



THE LINUX FOUNDATION



NORTH AMERICA

# Driving Kubernetes' Global Adoption and Contributions with Documentation

Rey Lejano, Red Hat



# whoami



Rey Lejano

- @ Red Hat
- SIG Docs co-chair and tech lead
- SIG Security subproject lead
- Kubernetes 1.23 release lead
- CNCF Ambassador

@reylejano everywhere

# A Project That Doesn't Have Users is Pointless...

- Linus Torvalds

<https://www.youtube.com/watch?v=mfv0V1SxbNA>  
51:12





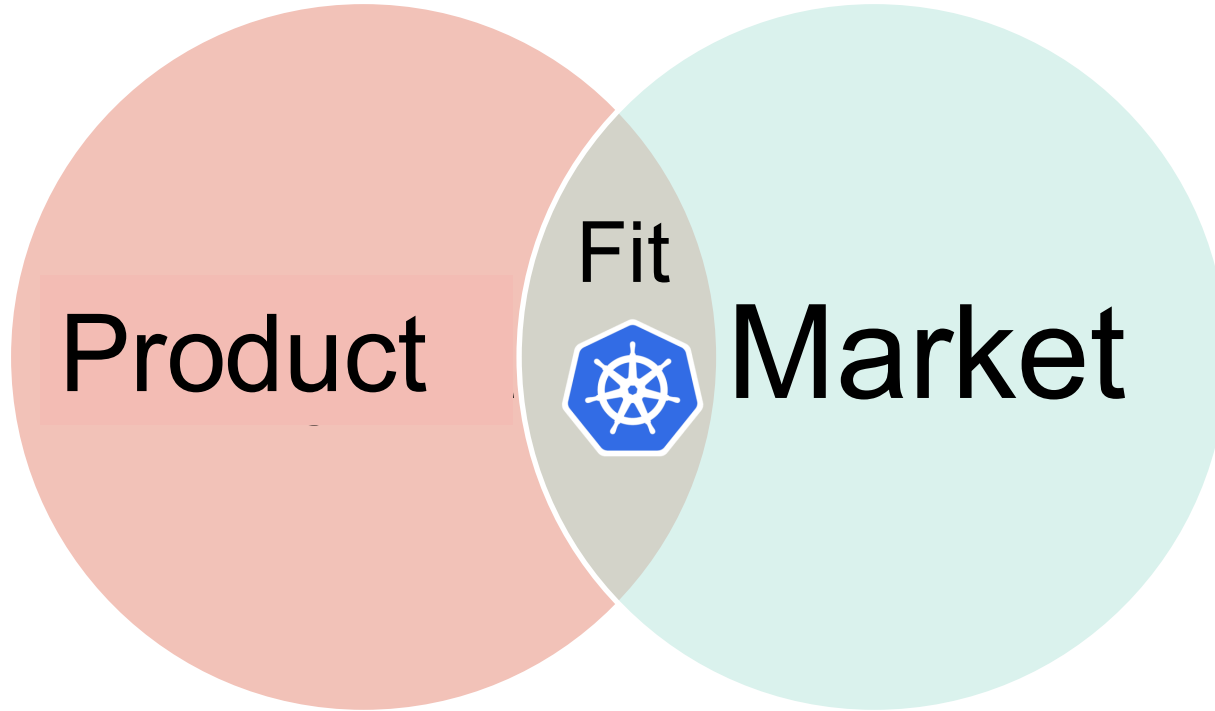
# SIG Docs

Docs

- SIG Docs publishes and maintains the Kubernetes documentation on kubernetes.io
- Subprojects: website, blog, reference docs, localization
- Kubernetes documentation is available in 16 localizations
  - On May 13, فارسی Farsi (Persian) localization went live
- Support the Release Team Docs subteam for docs on new features or on release-related blogs



# PMF



**PMF**

**Project**



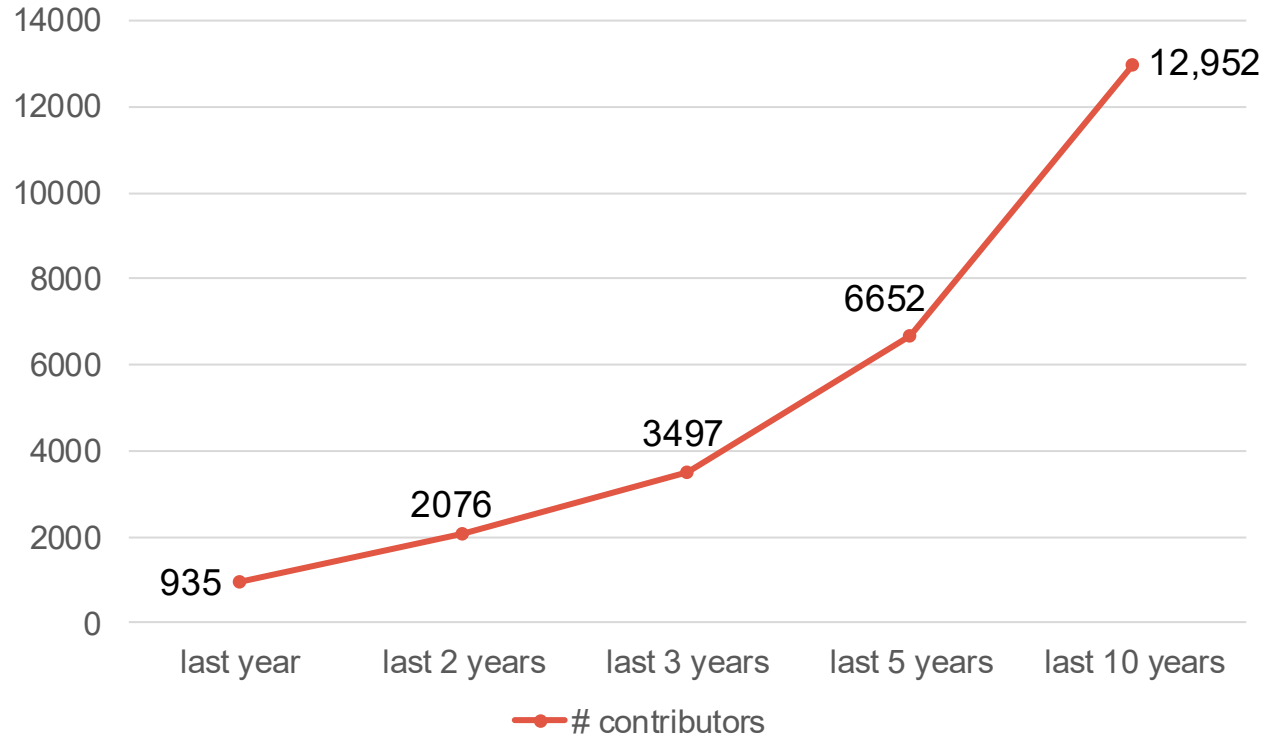
# Where do Docs fit?

