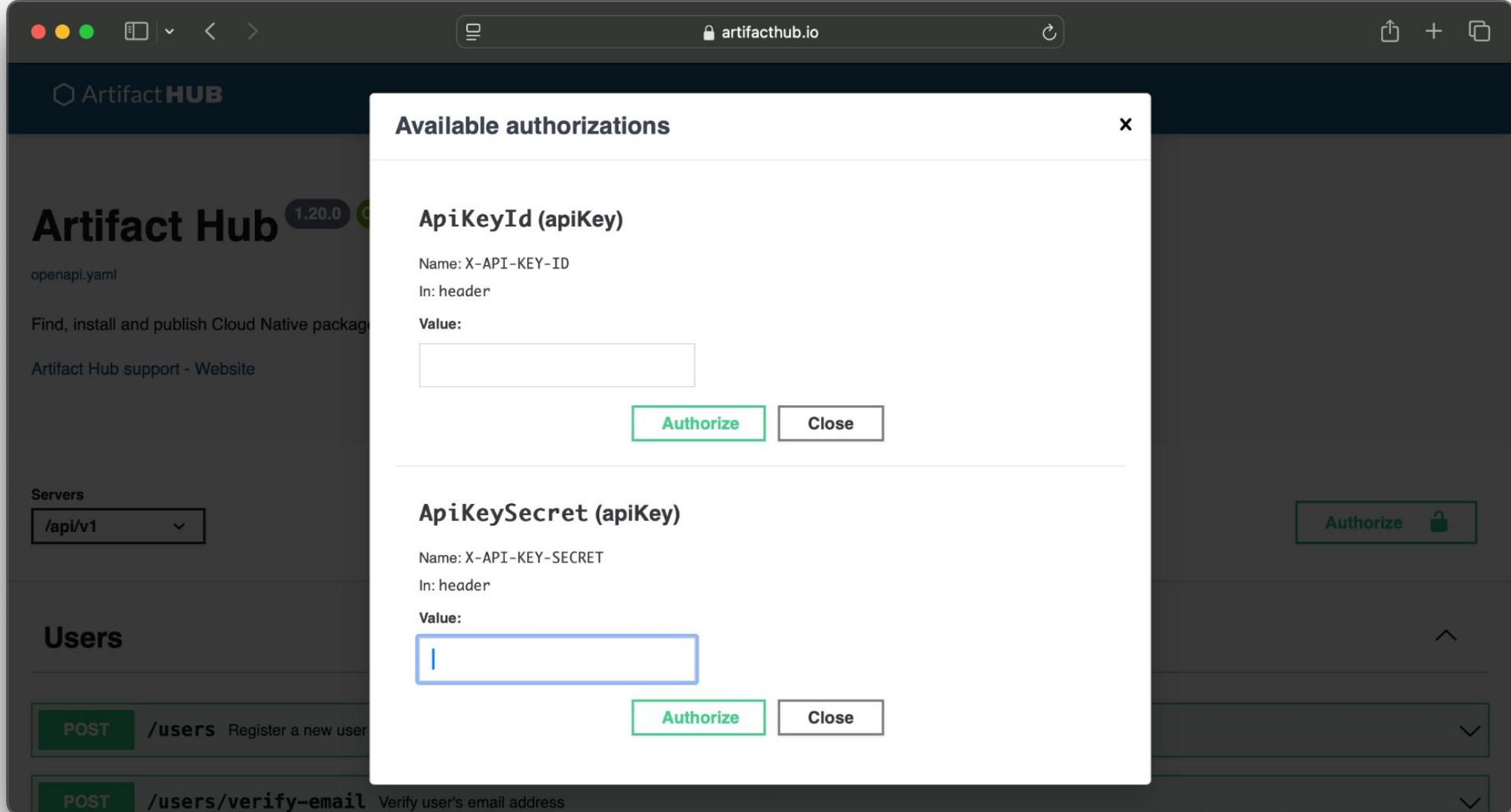
Documentation GitHub API Reference

API keys

demo

API-KEY-ID: 50dc2f45-4ae9-4ca8-9c9d-6d6d59e1b965

CREATED AT: 2025/03/13 16:16:33 (-04:00)



The screenshot shows the Artifact Hub UI with a modal dialog titled "Available authorizations". The dialog lists two entries:

- ApiKeyId (apiKey)**
 - Name: X-API-KEY-ID
 - In: header
 - Value:
- ApiKeySecret (apiKey)**
 - Name: X-API-KEY-SECRET
 - In: header
 - Value:

Each entry has an "Authorize" button (highlighted in green) and a "Close" button.

The background of the Artifact Hub shows the "Users" section with "POST /users" and "POST /users/verify-email" endpoints.



