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Kubernetes SIG Docs: A Deep Dive

Brad Topol, IBM

Jim Angel, Google

Chris Metz, Tech Writer

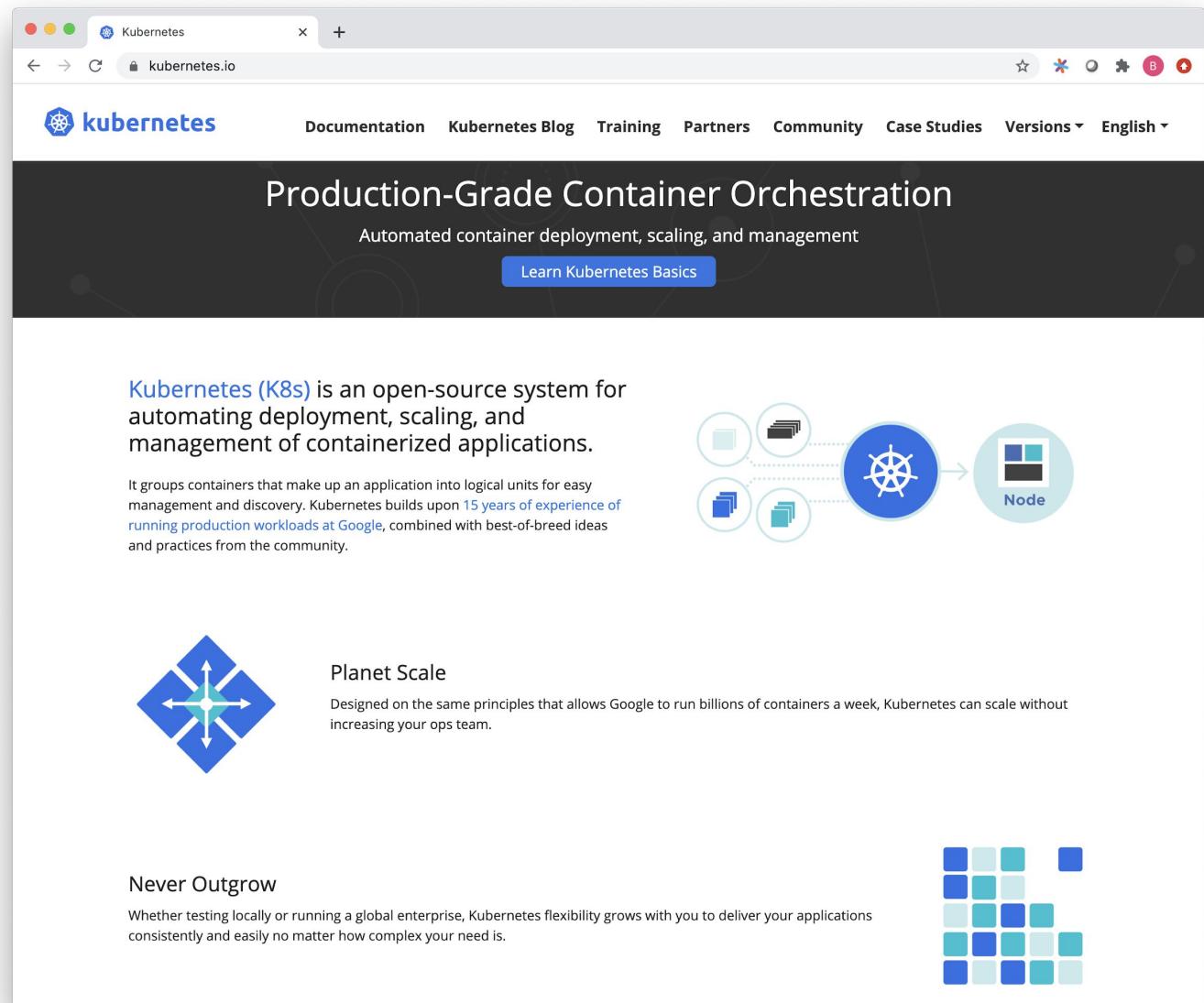
SIG Docs

The documentation special interest group maintains the Kubernetes website at

<https://k8s.io/>

Popular Pages

- </docs/reference/kubectl/cheatsheet/>
- </docs/concepts/services-networking/service/>
- </docs/concepts/services-networking/ingress/>
- </docs/tasks/tools/>
- </docs/concepts/workloads/controllers/deployment/>





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Code and Tech Overview

Source control

Static site generated from Markdown

Source in the GitHub *kubernetes/website* repository:

<https://github.com/kubernetes/website/>

The screenshot shows the GitHub repository page for `kubernetes/website`. The URL in the address bar is `github.com/kubernetes/website/`. The repository has 190 stars, 2.2k forks, and 8.3k issues. The `Code` tab is selected, showing the `master` branch with 37 branches and 44 tags. A recent merge pull request from `k8s-ci-robot` is highlighted, mentioning `#24557` and `tengqm/fix-24542`, committed 6 hours ago by `ad35d64` with 19,455 commits. Below this, a list of other commits is shown, including updates to `.github`, `archetypes`, `assets`, `content`, `data`, `deprecated`, `i18n`, `layouts`, `scripts`, `static`, `themes`, `update-imported-docs`, `.dockerignore`, `.editorconfig`, `.gitignore`, `.gitmodules`, and `.htmltest.yml`. The commits range from 6 hours ago to 2 years ago. To the right of the code list, there are sections for `About` (Kubernetes website and documentation repo), `Releases` (44 releases, latest being `snapshot-initial-v1.19: R...` on Aug 26), `Packages` (No packages published, Publish your first package), and `Contributors` (3,120 contributors, + 3,109 contributors).

Markdown looks similar to plain text, with extra highlighting such as ***bold*** or *italic*.

Markdown also offers you:

- * Lists
- * Hyperlinks: [[Kubernetes](https://k8s.io/)](<https://k8s.io/>)
- * Inline code snippets: `echo Hello World`
- * Tables that render to standards-compliant HTML

Static Site Generator

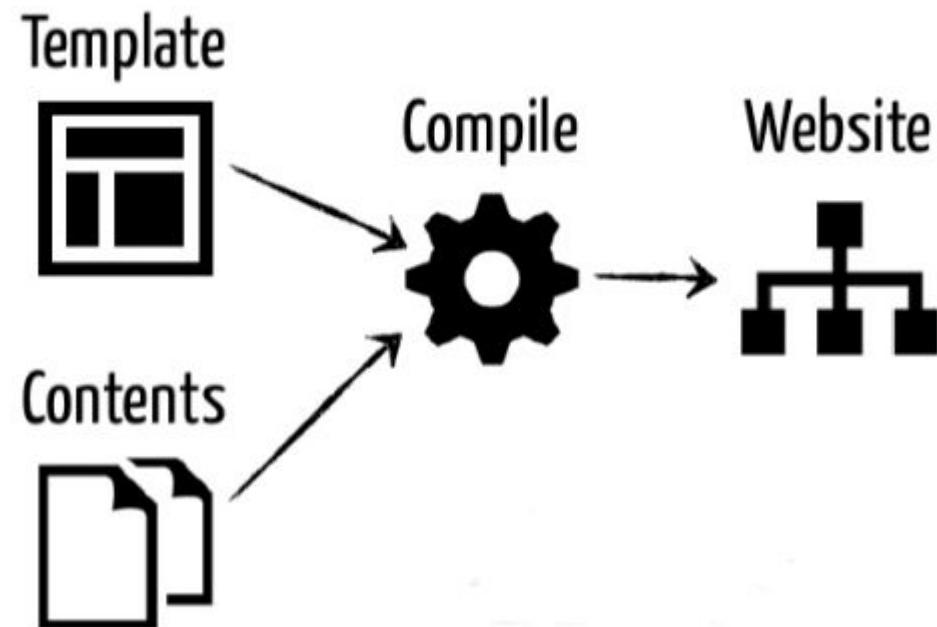
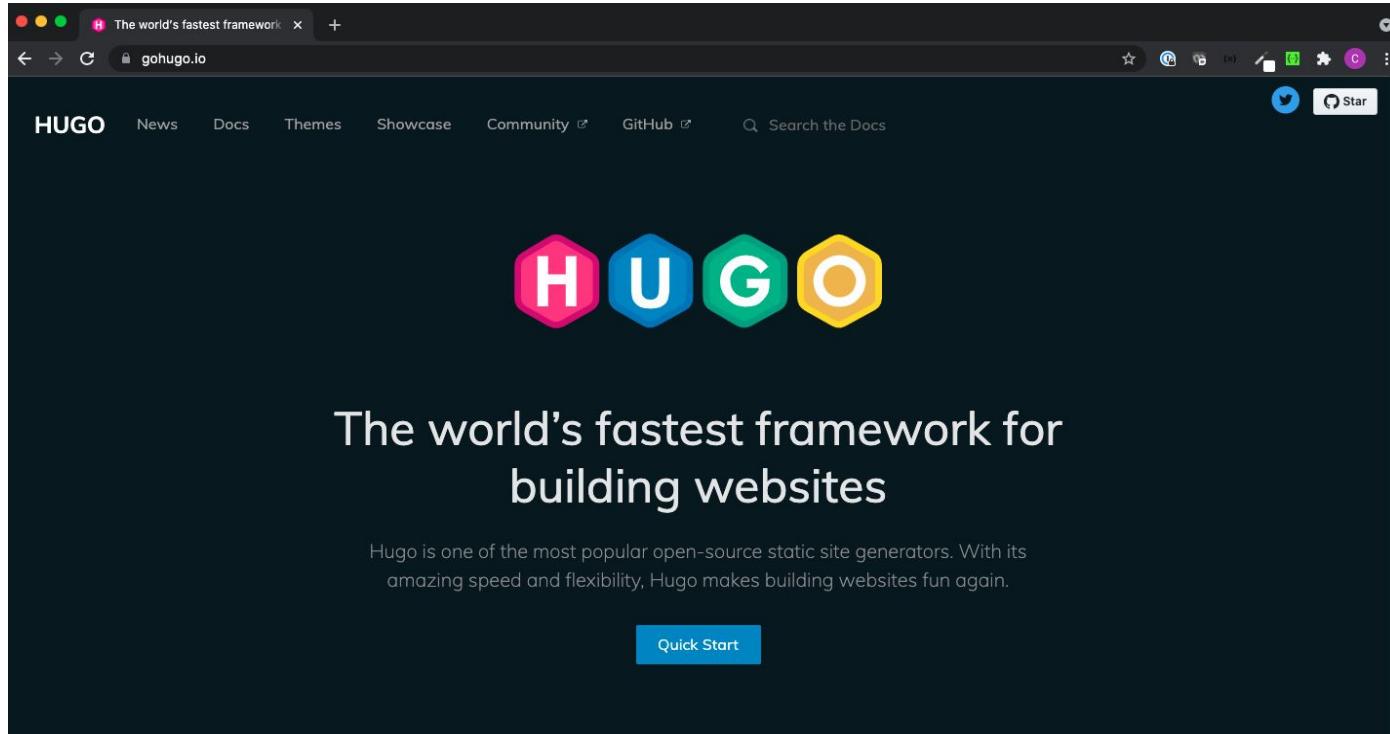


Image Source (<https://www.slideshare.net/mackato/blogging-on-jekyll>)

Hugo



<https://gohugo.io/>

- Extends Golang built-in templating for organizing and building website.
- All content contained in markdown files.
- What is “it?” A binary - can run in a container.

```
.  
├── archetypes  
├── config.toml  
├── content  
├── data  
├── layouts  
├── static  
└── themes
```

<https://gohugo.io/getting-started/directory-structure/>

- .
- └ archetypes Writing templates
- └ config.toml Configuration
- └ content Content (markdown)
- └ data ...
- └ layouts The HTML / shortcode portion of the site
- └ static Files (images)
- └ themes Custom / create your own

<https://gohugo.io/getting-started/directory-structure/>

 k8s-ci-robot	Merge pull request #30032 from mayocream/update_concept_...	... d2dc3b1 2 hours ago	⌚ 26,093 commits
 .github	Fix approval rules for GitHub workflows	8 days ago	
 api-ref-assets	v1.22 beta.0	2 months ago	
 api-ref-generator @ 55bce68	api-ref-generator: update to include Event changes	2 months ago	
 archetypes	Proposed hugo archetype to fix issue #27843	4 months ago	
 assets	Set custom color for third-party-content alert	11 days ago	
 content	Merge pull request #30032 from mayocream/update_concept_pods	2 hours ago	
 data	releng: update patch release dates for 1.19	7 days ago	
 deprecated	Revise the Kubernetes website to use Docsy (#20874)	16 months ago	
 i18n	Add explanatory note about localized string OWNERS	6 months ago	
 layouts	Revise third-party content warning	11 days ago	
 scripts	Update script to check api-reference links	last month	
 static	Redirect overview to new content	8 days ago	
 themes	updating theme submodule	2 months ago	
 update-imported-docs	update reference.yml for 1.20 reference docs	10 months ago	

main ▾ [website / config.toml](#) 

 **jimangel** performance tuning and hugo version upgrade ✓

225 contributors  +189

486 lines (406 sloc) | 13.3 KB

```
1 baseURL = "https://kubernetes.io"
2 title = "Kubernetes"
3
4 # Hugo allows theme composition (and inheritance). The precedence is from left to right.
5 theme = ["docsy"]
6
7 # Language settings
8 contentDir = "content/en"
9 defaultContentLanguage = "en"
10 defaultContentLanguageInSubdir = false
11 enableRobotsTXT = true
12 disableBrowserError = true
13
14 disableKinds = ["taxonomy", "taxonomyTerm"]
```

Supported version skew

kube-apiserver

In [highly-available \(HA\) clusters](#), the newest and oldest `kube-apiserver` instances must be within one minor version.