- Docs are part of Kubernetes
- The largest SIG of Kubernetes
- Docs is community



# kubernetes/website Contributors

# contributors



# Docs Drive Adoption

- Sarah Corleissen

Author of

**Docs for Developers:  
An Engineer's Field Guide  
to Technical Writing**



# Good Documentation Drives Adoption of Open Source Projects



OPEN SOURCE SUMMIT

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Embedded Linux  
Conference



# Global Adoption



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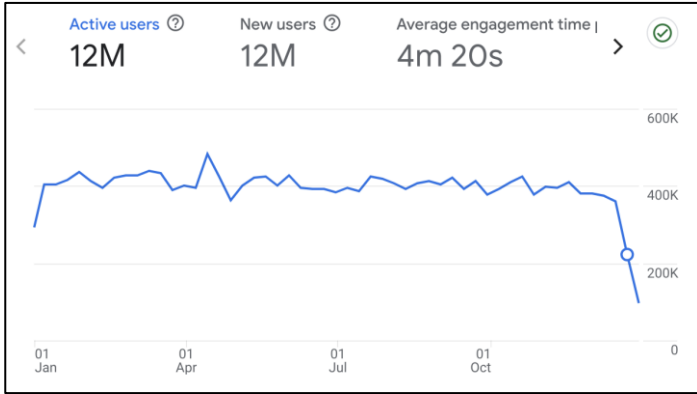
NORTH AMERICA



Embedded Linux  
Conference

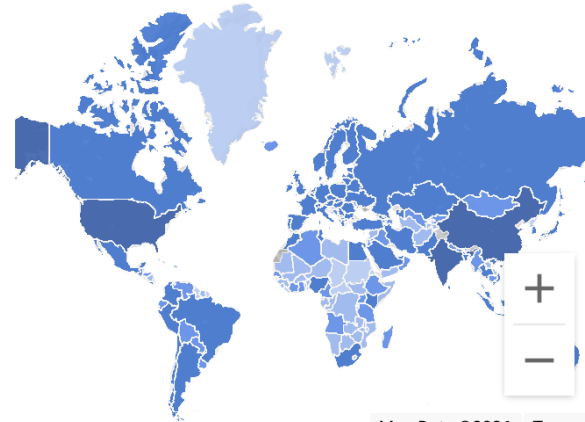


# 2024



Custom Jan 1 - Dec 31, 2024

Active users by Country



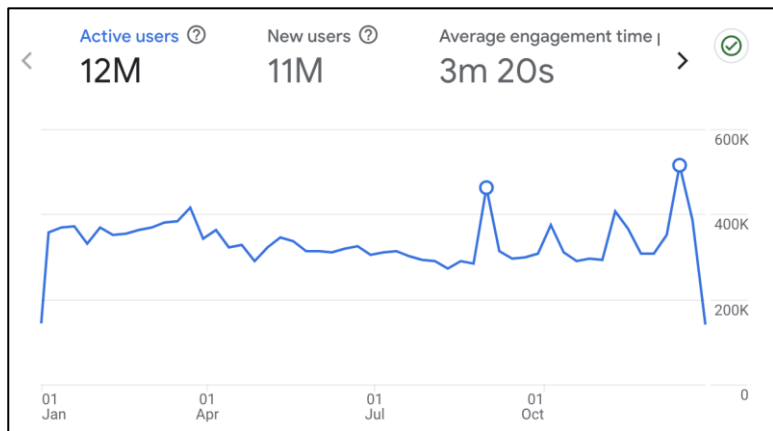
COUNTRY	ACTIVE USERS
United States	2.8M
India	1.8M
China	956K
Germany	552K
United Kingdom	437K
Russia	412K
France	361K

[View countries](#) →

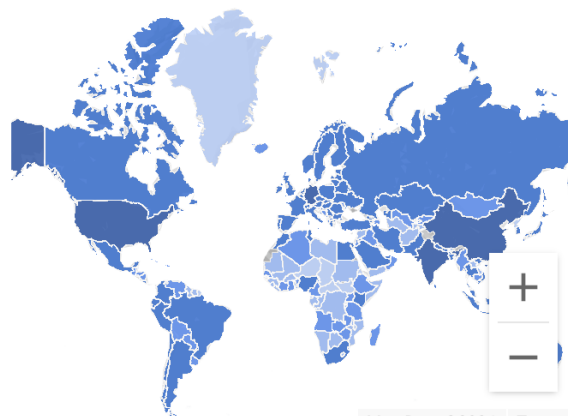
Country ▾ +		↓ <u>Active users</u>	<u>New users</u>	<u>Engaged sessions</u>	<u>Engagement rate</u>
Total		12,360,293 100% of total	11,702,183 100% of total	23,028,274 100% of total	48.82% Avg 0%
1	United States	2,775,921 (22.46%)	2,572,911 (21.99%)	4,202,111 (18.25%)	46.34%
2	India	1,774,884 (14.36%)	1,657,546 (14.16%)	3,588,546 (15.58%)	49.53%
3	China	967,003 (7.82%)	855,577 (7.31%)	1,642,212 (7.13%)	50.58%
4	Germany	556,403 (4.5%)	497,266 (4.25%)	1,065,821 (4.63%)	51%
5	United Kingdom	439,873 (3.56%)	392,918 (3.36%)	885,996 (3.85%)	50.24%
6	Russia	414,503 (3.35%)	388,501 (3.32%)	820,122 (3.56%)	49.33%
7	France	363,554 (2.94%)	329,233 (2.81%)	771,186 (3.35%)	52.63%
8	Japan	360,703 (2.92%)	316,982 (2.71%)	766,874 (3.33%)	52.65%
9	South Korea	320,360 (2.59%)	297,272 (2.54%)	754,827 (3.28%)	53.47%
10	Brazil	293,236 (2.37%)	277,759 (2.37%)	555,913 (2.41%)	50.59%