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Org Authorization



Authorization

The screenshot shows the Artifact Hub UI interface. At the top, there is a navigation bar with tabs for "Artifact HUB", "DOCS", "STATS", and a user profile icon. Below the navigation bar, there is a search bar with the placeholder "Search packages". The main content area is titled "Repositories". On the right side of the main content area, there are three buttons: "REFRESH", "CLAIM OWNERSHIP", and "ADD". Below the main content area, there is a section titled "Artifact Hub CLI" containing the following information:

- ID: d0201666-b864-44aa-8bc9-a9b5172eb5b0
- URL: <oci://index.docker.io/artifacthub/ah>
- LAST PROCESSED: 14 minutes ago (next check in ~ 10 minutes)
- LAST SECURITY SCAN: 21 hours ago (next scan in ~ 25 minutes)

Authorization

The screenshot shows a web browser window for artifactoryhub.io. The title bar includes standard OS X icons (red, yellow, green circles) and a search bar. The main header features the "Artifact HUB" logo, a search bar with placeholder "Search packages", and navigation links for "DOCS" and "STATS". A user icon with a dropdown arrow is also present.

The navigation bar below includes tabs for "Repositories", "Members" (which is selected), and "Settings". To the right, a "CONTROL PANEL CONTEXT" dropdown is set to "helm".

The main content area is titled "Members" and contains two entries:

- Helm Project** (helm): This entry has a user icon, the name "Helm Project", the handle "helm", and a three-dot menu icon.
- Matt Farina** (mattfarina): This entry has a user icon, the name "Matt Farina", the handle "mattfarina", and a three-dot menu icon.

A "INVITE" button is located in the top right corner of the member list area.

Authorization

Welcome

TOPICS

- Repositories
- Argo templates
- Backstage plugins
- Bootable containers
- Containers images
- CoreDNS plugins
- Falco rules
- Gatekeeper policies
- Headlamp plugins
- Helm charts

Documentation / Topics / Authorization

Authorization

Artifact Hub includes a fine-grained authorization mechanism that allows organizations to define what actions can be performed by their members. It is based on customizable authorization policies that are enforced by the [Open Policy Agent](#). Policies are written using [rego](#) and their data files are expected to be [json](#) documents. Out of the box, when the authorization mechanism is disabled, all members of an organization can perform all actions on it.

Authorization can be set up using [predefined](#) or [custom policies](#) from the Artifact Hub control panel, in the organization settings tab.

Using predefined policies

Using a predefined policy is the easiest way of setting up authorization in Artifact Hub. In this case, organizations only need to provide [a data file](#) in json format that conforms to the policy. This data file will define what actions each of the members are allowed to perform, and its structure is tightly coupled to the policy. At the moment only one predefined policy, named `rbac.v1`, is available. It's a flexible roles based authorization policy that can be easily customized.

Authorization

Documentation / Topics / Authorization

Authorization

Artifact Hub includes a fine-grained authorization mechanism that allows organizations to define what actions can be performed by their members. It is based on customizable authorization policies that are enforced by the [Open Policy Agent](#). Policies are written using `rego` and their data files are expected to be `json` documents. Out of the box, when the authorization mechanism is disabled, all members of an organization can perform all actions on it.

Authorization can be set up using [predefined](#) or [custom policies](#) from the Artifact Hub control panel, in the organization settings tab.

Using predefined policies

Using a predefined policy is the easiest way of setting up authorization in Artifact Hub. In this case, organizations only need to provide a **data file** in json format that conforms to the policy. This data file will define what actions each of the members are allowed to perform, and its structure is tightly coupled to the policy. At the moment only one predefined policy, named `rbac.v1`, is available. It's a flexible roles based authorization policy that can be easily customized.

Authorization

The screenshot shows a web browser window for artifacthub.io. The URL bar indicates the site is https://artifacthub.io. The page title is "Authorization". The top navigation bar includes links for "DOCS", "STATS", and a user profile icon. Below the navigation, there's a "CONTROL PANEL CONTEXT" dropdown set to "helm". The main content area has a sidebar on the left with "Profile", "Webhooks", and "Authorization" options, where "Authorization" is selected. The main content area displays the "Authorization" section, which explains fine-grained access control using `rego` and the [Open Policy Agent](#). It includes a toggle for "Fine-grained access control" (which is turned on), a "Select authorization policy:" section with a radio button for "Use predefined policy" (selected) and "Use custom policy", and a dropdown menu showing "rbac.v1". At the bottom, there are tabs for "POLICY" and "DATA".

Authorization

Artifact Hub allows you to setup fine-grained access control based on authorization policies. Authorization policies are written in [rego](#) and they are evaluated using the [Open Policy Agent](#). Depending on your requirements, you can use a predefined policy and only supply a data file, or you can provide your custom policy for maximum flexibility. For more information please see the [documentation](#).

Fine-grained access control

Select authorization policy:

Use predefined policy Use custom policy

rbac.v1

POLICY DATA



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Q&A