Example:

- newest `kube-apiserver` is at **1.22**
- other `kube-apiserver` instances are supported at **1.22** and **1.21**

kubelet

`kubelet` must not be newer than `kube-apiserver`, and may be up to two minor versions older.

Example:

- `kube-apiserver` is at **1.22**
- `kubelet` is supported at **1.22**, **1.21**, and **1.20**

Note: If version skew exists between `kube-apiserver` instances in an HA cluster, this narrows the allowed `kubelet` versions.

Example:

- `kube-apiserver` instances are at **1.22** and **1.21**
- `kubelet` is supported at **1.21**, and **1.20** (**1.22** is not supported because that would be newer than the `kube-apiserver` instance at version **1.21**)

Hugo Shortcodes

Example:

```
* `kube-apiserver` instances are at **{{< skew latestVersion >}}** and **{{< skew prevMinorVersion >}}**  
* `kubelet` is supported at **{{< skew prevMinorVersion >}}**, and **{{< skew oldestMinorVersion >}}** (**{{< skew latestVersion >}}**  
that would be newer than the `kube-apiserver` instance at version **{{< skew prevMinorVersion >}}**)
```

kube-controller-manager, kube-scheduler, and cloud-controller-manager

Hugo Shortcodes

main ▾ website / layouts / shortcodes / skew.html

 silenceshell kubeadm-upgrade should upgrade to current branch version other than t... ... ✓

3 contributors 

89 lines (74 sloc) | 3.18 KB

```
1  <!-- capture version from first argument in "skew" -->
2  {{- $version := .Get 0 -}}
3
4  <!-- strip "v" from latest verison -->
5  {{- $latestVersion := site.Params.latest -}}
6  {{- $latestVersion := (replace $latestVersion "v" "") -}}
7
8  <!-- splits a string x.Xy into substrings separated by a "." delimiter -->
9  {{- $versionArray := split $latestVersion "." -}}
10
11 <!-- capture minorVersion ("Xy") in a variable -->
12 {{- $minorVersion := int (index $versionArray 1) -}}
13
```

Hugo Shortcodes

main ▾ website / layouts / shortcodes / skew.html

 silenceshell kubeadm-upgrade should upgrade to current branch version other than t... ... ✓

3 contributors 

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13
```

Hugo Shortcodes

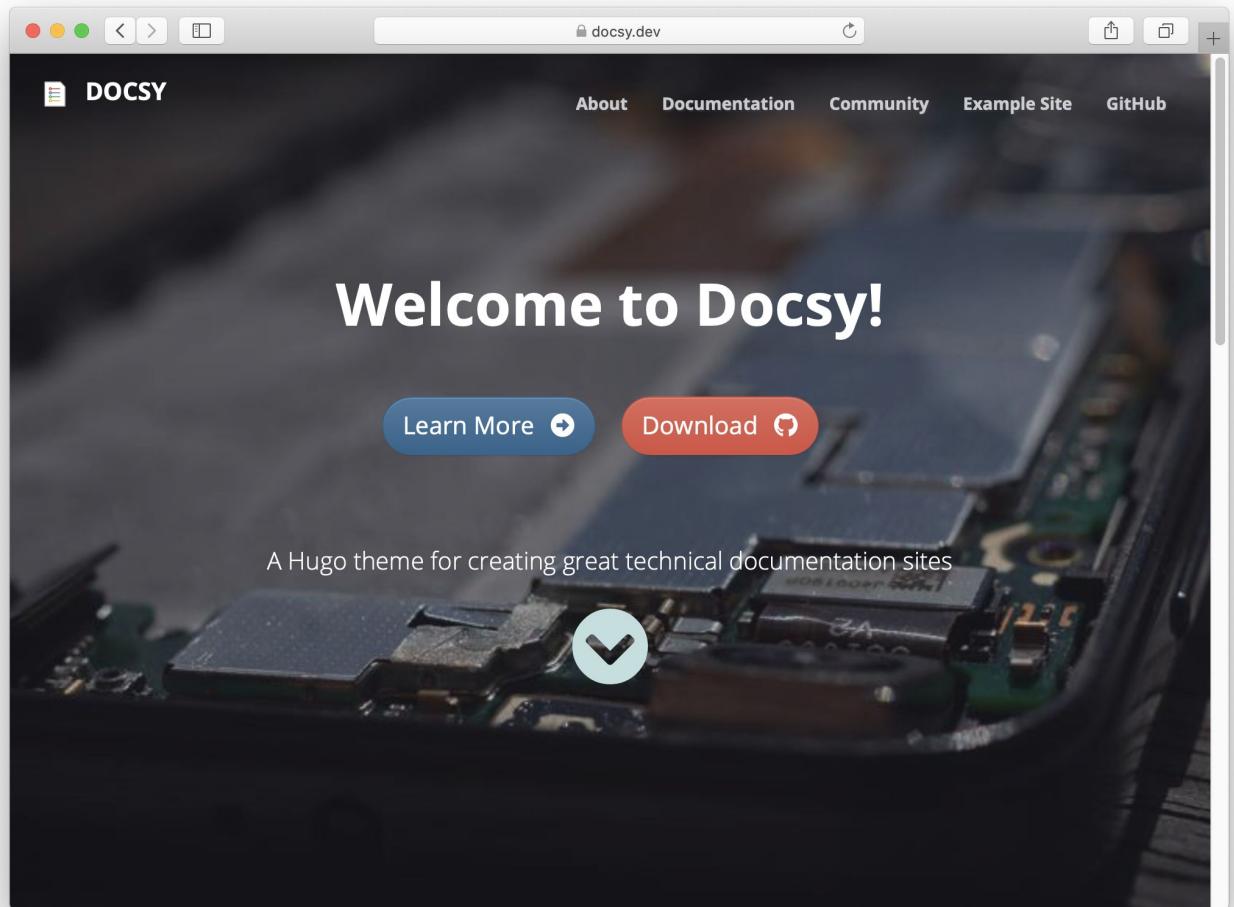
main ▾ website / config.toml

Go to file

...

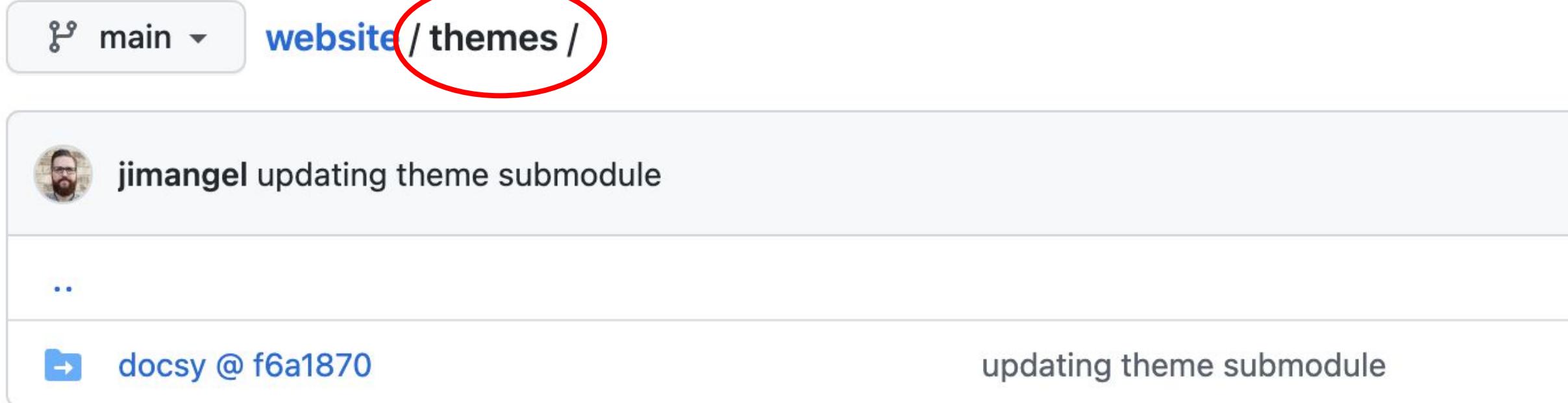
```
122
123 [params]
124 copyright_k8s = "The Kubernetes Authors"
125 copyright_linux = "Copyright © 2020 The Linux Foundation ®."
126 # privacy_policy = "https://policies.google.com/privacy"
127
128 # First one is picked as the Twitter card image if not set on page.
129 # images = ["images/project-illustration.png"]
130
131 # Menu title if your navbar has a versions selector to access old versions of your site.
132 # This menu appears only if you have at least one [params.versions] set.
133 version_menu = "Versions"
134
135 time_format_blog = "Monday, January 02, 2006"
136 time_format_default = "January 02, 2006 at 3:04 PM PST"
137
138 description = "Production-Grade Container Orchestration"
139 showedit = true
140
141 latest = "v1.22"
142
```

Hugo Theme(s)



<https://www.docsy.dev/>

Hugo theme for templating



The screenshot shows a terminal window with the following command:

```
	main ▾ website / themes /
```

A red oval highlights the path `/ themes /`. Below the terminal, a GitHub commit history is visible:

- jimangel updating theme submodule
- ..
- docsy @ f6a1870 updating theme submodule

Key Points

- Everything is code
- Hugo generates HTML files from markdown sources
 - shortcodes are the secret sauce
- config.toml is Hugo's boss

Create a new site

From zero to hero, three easy steps to get your site on Netlify.

1. Connect to Git provider

2. Pick a repository

3. Site settings, and deploy!

Continuous Deployment: GitHub App

Choose the repository you want to link to your site on Netlify. When you push to Git, we run your build tool of choice on our servers and deploy the result.



jimangel ▾

Search repos

<https://netlify.com/>

- Hosts the kubernetes.io website
- You can create your own EXACT COPY for free
- Configured via a netlify.toml file in the root repo

 go.sum	Update go.mod for 1.22	2 months ago
 labels.yaml	Issue #124: Automatically create labels.	5 years ago
 linkcheck-config.toml	Add a link checker	17 months ago
 netlify.toml	performance tuning and hugo version upgrade	2 months ago
 package-lock.json	add package-lock file	16 months ago
 package.json	updating packaging	16 months ago
 postcss.config.js	updating packaging	16 months ago