# 2025

Custom Jan 1 - Dec 31, 2025



Active users by Country



COUNTRY	ACTIVE USERS
<a href="#">United States</a>	2.6M
<a href="#">India</a>	1.4M
<a href="#">China</a>	1.3M
<a href="#">Germany</a>	676K
<a href="#">United Arab Emirat...</a>	399K
<a href="#">United Kingdom</a>	387K
<a href="#">Russia</a>	332K

Map Data ©2026 Terms

[View countries](#) →

Last calendar year Jan 1 - Dec 31, 2025 ▾

Country ▾ +	↓ <u>Active users</u>	<u>New users</u>	<u>Engaged sessions</u>	<u>Engagement rate</u>
Total	11,591,685 100% of total	11,068,750 100% of total	17,950,462 100% of total	47.89% Avg 0%
1 United States	2,578,333 (22.24%)	2,484,292 (22.44%)	3,202,827 (17.84%)	44.22%
2 India	1,442,312 (12.44%)	1,324,380 (11.97%)	2,477,297 (13.8%)	48.21%
3 China	1,345,630 (11.61%)	1,227,130 (11.09%)	1,212,181 (6.75%)	45.52%
4 Germany	675,891 (5.83%)	627,629 (5.67%)	965,553 (5.38%)	47.32%
5 United Arab Emirates	399,108 (3.44%)	442,676 (4%)	214,465 (1.19%)	42.86%
6 United Kingdom	387,486 (3.34%)	343,941 (3.11%)	746,625 (4.16%)	49.79%
7 Russia	332,172 (2.87%)	299,412 (2.71%)	584,765 (3.26%)	45.29%
8 France	311,893 (2.69%)	276,986 (2.5%)	616,066 (3.43%)	50.09%
9 Brazil	301,587 (2.6%)	283,376 (2.56%)	407,958 (2.27%)	46.35%
10 Japan	293,761 (2.53%)	253,055 (2.29%)	585,632 (3.26%)	53.22%

# 2024 vs 2025

## 2024

Total	12,360,293 100% of total
1 United States	2,775,921 (22.46%)
2 India	1,774,884 (14.36%)
3 China	967,003 (7.82%)
4 Germany	556,403 (4.5%)
5 United Kingdom	439,873 (3.56%)
6 Russia	414,503 (3.35%)
7 France	363,554 (2.94%)
8 Japan	360,703 (2.92%)
9 South Korea	320,360 (2.59%)
10 Brazil	293,236 (2.37%)

## 2025

Total	11,591,685 100% of total
1 United States	2,578,333 (22.24%)
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6 United Kingdom	387,486 (3.34%)
7 Russia	332,172 (2.87%)
8 France	311,893 (2.69%)
9 Brazil	301,587 (2.6%)
10 Japan	293,761 (2.53%)

# 2026 year-to-date

This year (Jan - Today) Jan 1 - May 18, 2026 ▾

Active users ⓘ

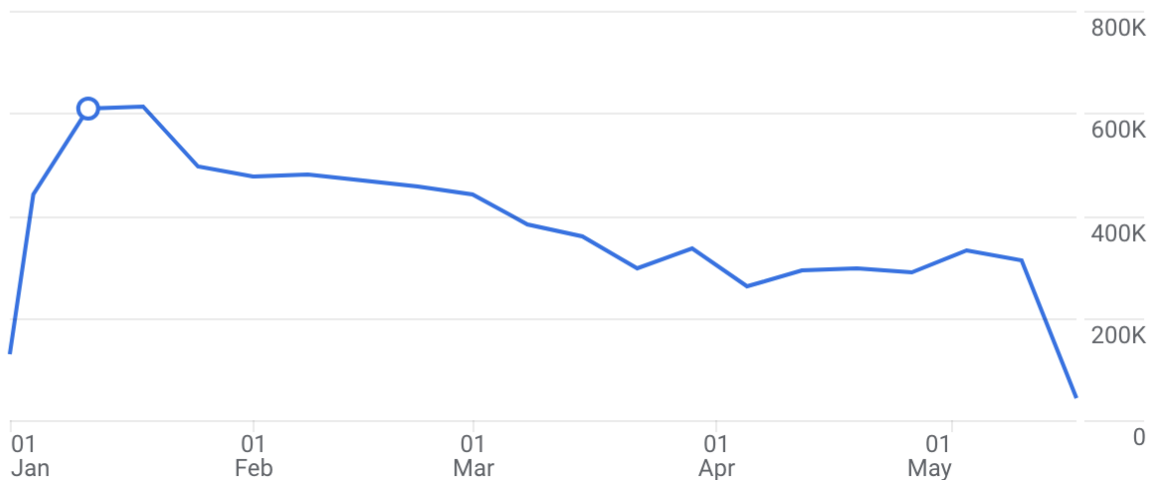
6.5M

New users ⓘ

5.9M

Average engagement time |

1m 35s



# 2025 same period

Custom Jan 1 - May 18, 2025

Active users ?

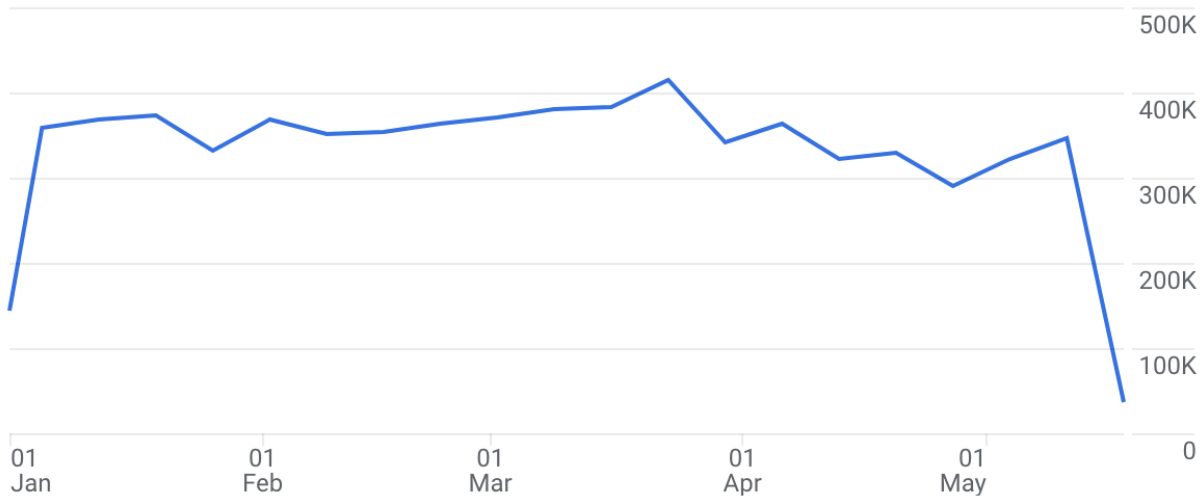
4.6M

New users ?

4.1M

Average engagement time |

3m 45s



# 2025 vs 2026

Custom Jan 1 - May 18, 2025

Active users ?

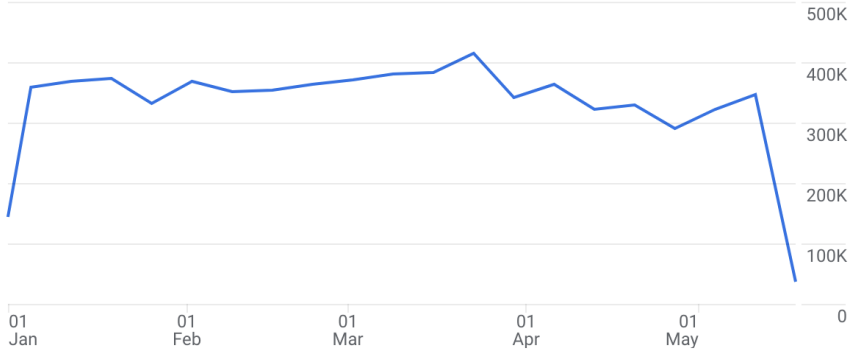
4.6M

New users ?

4.1M

Average engagement time |

3m 45s



This year (Jan - Today) Jan 1 - May 18, 2026

Active users ?

6.5M

New users ?

5.9M

Average engagement time |

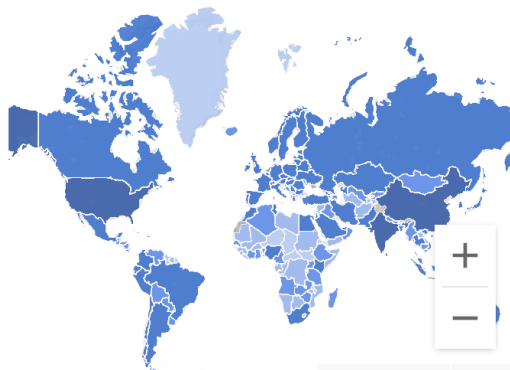
1m 35s



# By country

Custom Jan 1 - May 18, 2025

Active users by Country



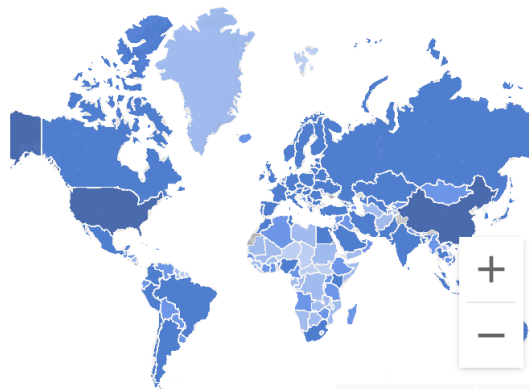
Map Data ©2026 Terms

COUNTRY	ACTIVE USERS
United States	1.1M
India	661K
China	295K
Germany	223K
United Kingdom	173K
Russia	152K
France	139K

[View countries](#) →

This year (Jan - Today) Jan 1 - May 18, 2026

Active users by Country



Map Data ©2026 Terms

COUNTRY	ACTIVE USERS
China	2.6M
United States	1.2M
India	469K
Singapore	242K
Germany	183K
United Kingdom	155K
France	111K

# Tech Stack



# kubernetes.io Tech Stack

- [kubernetes.io](https://kubernetes.io) is a static site generated from markdown
- Source is <https://github.com/kubernetes/website>