```
9 [build.environment]
10 NODE_VERSION = "10.20.0"
11 HUGO_VERSION = "0.87.0"
12 RUBY_VERSION = "3.0.1"
13
14 [context.production.environment]
15 HUGO_BASEURL = "https://kubernetes.io/"
16 HUGO_ENV = "production"
17 HUGO_ENABLEGITINFO = "true"
```

Key Points

- Netlify builds the site from a netlify.yaml
 - The netlify.yaml calls `hugo --minify`
 - Hugo uses `config.toml` for instructions how to generate the site
 - Netlify, using hugo's new build, publishes & hosts the site
- The site is rebuilt many times a day
- git/hugo/docsy + netlify = super powers
- Supports multiple releases (branches / config.toml)



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How To Get Involved

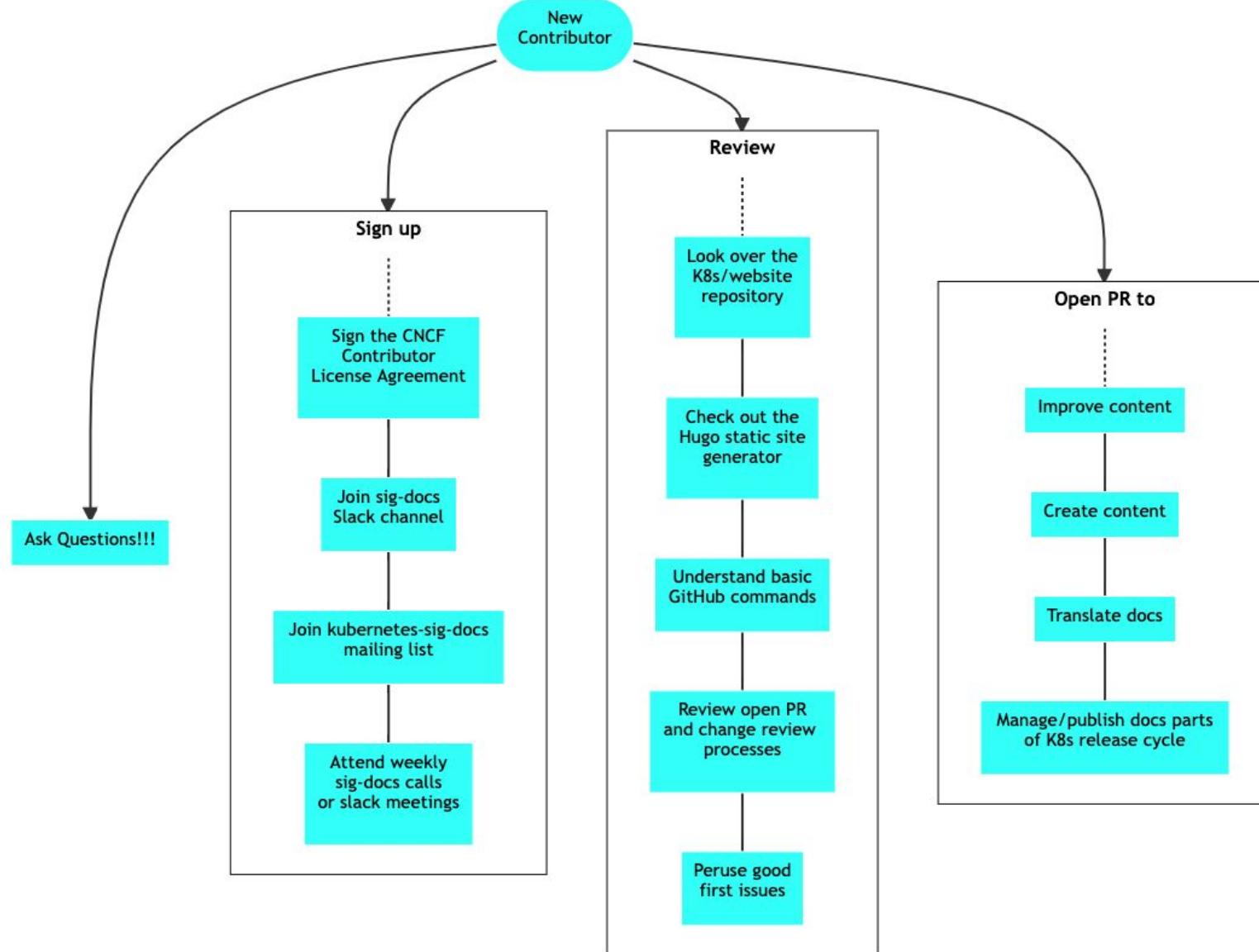
Why contribute to SIG Docs?

- Grow your knowledge of Kubernetes and cloud native technologies.
- Work with advanced docs tools and automation.
- Collaborate with really smart people.
- Import your knowledge into your “day job” or studies.
- Share your work with the global cloud native community.

“Contributing is not only about code. It is about helping a community”.

- Nikhita Raghunath

Where do I go from here?



Contributor License Agreement

Defines the legal status of the contributed code in two different types of Contributor License Agreements (CLAs):



Individual contributors



Corporations

Kubernetes can only accept original source code from CLA signatories

<https://git.k8s.io/community/CLA.md>



Contributor License Agreement

Some checks were not successful

1 failing, 1 pending, 1 neutral, and 4 successful checks

cla/linuxfoundation — SpireCat needs CLA

tide Pending — Not mergeable. Needs cncf-cla: yes label.

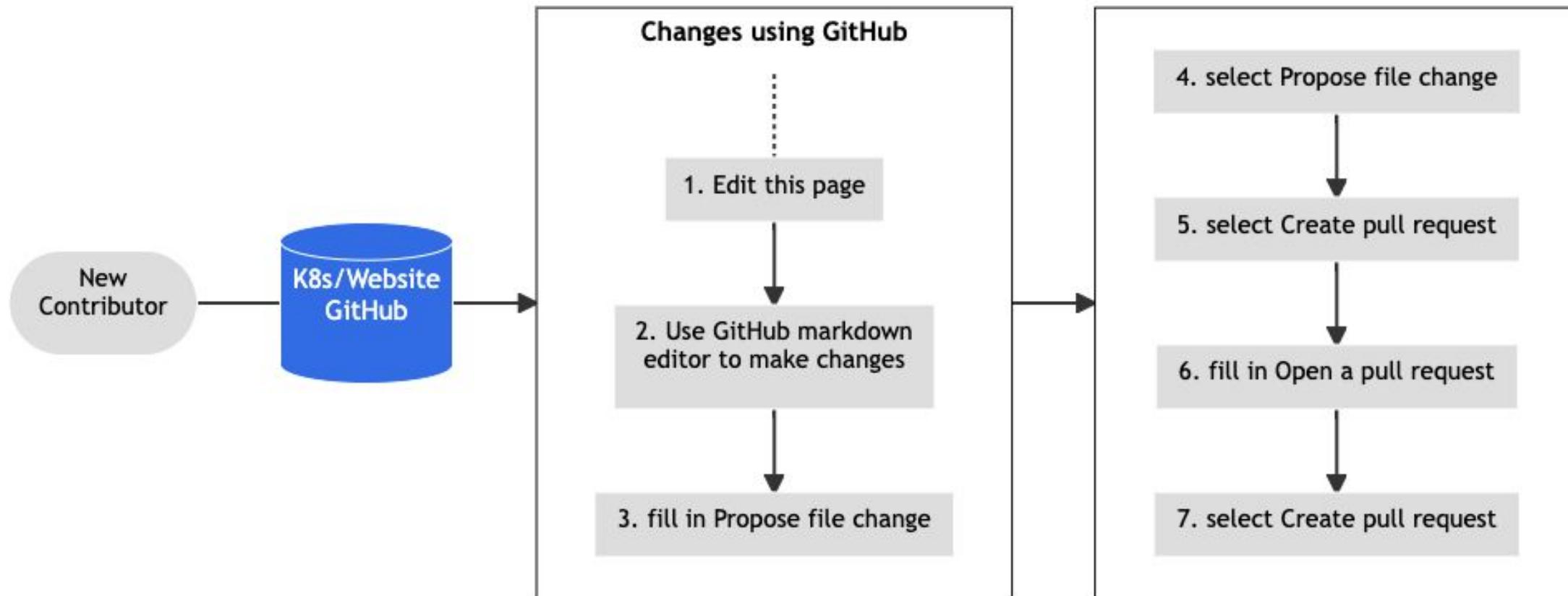
Required Details

Details

https://identity.linuxfoundation.org/projects/cncf

Opening a PR using GitHub

- Simplest method to make changes and open a PR.
- Ideal for small changes.



[Instruction details for opening PR using GitHub](#)

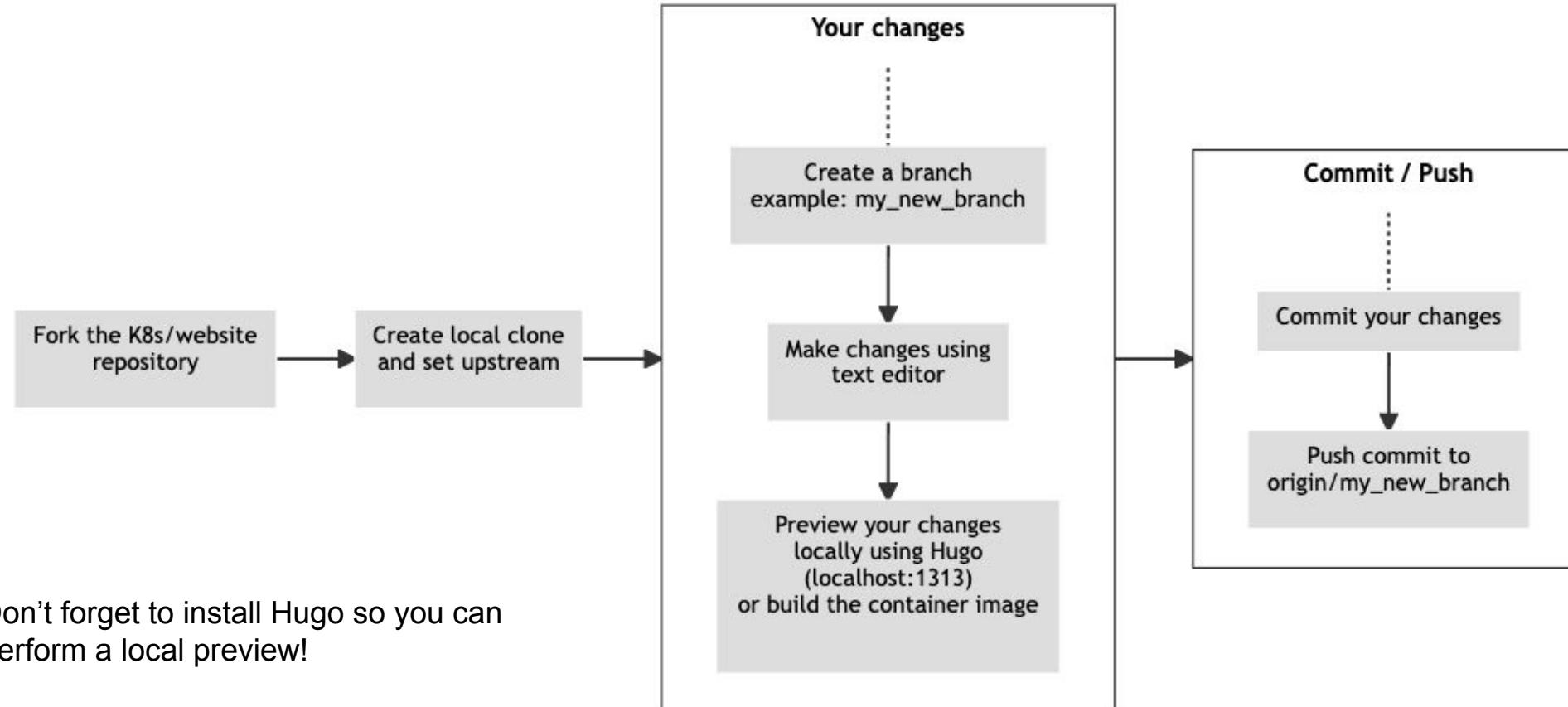
First time?

 **update Git submodules**