Netlify

- Build, deploy, host, CDN



Mermaid JS

- Diagrams from markdown



Docusaurus

- Hugo theme
- Templating, extends Go templating



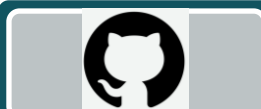
Hugo

- Static site generator and templating



Prow

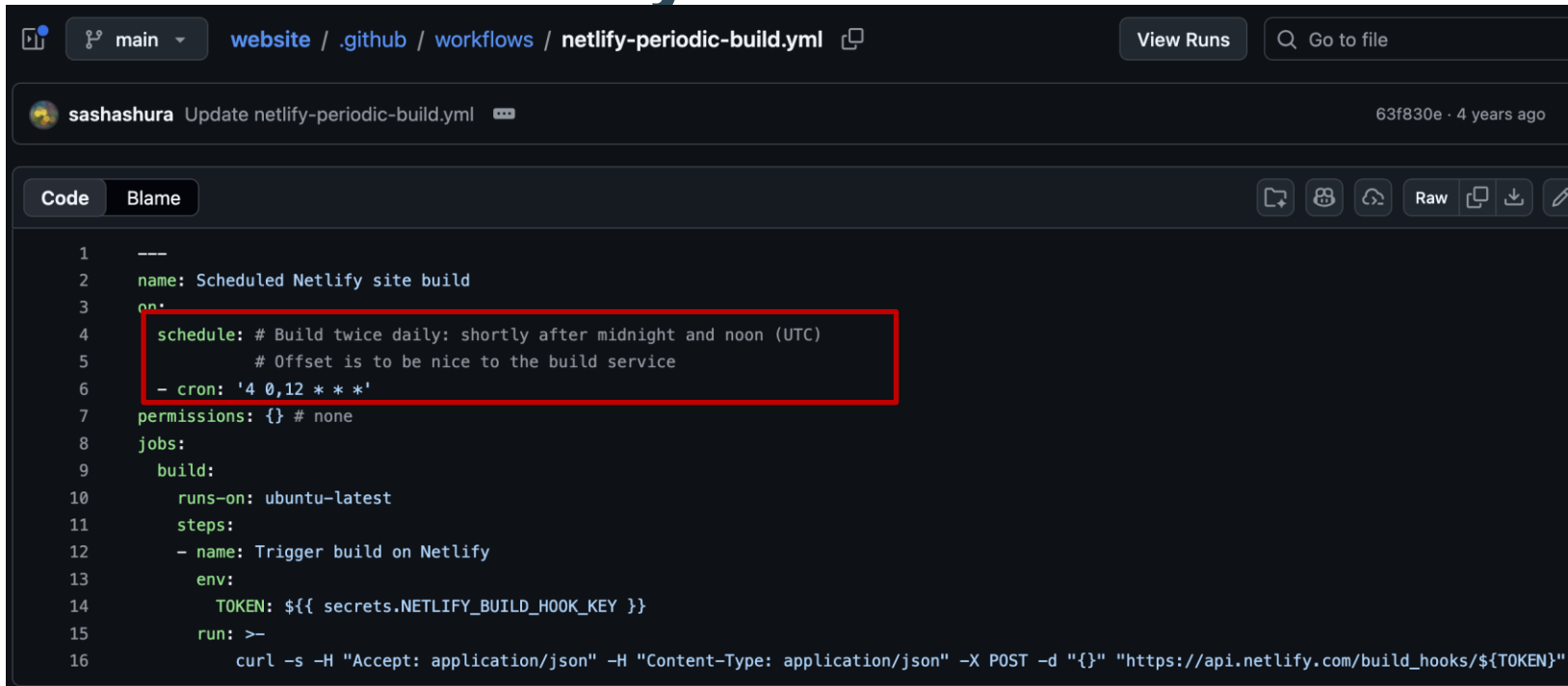
- Kubernetes CI/CD system



GitHub

- Source repository
- kubernetes/website

# Site builds twice a day.. and more



```
1 ---
2 name: Scheduled Netlify site build
3 on:
4   schedule: # Build twice daily: shortly after midnight and noon (UTC)
5             # Offset is to be nice to the build service
6   - cron: '4 0,12 * * *'
7 permissions: {} # none
8 jobs:
9   build:
10    runs-on: ubuntu-latest
11    steps:
12    - name: Trigger build on Netlify
13      env:
14        TOKEN: ${ secrets.NETLIFY_BUILD_HOOK_KEY }
15      run: >-
16        curl -s -H "Accept: application/json" -H "Content-Type: application/json" -X POST -d "{}" "https://api.netlify.com/build_hooks/${TOKEN}"
```

# Site builds after each PR merge and PR made



## Branches and deploy contexts

Deploy contexts are branch-based environments that enable you to configure builds depending on the context. This includes production and preview environments.

Production branch: **main**

Branch deploys: **Deploy all branches pushed to the repository**

Deploy Previews: **Any pull request against your production branch / branch deploy branches**

# Site builds after each PR merge and PR made



## Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

We will also send events from this repository to your [organization webhooks](#).

 <https://api.netlify.com/hooks/github> (delete, pull\_request, and p...)

Edit

Delete

# Continuous deployment updates kubernetes.io



# Community, Practices, Processes



# Join us, how to start

1. Join Kubernetes Slack <https://slack.k8s.io>
2. Join a SIG's Slack channel
  - a. List of SIGs: <https://github.com/kubernetes/community/blob/master/sig-list.md>
3. Read the contributing guide
  - a. <https://kubernetes.io/docs/contribute/docs/>
4. Check out the README.md, charter.md, CONTRIBUTING.md
  - a. <https://github.com/kubernetes/community/tree/master/sig-docs>
5. Join the SIG's mailing list to get calendar invites:  
<https://groups.google.com/g/kubernetes-sig-docs/>
6. Attend SIG meetings (biweekly Tuesdays at 10:30 am Pacific)