```
git submodule update --init --recursive \
--depth 1
```

Working from a local fork

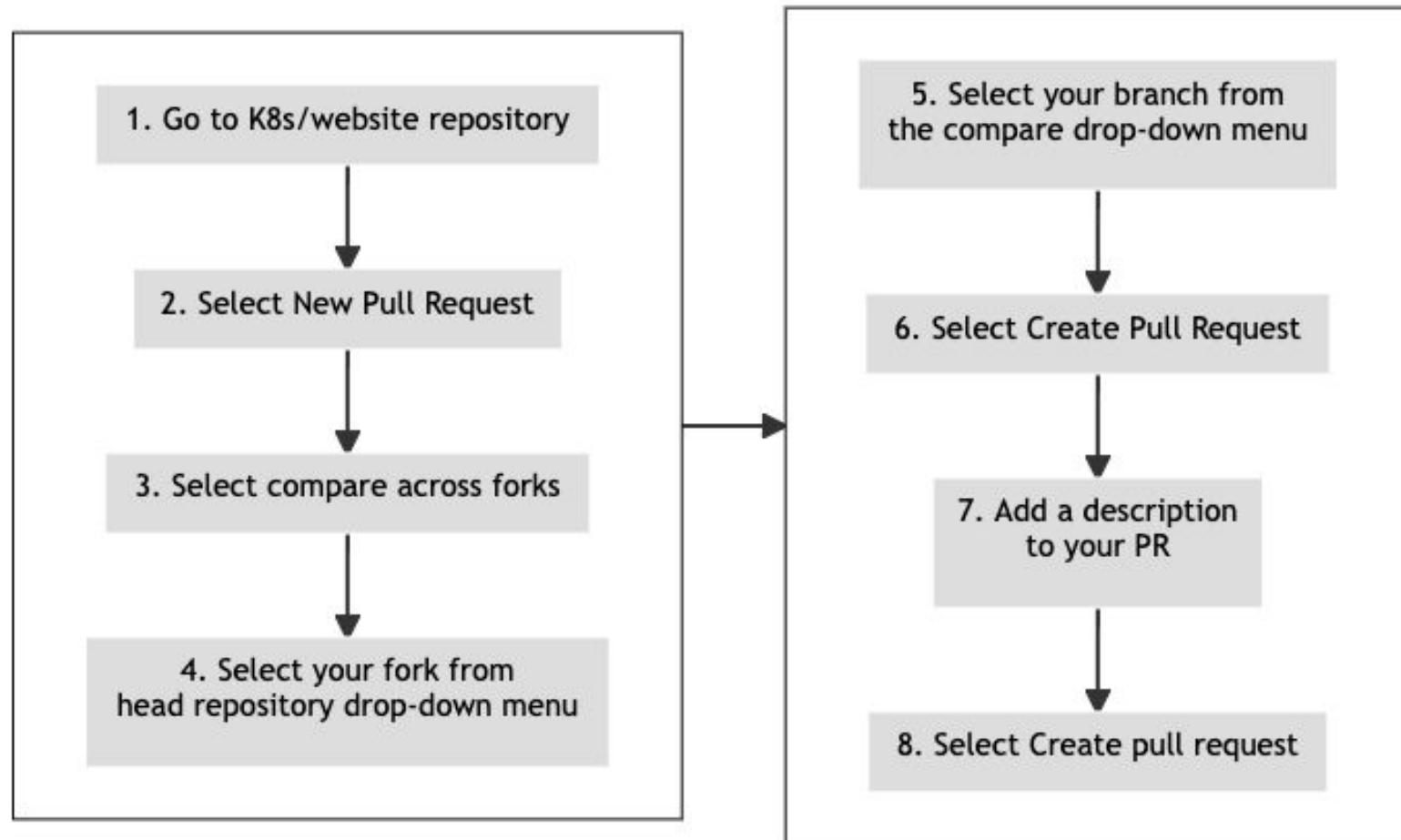
- Make changes from a local fork.
- Suitable for large changes.



[Check out the two methods for local previewing of your changes.](#)

[Instruction details for working from a local fork](#)

Opening a PR from your fork



[Instruction details for opening PR from your fork](#)

Code review automation

Prow Kubernetes code review bot

Prow merges PRs when:

/lgtm
/approve
/hold

[More on prow commands](#)

The screenshot shows the GitHub repository for the Kubernetes website. The repository has 587 issues and 173 pull requests. The 'Code' tab is selected, showing a list of 39 branches and 44 tags. The main list displays numerous merged pull requests from various contributors, such as 'k8s-ci-robot' and 'kbhawkey'. The commits are dated from 2 hours ago to last month. The repository page also includes sections for About, Releases (with one latest release), Packages (no packages published), Contributors (3,020), and Environments (1).

Automatic preview

- After you submit a PR, Netlify does a complete build of the whole site so you can preview the impact of the changes you're proposing.
- Look for the Netlify deploy preview comment.

Click on provided link to see preview.



- *Extra credit:* Edit the PR description, adding a link to the specific page(s) that you changed
 - Netlify can't do this automatically
 - Reviewers will thank you!

The screenshot shows a GitHub pull request build status card for a repository. At the top, it says "Some checks haven't completed yet" with a count of 1 pending, 1 neutral, and 5 successful checks. Below this, there is a list of checks with their status, names, and details:

- Pages changed: Completed in 1m — 4200 new files uploaded (Details)
- Header rules: Successful in 15m — 2 header rules processed (Details)
- Mixed content: Successful in 15m — No mixed content detected (Details)
- Redirect rules: Successful in 15m — 503 redirect rules processed (Details)
- cla/linuxfoundation: cla/linuxfoundation — chrismetz09 authorized (Details)
- deploy/netlify: deploy/netlify — Deploy Preview ready! (Details)

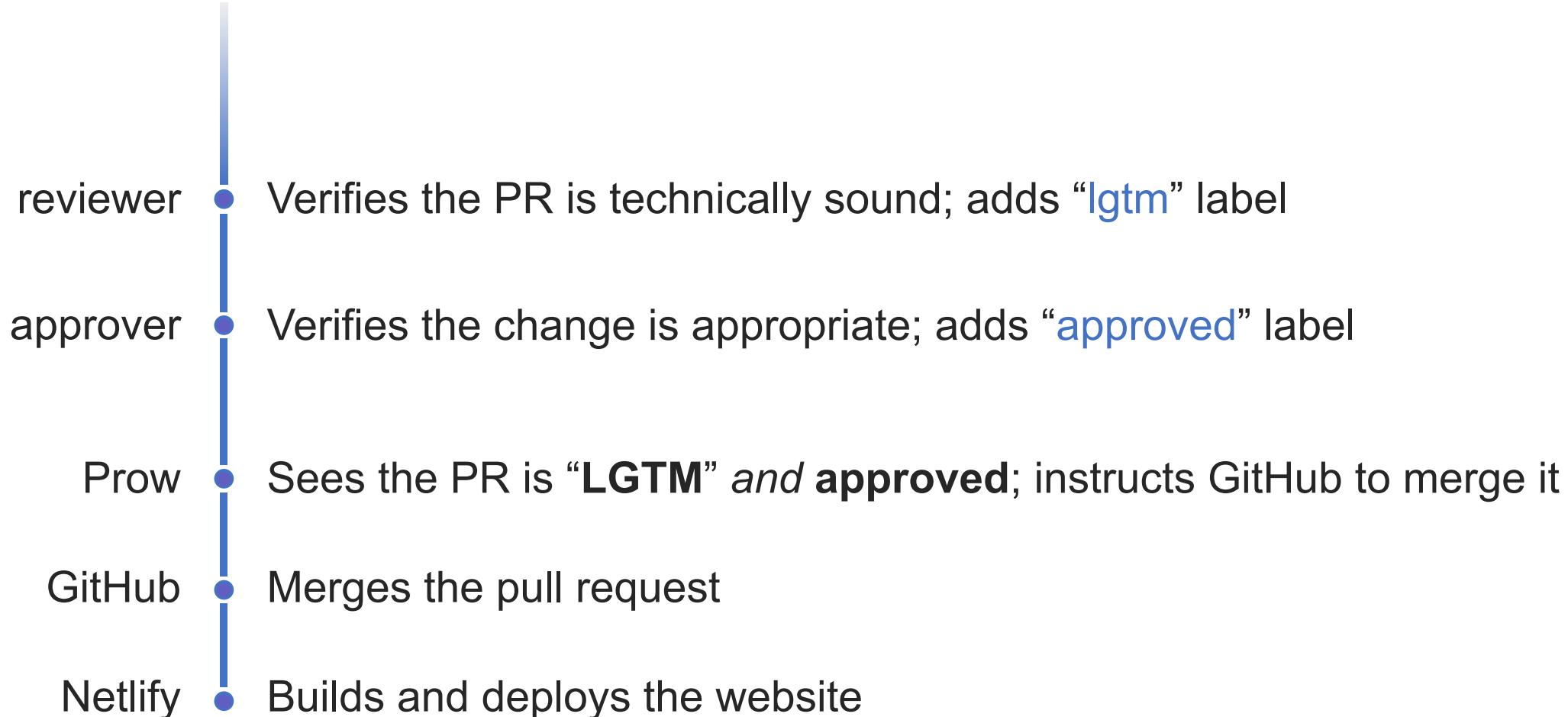
At the bottom, it says "This branch has no conflicts with the base branch" and adds "Only those with write access to this repository can merge pull requests."

Continuous deployment before approval

The Kubernetes website is built and deployed using Netlify

- 
- contributor • Pushes a branch to their fork of kubernetes/website and opens a *pull request*
 - GitHub • Notifies Netlify systems about the pull request
 - Netlify • Builds and publishes a preview version of that website
 - Prow • Ensures that PRs have *contributor licence agreements* tracks review and approval status

Continuous deployment after approval



Local preview

- Run Hugo in a container (**recommended**)

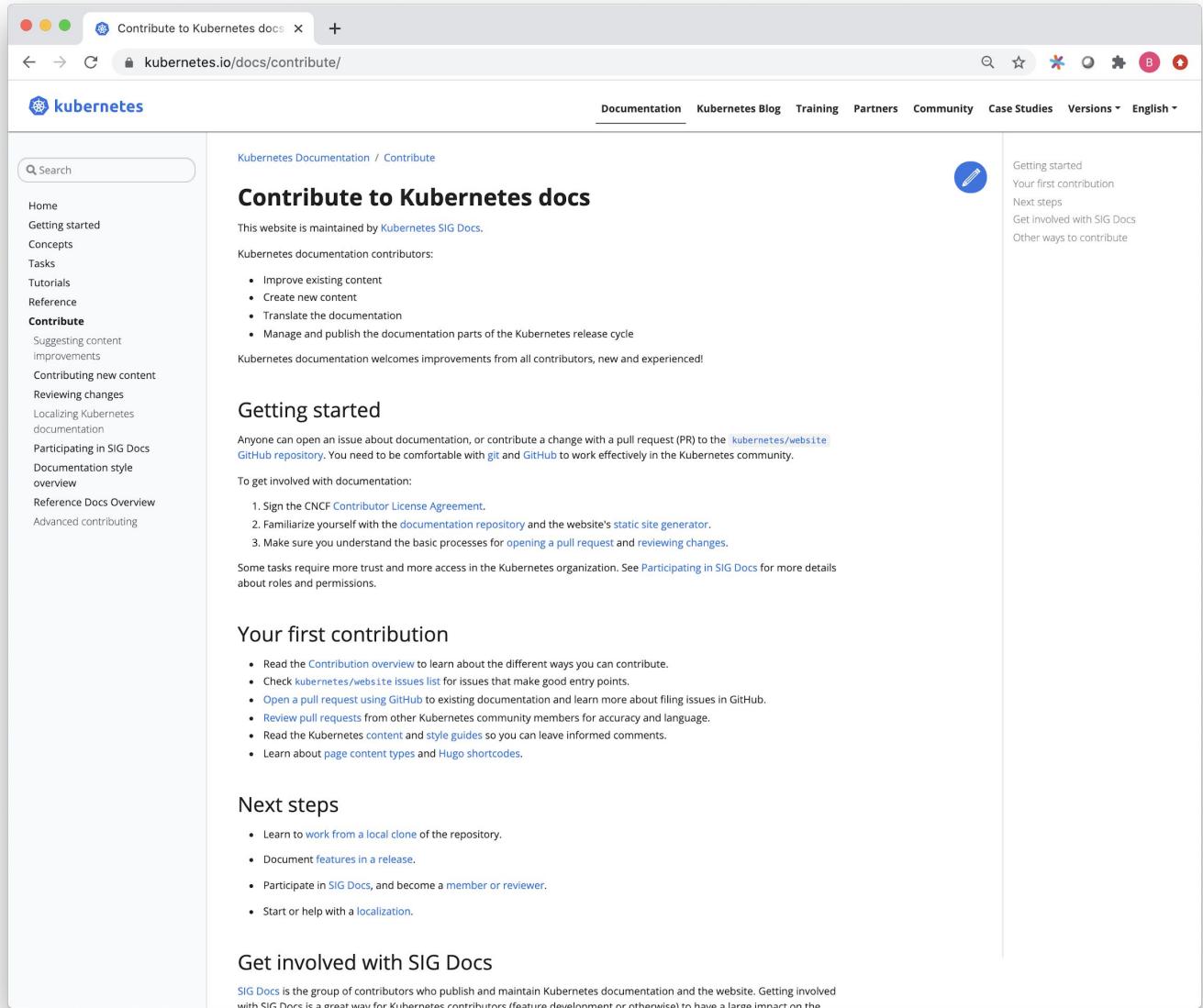
```
make container-image && make container-serve
```

- *Can also run Hugo without a container*

...then, visit <http://localhost:1313/> in a browser.

Contribution

- *Everyone is welcome to contribute to documentation!*
- Contribute to English, another existing language, or even add support for a new language.