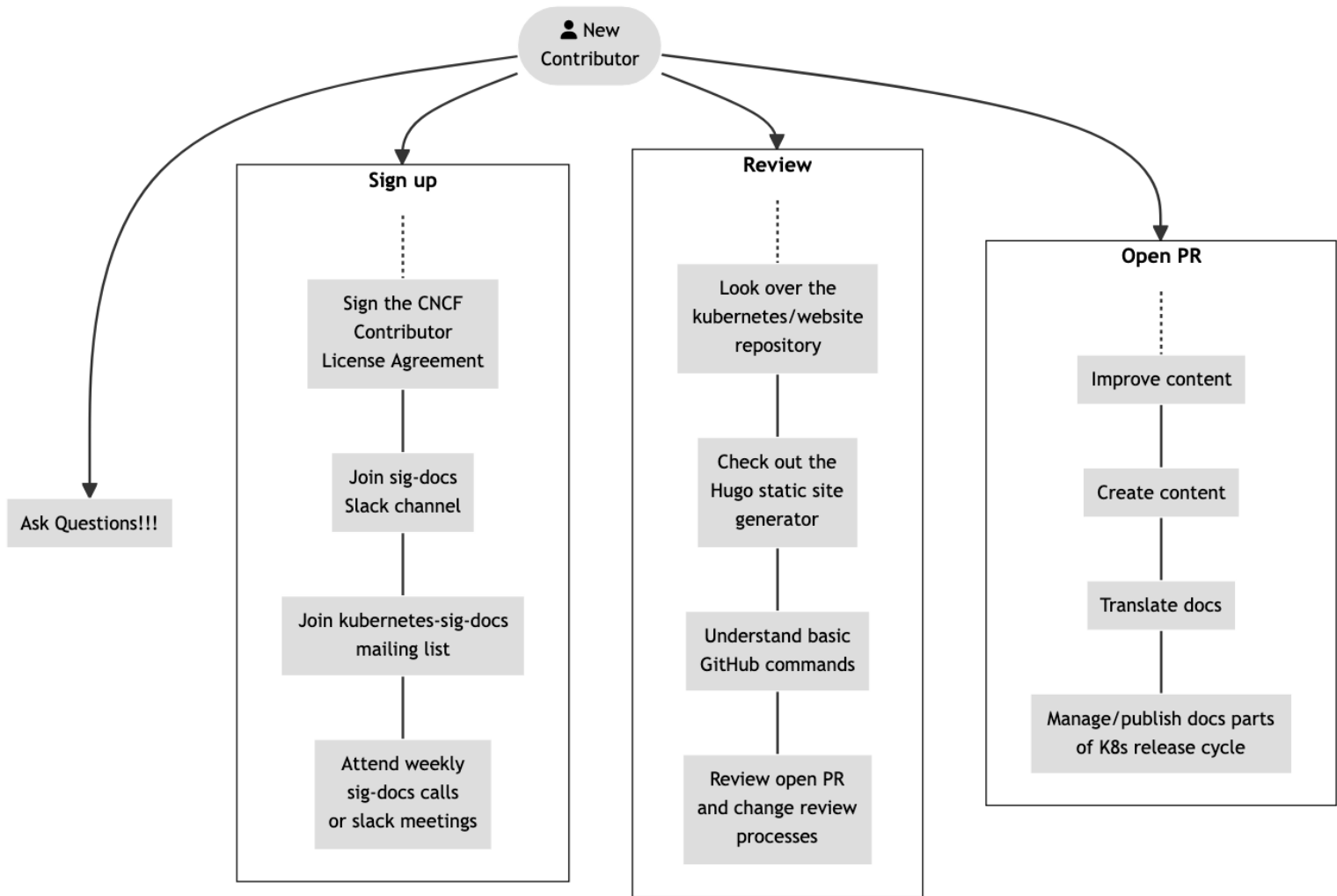
# Contribute to Kubernetes Documentation

This website is maintained by [Kubernetes SIG Docs](#). The Kubernetes project welcomes help from all contributors, new or experienced!

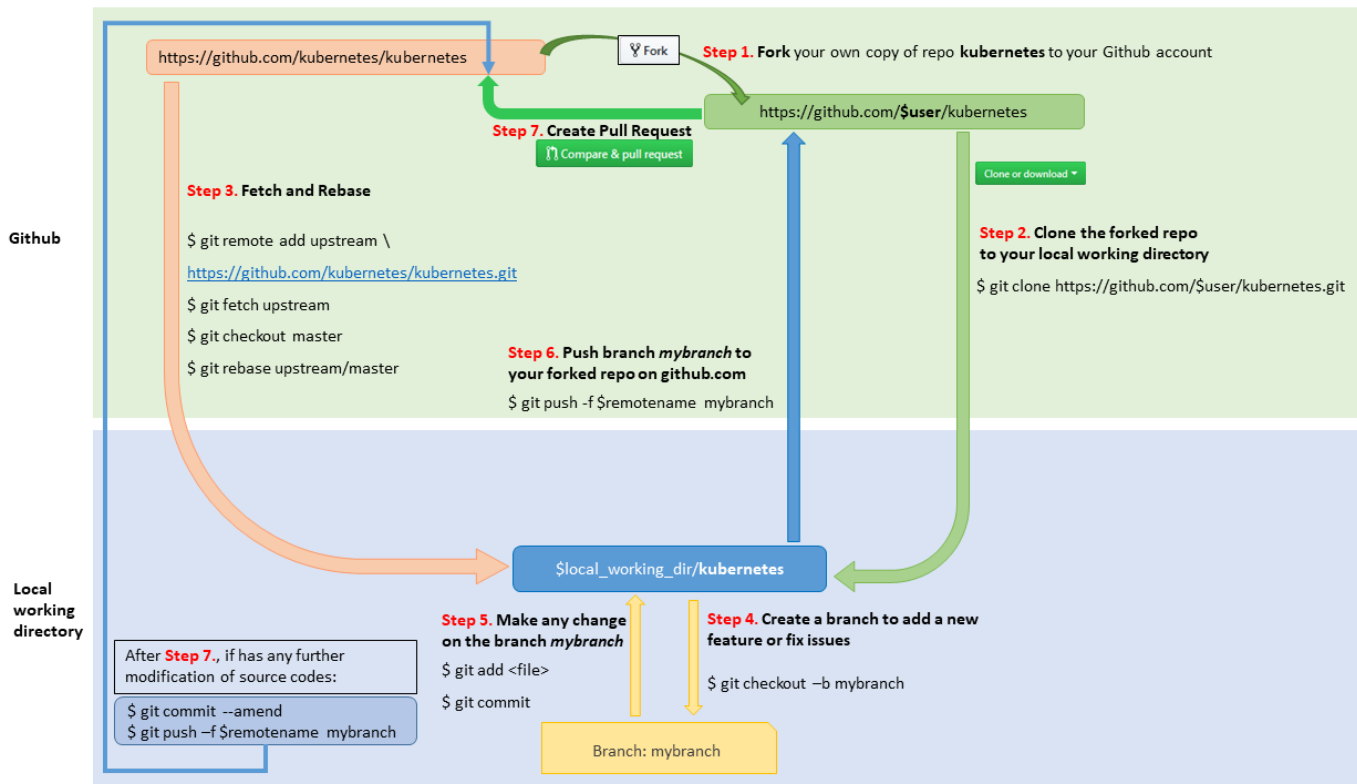
Kubernetes documentation contributors:

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

The blog team, part of SIG Docs, helps manage the official blogs. Read [contributing to Kubernetes blogs](#) to learn more.