- Check out our docs on how to contribute.



The screenshot shows the 'Contribute to Kubernetes docs' page at kubernetes.io/docs/contribute/. The page has a sidebar on the left with links like Home, Getting started, Concepts, Tasks, Tutorials, Reference, Contribute (which is highlighted), Suggesting content improvements, Contributing new content, Reviewing changes, Localizing Kubernetes documentation, Participating in SIG Docs, Documentation style overview, Reference Docs Overview, and Advanced contributing. The main content area has a header 'Kubernetes Documentation / Contribute'. It includes sections for 'Contribute to Kubernetes docs', 'Getting started', 'Your first contribution', 'Next steps', and 'Get involved with SIG Docs'. The right sidebar contains links for 'Getting started', 'Your first contribution', 'Next steps', 'Get involved with SIG Docs', and 'Other ways to contribute'.

Contribute to Kubernetes docs

This website is maintained by [Kubernetes SIG Docs](#).

Kubernetes documentation contributors:

- Improve existing content
- Create new content
- Translate the documentation
- Manage and publish the documentation parts of the Kubernetes release cycle

Kubernetes documentation welcomes improvements from all contributors, new and experienced!

Getting started

Anyone can open an issue about documentation, or contribute a change with a pull request (PR) to the [kubernetes/website GitHub repository](#). You need to be comfortable with [git](#) and [GitHub](#) to work effectively in the Kubernetes community.

To get involved with documentation:

1. Sign the CNCF [Contributor License Agreement](#).
2. Familiarize yourself with the [documentation repository](#) and the website's [static site generator](#).
3. Make sure you understand the basic processes for [opening a pull request](#) and [reviewing changes](#).

Some tasks require more trust and more access in the Kubernetes organization. See [Participating in SIG Docs](#) for more details about roles and permissions.

Your first contribution

- Read the [Contribution overview](#) to learn about the different ways you can contribute.
- Check [kubernetes/website issues](#) list for issues that make good entry points.
- Open a pull request using [GitHub](#) to existing documentation and learn more about filing issues in GitHub.
- Review pull requests from other Kubernetes community members for accuracy and language.
- Read the Kubernetes [content](#) and [style guides](#) so you can leave informed comments.
- Learn about [page content types](#) and [Hugo shortcodes](#).

Next steps

- Learn to [work from a local clone](#) of the repository.
- Document [features in a release](#).
- Participate in [SIG Docs](#), and become a [member or reviewer](#).
- Start or help with a [localization](#).

Get involved with SIG Docs

[SIG Docs](#) is the group of contributors who publish and maintain Kubernetes documentation and the website. Getting involved with SIG Docs is a great way for Kubernetes contributors (feature development or otherwise) to have a large impact on the

Documentation style guide

<https://k8s.io/docs/contribute/style/>

Contribute to the style guide:

- propose style changes
- help explain existing guidelines

Excerpt

Code snippet formatting

Don't include the command prompt

Do **Don't**