# GitHub Flow



# Inspired Mentorship



**dims** 2 years ago

Most of open source works by discovery, so it's important to learn how information is structured, where are the sources of information and how to navigate them on your own.

- <https://bit.ly/kubernetes-resources>

## Beginner Resources

Resource	Description
Kube Academy	<a href="https://kubernetes.io/learn/">https://kubernetes.io/learn/</a>
kuernetes-101	<a href="https://kubernetes.io/docs/tutorials/kubernetes-basics/">https://kubernetes.io/docs/tutorials/kubernetes-basics/</a>
Docs Home	<a href="https://kubernetes.io/docs/home/">https://kubernetes.io/docs/home/</a>
CKS CKA CKAD Simulator	<a href="https://killer.sh/">https://killer.sh/</a>
udemy	<a href="https://www.udemy.com/topic/certified-kubernetes/">https://www.udemy.com/topic/certified-kubernetes/</a>
dev.to	<a href="https://dev.to/liptanbiswas/ckad-practice-questions">https://dev.to/liptanbiswas/ckad-practice-questions</a>

## Developers Resources

Resource	Description
Dims Twitter thread - contribution to k8s	<a href="https://twitter.com/dims/status/1329400521234567890">https://twitter.com/dims/status/1329400521234567890</a>
Kubernetes Contributor site	<a href="https://k8s.dev/">https://k8s.dev/</a>
Kubernetes Slack	<a href="https://slack.k8s.io/">https://slack.k8s.io/</a>
Developers guide	<a href="https://github.com/kubernetes/community/blob/master/DEVELOPER_GUIDE.md">https://github.com/kubernetes/community/blob/master/DEVELOPER_GUIDE.md</a>
Contributors guide	<a href="https://github.com/kubernetes/community/blob/master/CONTRIBUTING.md">https://github.com/kubernetes/community/blob/master/CONTRIBUTING.md</a>

# Contributor Ladder



SIG co-chair

Technical lead

Subproject lead

Approver

Reviewer

Org Member

Non-member contributor

<https://github.com/kubernetes/community/blob/master/community-membership.md>

# Contributor Ladder



Co-chair

Technical lead

Subproject lead

Approver

PR Wrangler (shadows)

Reviewer

Issue Wrangler

Org Member

Non-member contributor

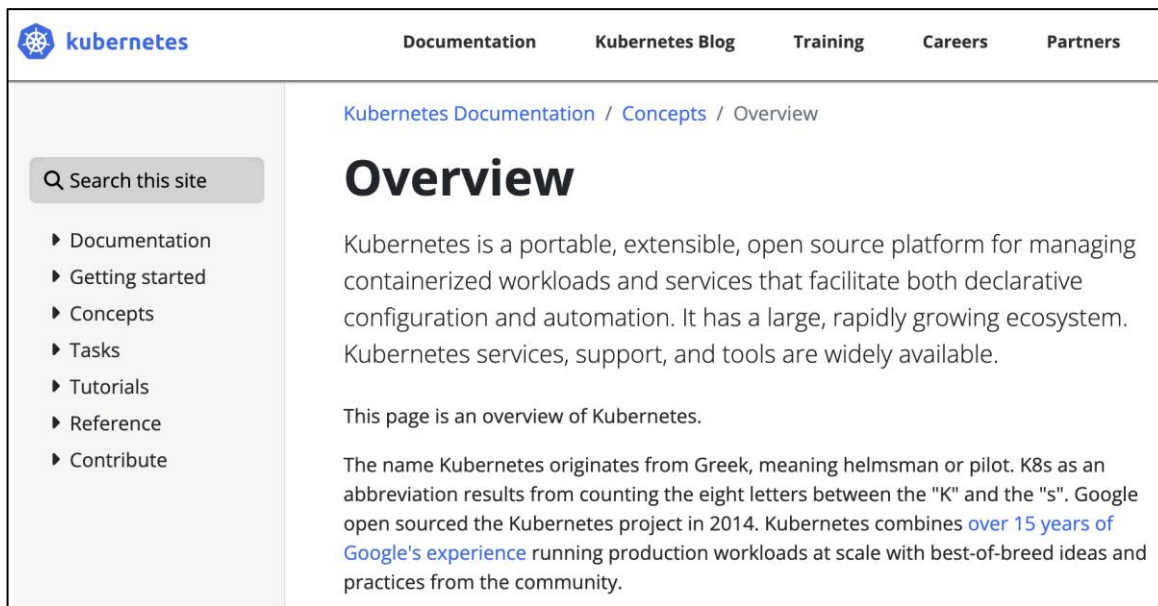
<https://github.com/kubernetes/community/blob/master/community-membership.md>

# Subprojects



- Website
- Blog – curate blogs for users
  - Blog on [kubernetes.dev](https://kubernetes.dev) targets contributors
- Localization
- Reference Docs

# Website



The screenshot shows the Kubernetes website's navigation and content. At the top left is the Kubernetes logo and name. The top navigation bar includes links for Documentation, Kubernetes Blog, Training, Careers, and Partners. A left sidebar contains a search bar and a list of navigation items: Documentation, Getting started, Concepts, Tasks, Tutorials, Reference, and Contribute. The main content area displays the breadcrumb 'Kubernetes Documentation / Concepts / Overview', the title 'Overview', and two paragraphs of introductory text about the platform's purpose and history.

kubernetes

Documentation Kubernetes Blog Training Careers Partners

Q Search this site

- ▶ Documentation
- ▶ Getting started
- ▶ Concepts
- ▶ Tasks
- ▶ Tutorials
- ▶ Reference
- ▶ Contribute

[Kubernetes Documentation](#) / [Concepts](#) / [Overview](#)

## Overview

Kubernetes is a portable, extensible, open source platform for managing containerized workloads and services that facilitate both declarative configuration and automation. It has a large, rapidly growing ecosystem. Kubernetes services, support, and tools are widely available.