```
kubectl get pods    $ kubectl get pods
```

Separate commands from output

Verify that the pod is running on your chosen node:

```
kubectl get pods --output=wide
```

The output is similar to this:

NAME	READY	STATUS	RESTARTS	AGE	IP	NODE
nginx	1/1	Running	0	13s	10.200.0.4	worker0

Writing great docs

All kinds of writing contributions are valuable!

- Edits, typo corrections.
- New content.
- Editing/reviewing PRs for language.

The screenshot shows a GitHub pull request diff for a file named 'content/en/docs/concepts/workloads/controllers/deployment.md'. The diff highlights changes made between line 13 and line 19. The left side shows the original text, and the right side shows the updated text with a green highlight. The changes involve adding a new sentence about 'Deployment' providing declarative updates for 'Pods' and 'ReplicaSets'.

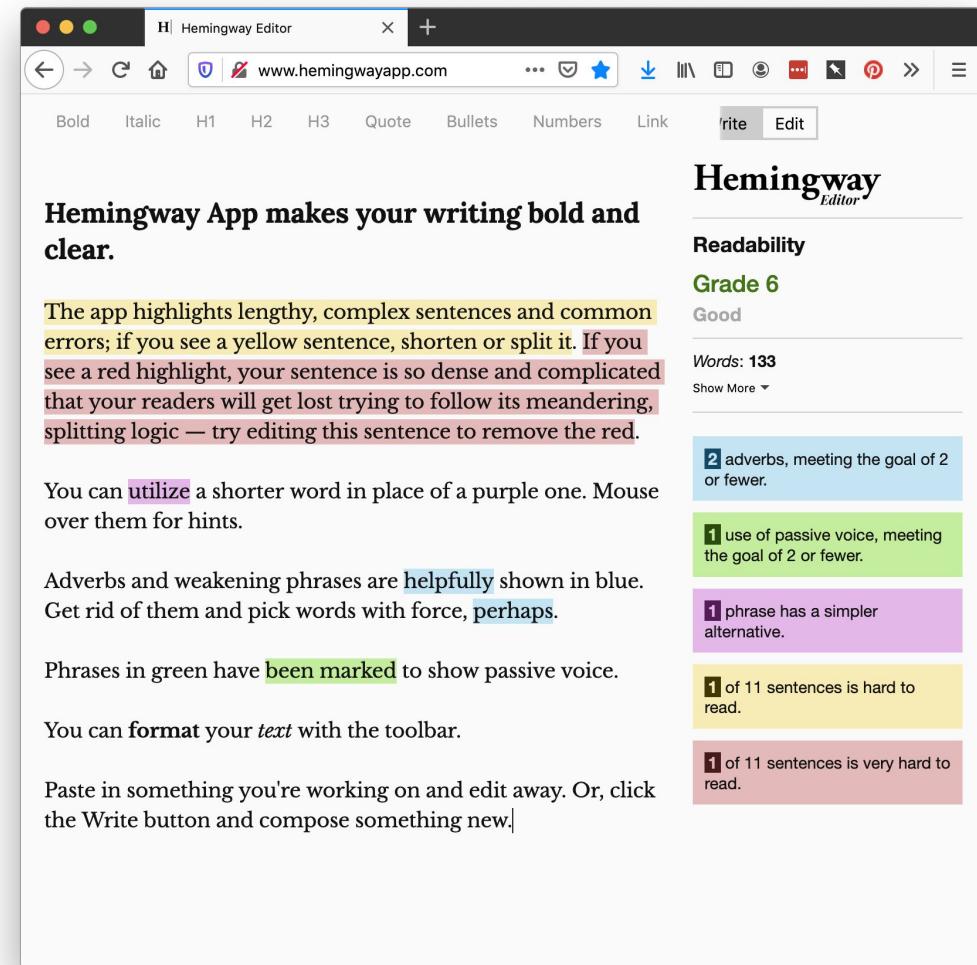
Line	Original Text	Updated Text
13	<!-- overview -->	<!-- overview -->
14	- A <i>Deployment</i> provides declarative updates for {{< glossary_tooltip text="Pods" term_id="pod" >}}	+ A <i>Deployment</i> provides declarative updates for {{< glossary_tooltip text="Pods" term_id="pod" >}} and
15	{{< glossary_tooltip term_id="replica-set" text="ReplicaSets" >}}.	{{< glossary_tooltip term_id="replica-set" text="ReplicaSets" >}}.
16	17	17
17	You describe a <i>desired state</i> in a Deployment, and the Deployment {{< glossary_tooltip term_id="controller" >}} changes the actual state to the desired state at a controlled rate. You can define Deployments to create new ReplicaSets, or to remove existing Deployments and adopt all their resources with new Deployments.	You describe a <i>desired state</i> in a Deployment, and the Deployment {{< glossary_tooltip term_id="controller" >}} changes the actual state to the desired state at a controlled rate. You can define Deployments to create new ReplicaSets, or to remove existing Deployments and adopt all their resources with new Deployments.
18		18
19		19

Writing great docs

- Break it down into smaller sections
- Understand content types
 - *Concepts*: explain ideas at a high level
 - *Tasks*: Step-by-step instructions explaining one thing
 - *Reference*: lists of options, flags, and so on that help you complete tasks or understand concepts
- Write in bullet points first, then full sentences
- “Always be deleting”
 - Zach Corleissen, Lead Technical Writer @ CNCF

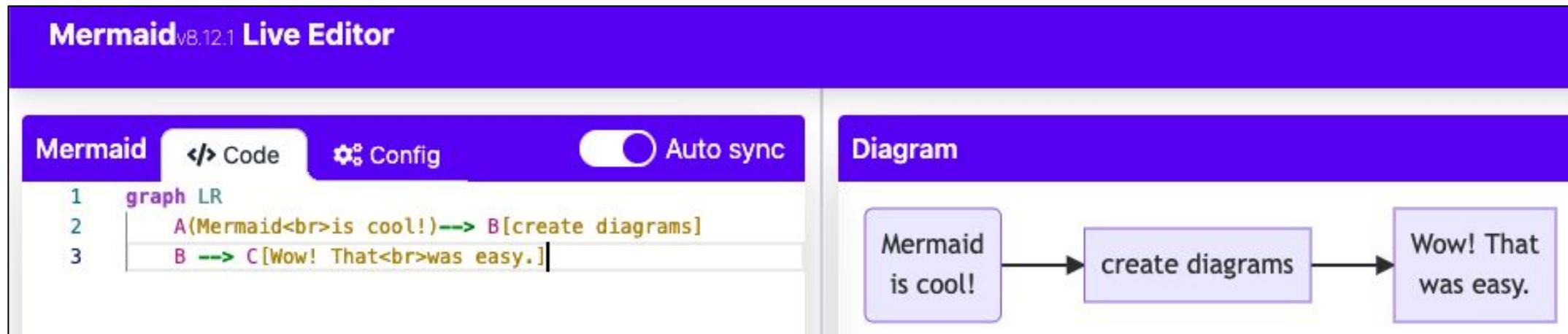
Writing great docs

- Write in the present tense (“I am”, not “I will” or “I was”)
- Keep sentences short
- Use plain language
 - www.hemingwayapp.com is great!
- Ask for help in #sig-docs!



Great docs can include diagrams

- Diagrams improve documentation clarity and comprehension.
- Use [Mermaid](#) to generate diagrams.
 - Defines simple, inline code syntax you add directly to the markdown file.
 - Includes on-line live editor to create/edit diagrams. You can also use per-diagram REST APIs to *share and collaborate* on diagrams with colleagues.



[Live editor link to this figure](#)

[More information on K8s and Mermaid](#)



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Wrangling PRs & Localization

Pull request wrangler

Kubernetes documentation approvers take weekly shifts doing triage on PRs, as the “**PR wrangler**”.

- Timely feedback
- Signposting for technical review (*if needed*)

PR wranglers can also triage incoming issues.

The screenshot shows a web browser displaying the Kubernetes documentation page for "PR wranglers". The URL is kubernetes.io/docs/contribute/participate/pr-wranglers/. The page is part of the "Participating in SIG Docs" section. The left sidebar includes links for Home, Getting started, Concepts, Tasks, Tutorials, Reference, Contribute, Suggesting content improvements, Contributing new content, Reviewing changes, Localizing Kubernetes documentation, Participating in SIG Docs, Roles and responsibilities, PR wranglers, Documentation style overview, Reference Docs Overview, and Advanced contributing. The main content area starts with a heading "PR wranglers" and a sub-section "Duties". It lists several bullet points detailing the responsibilities of a PR wrangler, such as triaging issues, reviewing pull requests, and ensuring contributors sign the CLA. Below this is a section titled "Helpful GitHub queries for wranglers" with a list of GitHub queries like "No CLA, not eligible to merge", "Needs LGTM", and "Has LGTM, needs docs approval". On the right side of the page, there are "Edit this page" and "Create an issue" buttons, along with a "Duties" sidebar containing links to GitHub queries, Prow commands, and closing pull requests.

Localization



Localization

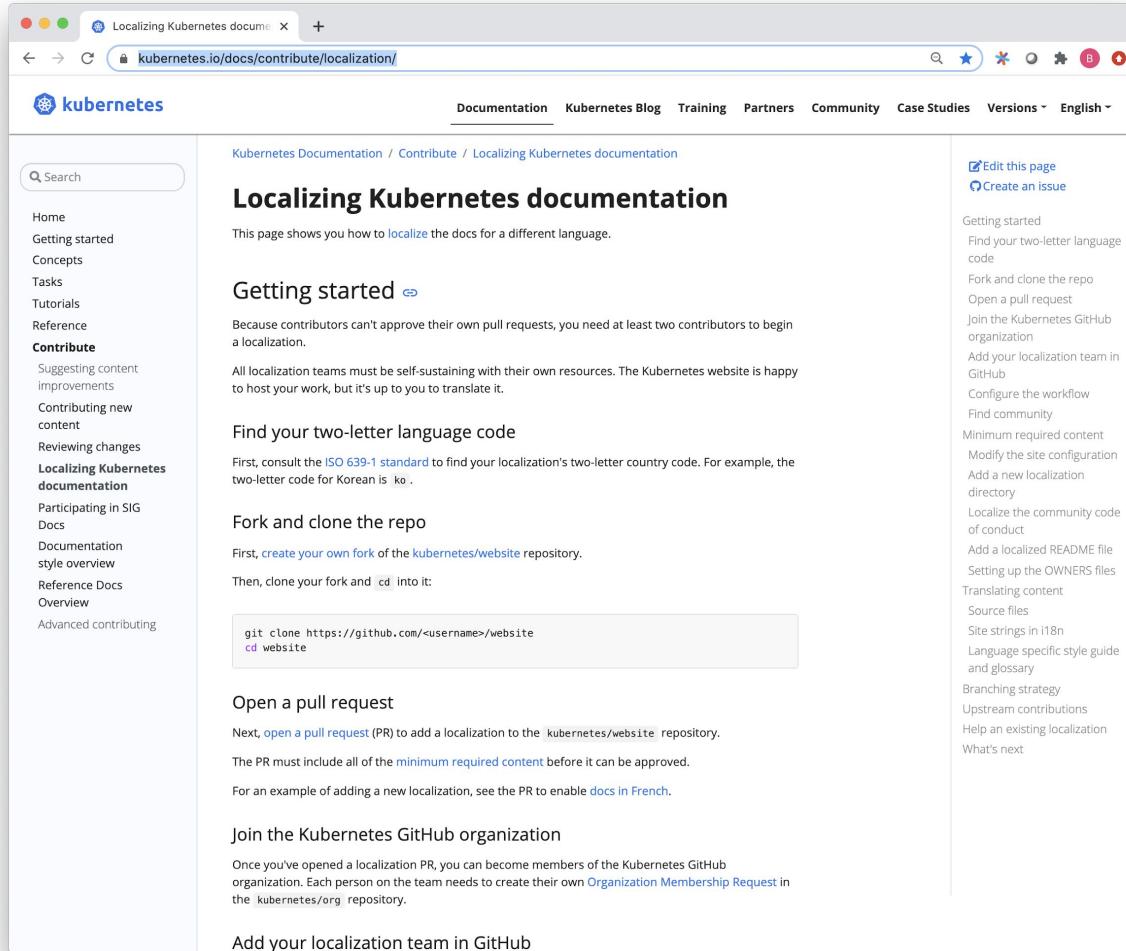
Available localizations include:

- English
- Chinese
- French
- German
- Indonesian
- Japanese
- Korean
- Polish
- Portuguese
- Russian
- Spanish
- Ukrainian
- Vietnamese

The screenshot shows a web browser displaying the Kubernetes documentation at kubernetes.io/zh/docs/concepts/overview/what-is-kubernetes/. The page is titled "Kubernetes 是什么?" (What is Kubernetes?). It features a sidebar with navigation links such as "主页" (Home), "入门" (Getting Started), "概念" (Concepts), "概述" (Overview), "Kubernetes 是什么?", "Kubernetes 组件", "Kubernetes API", "使用 Kubernetes 对象", "任务", "教程", "参考", and "贡献". The main content area discusses the history and purpose of Kubernetes, mentioning its evolution from traditional deployment to virtualized deployment and finally to container deployment. A diagram illustrates this progression. The page also includes a search bar, a navigation bar with links to "文档" (Documentation), "Kubernetes 博客", "培训", "合作伙伴", "社区", "案例分析", "版本列表", and "中文 Chinese", along with social sharing icons.

Localization

- We also provide documentation on how to add new language support
 - See [kubernetes/website#12548](https://kubernetes/websit#12548)
- Guide to localizing content:
<https://k8s.io/docs/contribute/localization/>
- We have a SIG Docs Localization Subgroup
 - Meets monthly on 1st Monday at 15:00 UTC
 - Creates common tools and identifies best practices
 - <https://github.com/kubernetes/community/tree/master/sig-docs>
 - Slack Channel ([#sig-docs-localizations](#))
 - Mailing List:
kubernetes-sig-docs-localization@googlegroups.com
 - Subgroup Chair: Brad Topol (@bradtopol)



The screenshot shows a web browser displaying the Kubernetes Documentation website at <https://kubernetes.io/docs/contribute/localization/>. The page title is "Localizing Kubernetes documentation". The left sidebar contains a navigation menu with links such as Home, Getting started, Concepts, Tasks, Tutorials, Reference, Contribute, Localizing Kubernetes documentation, Participating in SIG Docs, Documentation style overview, Reference Docs Overview, and Advanced contributing. The main content area starts with a section titled "Getting started" which explains the need for at least two contributors and provides instructions for finding a two-letter language code. It includes a code block for cloning the repository:

```
git clone https://github.com/<username>/website  
cd website
```

. Below this, there are sections for "Fork and clone the repo", "Open a pull request", "Join the Kubernetes GitHub organization", and "Add your localization team in GitHub". A sidebar on the right lists various documentation links, including "Edit this page", "Create an issue", and links for "Getting started", "Find your two-letter language code", "Fork and clone the repo", "Configure the workflow", and many others.

One language per PR
(exceptions can apply)

Blog

Guidelines:

- Only blog on software in Kubernetes
- Should not be vendor pitches
- Not published on specific dates
- Relevant to Kubernetes users
- Original content
- Aim to be future proof

<https://k8s.io/blog>

Anyone can write a blog post and submit it for review!

The screenshot shows the Kubernetes Blog homepage. At the top, there's a banner for KubeCon + CloudNativeCon North America 2021, which took place in Los Angeles, California, and was virtual. Below the banner, the navigation bar includes links for Documentation, Kubernetes Blog (which is currently active), Training, Partners, Community, Case Studies, Versions, and English. On the right side of the header, there are icons for KubeCon and CloudNativeCon North America 2021. The main content area has a dark header "Kubernetes Blog". To the left, there's a sidebar with a search bar and a list of years from 2015 to 2021. The main content area displays three blog posts under the heading "Posts in 2021":

- "Introducing ClusterClass and Managed Topologies in Cluster API" (published Friday, October 08, 2021) with a link to "Read more".
- "A Closer Look at NSA/CISA Kubernetes Hardening Guidance" (published Tuesday, October 05, 2021) with a link to "Read more".
- "How to Handle Data Duplication in Data-Heavy Kubernetes Environments" (published Wednesday, September 29, 2021) with a link to "Read more".

On the far right, there's a sidebar with various links: RSS Feed, Submit a Post, @Kubernetesio, on GitHub, #kubernetes-users, Overflow, Forum, and Kubernetes.

Recap

You can contribute by:

- Filing issues: Suggest features or report bugs
- Helping with web design
- Reviewing pull requests
- Localizing existing pages
- Writing new content
- Improving existing content (*text and diagrams*)

SIG Docs uses Git, GitHub, Hugo and Netlify to make it all work

- You can edit pages and open pull requests directly within GitHub's website.
- If you're suggesting changes, you can preview them locally first.



KubeCon



CloudNativeCon

North America 2021

RESILIENCE
REALIZED

Next Steps

Next steps

Lurk if you like

- ✓ OK to feel overwhelmed
(but we want to help!)
- ✓ Start small

Get an idea of

- Who is working on what?
- What tasks are under way?
- What's on the roadmap?



Getting going

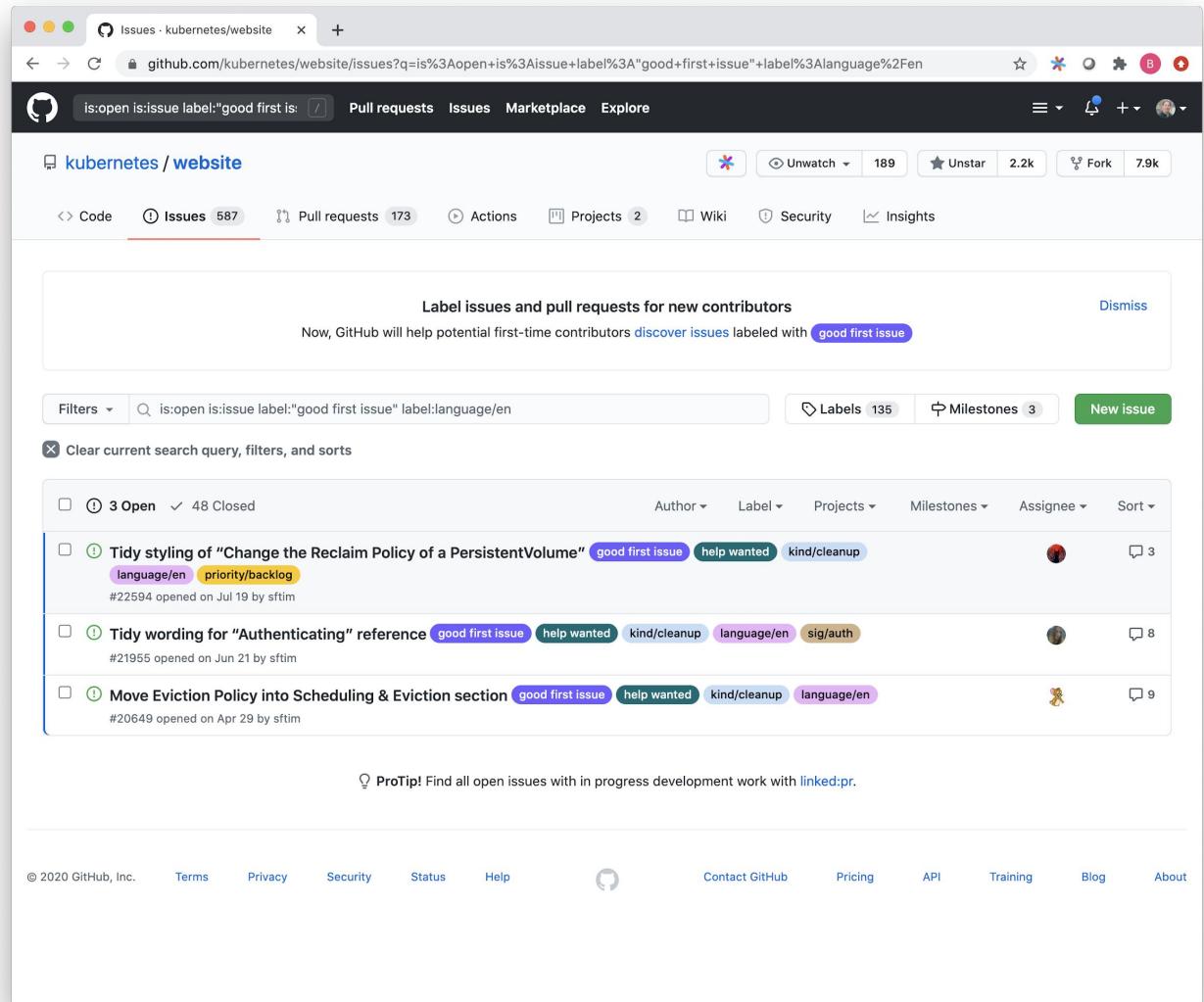
We are here to help to you get started!

Kubernetes Slack: [#sig-docs](#) & [#sig-docs-localization](#)

Google group: [kubernetes-sig-docs](#)

Weekly SIG meetings on [Zoom](#) or slack standups

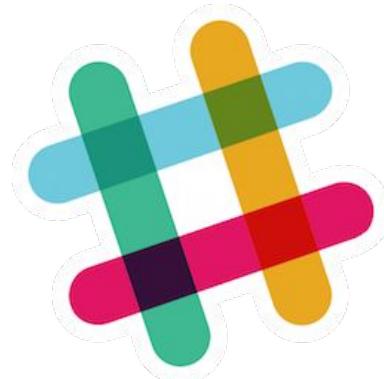
[Good first issues](#) on GitHub



Get in touch

Not signed up yet? Get an invitation from <https://slack.k8s.io/>.
Then, depending on your interest, you can join:

- **#sig-docs** on Kubernetes Slack
- **#sig-docs-localizations** plus language-specific channels
- **#sig-docs-blog**





KubeCon



CloudNativeCon

North America 2021

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Thanks!

“Contributing is not only about code.
It is about helping a community.”

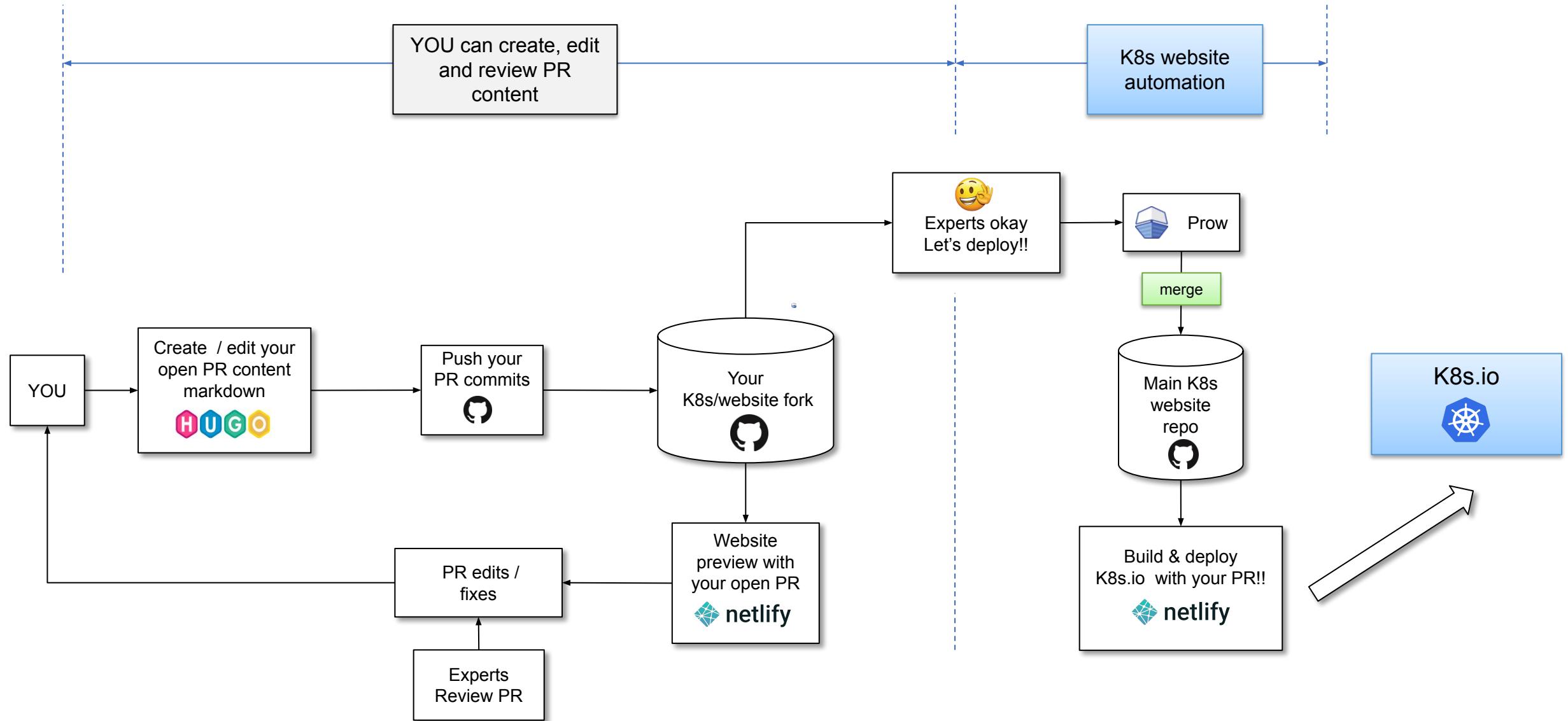
— Nikhita Raghunath

(2) Notes - Why should you contribute to SIG Docs?

- You are contributing to the open source community.
- You will enhance your skill set.
- You will share your work with the global cloud native community
- You can import your knowledge into your “day job” if/where appropriate
- You can follow the SIG Docs community “career path”

Content

Simple View of K8s Docs PR Workflow for the New Contributor



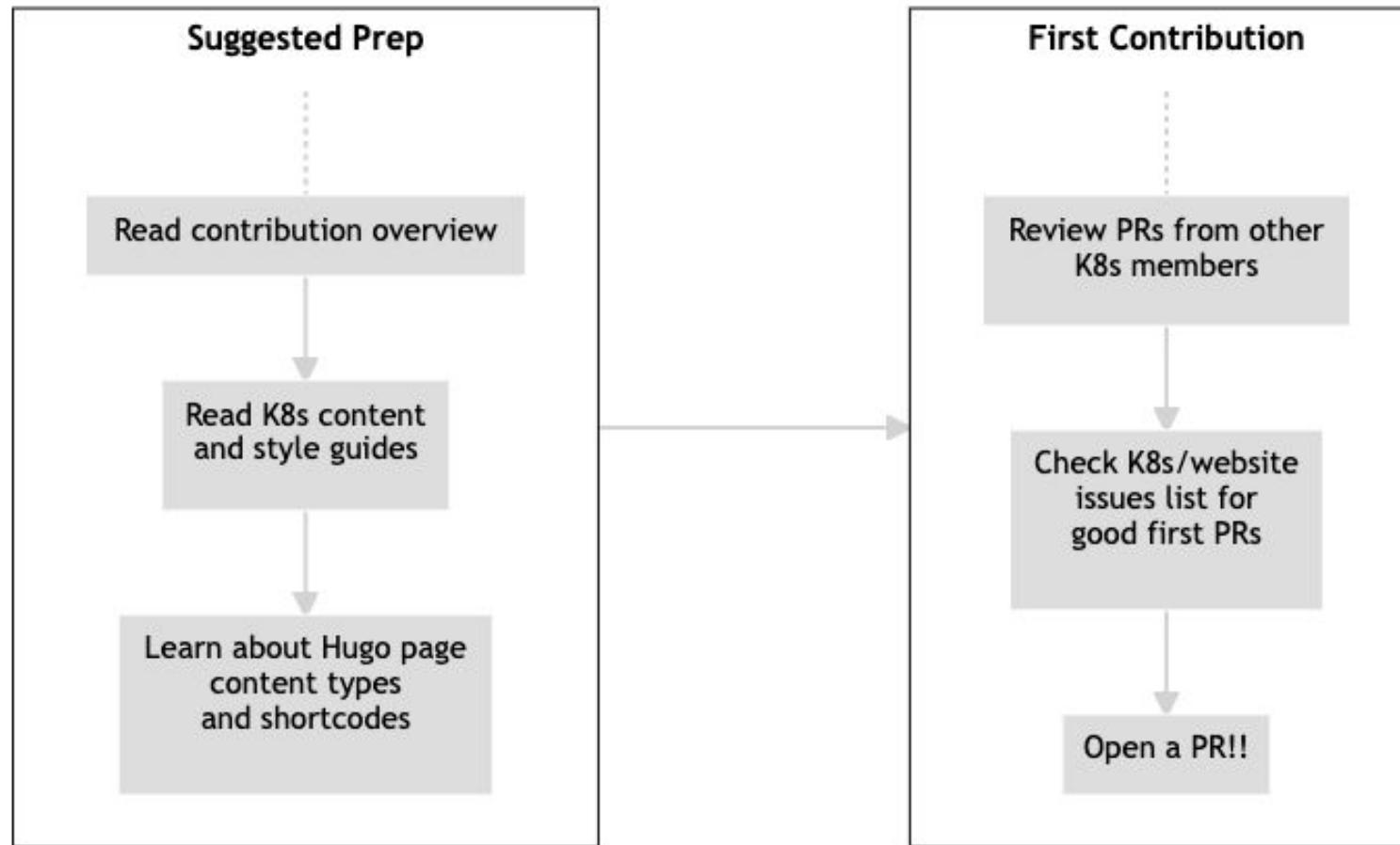
Notes: Preso deck ideas

- We have 35mins. Gear towards new contributors?
- If I was a new contributor what would I want to see?
 - What is sig docs? What is it not? Why is it important?
 - What kind of content is needed?
 - Why should I contribute? What is in it for me?
 - What are the components I need to know about? Github, markdown, hugo, localization automation process. Pipeline from content to K8s.io deployment.
 - PR example
 - How can I get started?

Notes: SIG Docs Pieces

- Roles ... chairs, tech leads, members
- Github source
- Website/issues and website/PRs
- Hugo/markdown
- Git
- Prow, Netlify automation/CD process
- Localization
- ??

Notes: A new contributor slide for possible use.



Add diagrams to your contributions

Work in progress.

To be added to final deck.



Hugo extends Golang's
built-in templating.

Documentation style guide

<https://k8s.io/docs/contribute/style/>

Excerpt

Code snippet formatting

Don't include the command prompt

Do

Don't

```
kubectl get pods    $ kubectl get pods
```

Separate commands from output

Verify that the pod is running on your chosen node:

```
kubectl get pods --output=wide
```

The output is similar to this:

NAME	READY	STATUS	RESTARTS	AGE	IP	NODE
nginx	1/1	Running	0	13s	10.200.0.4	worker0

Good first issues on GitHub

Google group: [kubernetes-sig-docs](#)

You also can say Hello at one of our weekly SIG meetings on [Zoom](#)

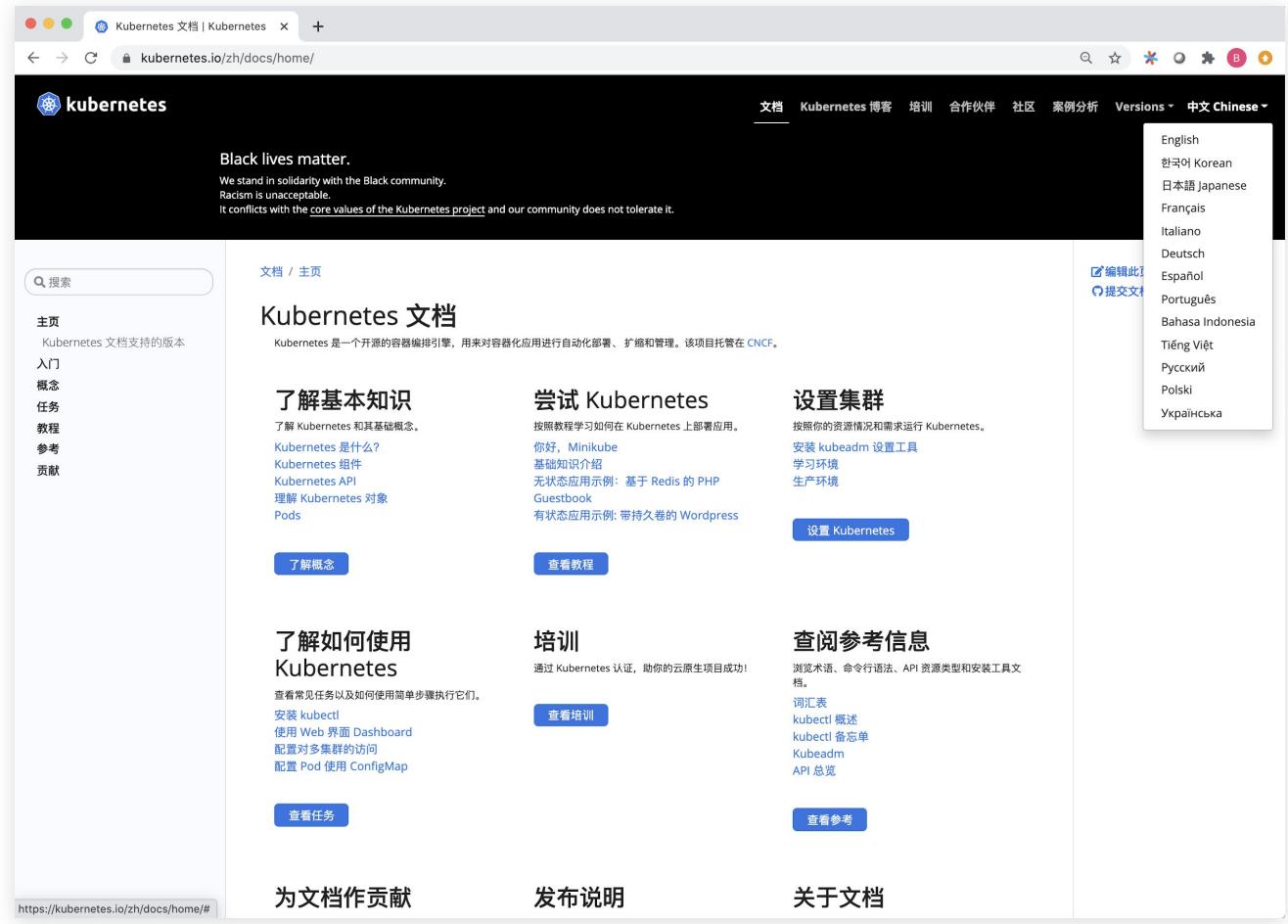


See Slack for details

A screenshot of a web browser displaying the GitHub repository for the Kubernetes website. The URL in the address bar is `github.com/kubernetes/website/issues?q=is%3Aopen+is%3Aissue+label%3A"good+first+issue"+label%3Alanguage%2Fen`. The page shows a list of pull requests under the 'Issues' tab, which has 587 items. A modal window is open at the top, titled 'Label issues and pull requests for new contributors', with the message: 'Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)'. Below the modal, there are search filters, a 'New issue' button, and a list of three pull requests. Each pull request is labeled with 'good first issue', 'help wanted', 'kind/cleanup', 'language/en', and 'priority/backlog'. The pull requests are: #22594 (Tidy styling of "Change the Reclaim Policy of a PersistentVolume"), #21955 (Tidy wording for "Authenticating" reference), and #20649 (Move Eviction Policy into Scheduling & Eviction section). At the bottom of the page, there is a 'ProTip!' message: 'Find all open issues with in progress development work with [linked:pr](#)'.

The documentation is actively being translated into 13 different languages, including:

- English
- Chinese
- French
- German
- Indonesian
- Japanese
- Korean
- Polish
- Portuguese
- Russian
- Spanish
- Ukrainian
- Vietnamese



SIG Docs curates a list of “good first issues” that have been identified as good choices for making your first contribution!

<https://github.com/kubernetes/website/contribute>

The screenshot shows a GitHub repository page for `kubernetes/website`. The URL in the address bar is `github.com/kubernetes/website/contribute`. The page title is "Contribute to kubernetes/website". A callout box on the right says "Read the contributing guidelines" pointing to `CONTRIBUTING.md`. Below the title, it says "Make your first contribution to this repository by tackling one of the issues listed below." A note states: "Each issue displayed here is a 'good first issue,' selected for its relative approachability for first-time contributors." A section titled "Good first issues" lists several issues:

- ① ja-trans: Move content/ja/docs/concepts/configuration/assign-pod-node.md to content/ja/docs/concepts/scheduling-eviction/assign-pod-node.md good first issue help wanted language/ja #24265 opened 14 days ago by kakts
- ① Configure Pod Initialization good first issue help wanted kind/bug language/en priority/backlog triage/accepted #24105 opened 20 days ago by SystemicEmotions
- ① Update Chinese localization for v1.19 good first issue help wanted kind/cleanup language/zh #23775 opened on Sep 9 by sftim
- ① ja: Make docs/concepts/extend-kubernetes/_index.md follow v1.18 of the original text good first issue help wanted language/ja #23620 opened on Aug 31 by kakts
- ① ja: Make docs/concepts/extend-kubernetes/extend-cluster.md follow v1.18 of the original text good first issue help wanted language/ja #23617 opened on Aug 31 by kakts
- ① ja: Make docs/concepts/overview/working-with-objects/labels.md follow v1.18 of the original text good first issue help wanted language/ja #23608 opened on Aug 31 by kakts
- ① ja: Make docs/concepts/services-networking/add-entries-to-pod-etc-hosts-with-host-aliases.md follow v1.18 of the original text good first issue help wanted language/ja #23602 opened on Aug 31 by kakts
- ① ja: Make docs/concepts/services-networking/dual-stack.md follow v1.18 of the original text good first issue help wanted language/ja #23599 opened on Aug 31 by kakts
- ① ja: Make docs/concepts/storage/persistent-volumes.md follow v1.18 of the original text good first issue help wanted language/ja #23598 opened on Aug 31 by kakts



Hugo extends Golang's
built-in templating.

Simple view of K8s docs PR workflow for the new contributor

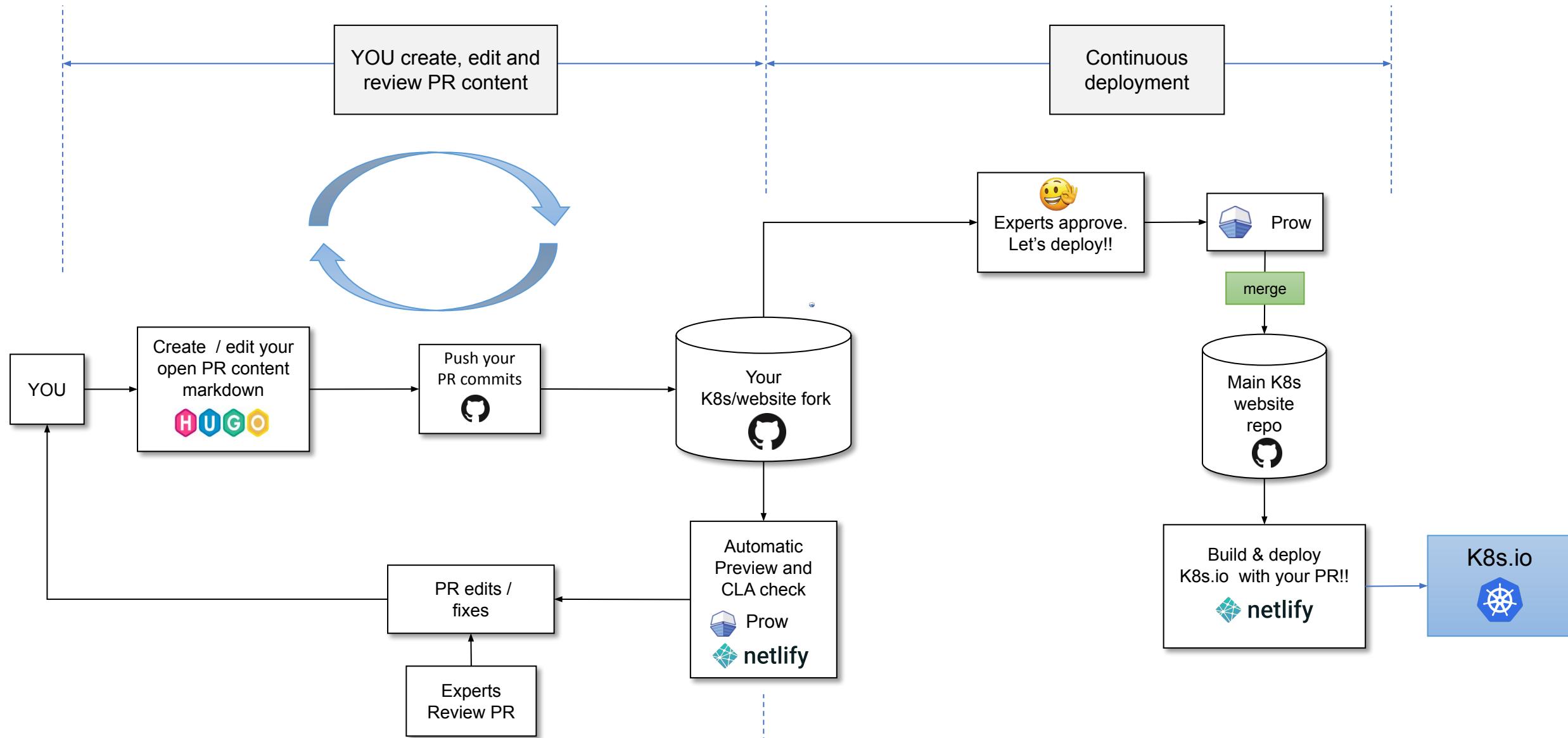


KubeCon



CloudNativeCon

North America 2021



SIG Docs

The documentation special interest group maintains the Kubernetes website at

<https://k8s.io/>

The screenshot shows the official Kubernetes website (kubernetes.io) displayed in a web browser. The page features a dark header with the Kubernetes logo and navigation links for Documentation, Kubernetes Blog, Training, Partners, Community, Case Studies, Versions, and English. Below the header, a large banner reads "Production-Grade Container Orchestration" and "Automated container deployment, scaling, and management". A blue button labeled "Learn Kubernetes Basics" is visible. The main content area includes a description of what Kubernetes is, its history, and its benefits like "Planet Scale" and "Never Outgrow". To the right, there are diagrams illustrating the Kubernetes architecture, such as a cluster of nodes connected to a central controller and a grid of colored squares representing scalability.

kubernetes

Documentation Kubernetes Blog Training Partners Community Case Studies Versions ▾ English ▾

Production-Grade Container Orchestration

Automated container deployment, scaling, and management

Learn Kubernetes Basics

Kubernetes (K8s) is an open-source system for automating deployment, scaling, and management of containerized applications.

It groups containers that make up an application into logical units for easy management and discovery. Kubernetes builds upon [15 years of experience of running production workloads at Google](#), combined with best-of-breed ideas and practices from the community.

Planet Scale

Designed on the same principles that allows Google to run billions of containers a week, Kubernetes can scale without increasing your ops team.

Never Outgrow

Whether testing locally or running a global enterprise, Kubernetes flexibility grows with you to deliver your applications consistently and easily no matter how complex your need is.

SIG Docs Tools Stack