This page is an overview of Kubernetes.

The name Kubernetes originates from Greek, meaning helmsman or pilot. K8s as an abbreviation results from counting the eight letters between the "K" and the "s". Google open sourced the Kubernetes project in 2014. Kubernetes combines [over 15 years of Google's experience](#) running production workloads at scale with best-of-breed ideas and practices from the community.

# Style, Content, Diagram Guides

[Kubernetes Documentation](#) / [Contribute](#) / [Documentation style overview](#) / [Style guide](#)

## Documentation Style Guide

This page gives writing style guidelines for the Kubernetes documentation. These are guidelines, not rules. Use your best judgment, and feel free to propose changes to this document in a pull request.

[Kubernetes Documentation](#) / [Contribute](#) / [Documentation style overview](#) / [Content guide](#)

## Documentation Content Guide

This page contains guidelines for Kubernetes documentation.

If you have questions about what's allowed, join the #sig-docs channel in [Kubernetes Slack](#) and ask!

You can register for Kubernetes Slack at <https://slack.k8s.io/>.

For information on creating new content for the Kubernetes docs, follow the [style guide](#).

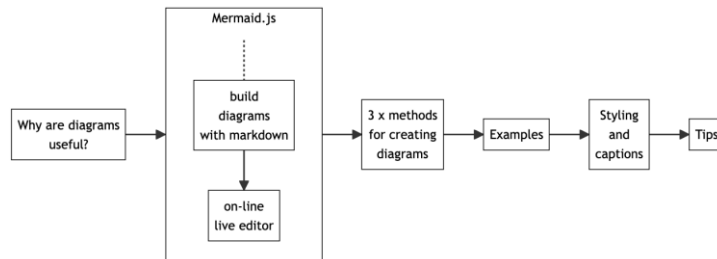
[Kubernetes Documentation](#) / [Contribute](#) / [Documentation style overview](#) / [Diagram guide](#)

## Diagram Guide

This guide shows you how to create, edit and share diagrams using the Mermaid JavaScript library. Mermaid.js allows you to generate diagrams using a simple markdown-like syntax inside Markdown files. You can also use Mermaid to generate `.svg` or `.png` image files that you can add to your documentation.

The target audience for this guide is anybody wishing to learn about Mermaid and/or how to create and add diagrams to Kubernetes documentation.

Figure 1 outlines the topics covered in this section.



# Blogs

- ▶ 2026
- ▶ 2025
- ▶ 2024
- ▶ 2023
- ▶ 2022
- ▶ 2021
- ▶ 2020
- ▶ 2019
- ▶ 2018
- ▶ 2017
- ▶ 2016
- ▶ 2015

## Posts in 2026

### [Kubernetes v1.36: New Metric for Route Sync in the Cloud Controller Manager](#)

By [Lukas Metzner](#) (Hetzner) | Friday, May 15, 2026 in Blog

This article was originally published with the wrong date. It was later republished, dated the 15th of May 2026. Kubernetes v1.36 introduces a new alpha counter metric `route_controller_route_sync_total` to the Cloud Controller Manager (CCM) route ...

[Read more](#)

### [Kubernetes v1.36: Mixed Version Proxy Graduates to Beta](#)

By [Richa Banker](#) (Google) | Friday, May 15, 2026 in Blog

Back in Kubernetes 1.28, we introduced the Mixed Version Proxy (MVP) as an Alpha feature (under the feature gate `UnknownVersionInteroperabilityProxy`) in a previous blog post. The goal was simple but critical: make cluster upgrades safer by ensuring ...

[Read more](#)

### [Kubernetes v1.36: Deprecation and removal of Service ExternalIPs](#)

By [Adrian Moisey](#) (independent), [Dan Winship](#) (Red Hat), | Thursday, May 14, 2026 in Blog

The `.spec.externalIPs` field for Service was an early attempt to provide cloud-load-balancer-like functionality for non-cloud clusters. Unfortunately, the API assumes that every user in the cluster is fully trusted, and in any situation where that is ...

[Read more](#)

# Reference Docs

**Core**

- [ComponentStatus.v1\\_core](#)
- [ConfigMap.v1\\_core](#)
- [Endpoints.v1\\_core](#)
- [LimitRange.v1\\_core](#)
- [Namespace.v1\\_core](#)
- [Node.v1\\_core](#)
- [PersistentVolume.v1\\_core](#)
- [PersistentVolumeClaim.v1\\_core](#)
- Pod.v1\_core**
- [Write Operations](#)
- [Read Operations](#)
- [Status Operations](#)
- [Resize Operations](#)
- [EphemeralContainers Op](#)
- [Proxy Operations](#)
- [Misc Operations](#)
- [PodTemplate.v1\\_core](#)
- [ReplicationController.v1\\_core](#)
- [ResourceQuota.v1\\_core](#)
- [Secret.v1\\_core](#)
- [Service.v1\\_core](#)
- [ServiceAccount.v1\\_core](#)

**Discovery**

- [EndpointSlice.v1\\_discovery.k](#)

## Pod v1 core

Group	Version	Kind
core	v1	Pod

**Appears In:**

- [PodList \[core/v1\]](#)

Field	Description
<a href="#">apiVersion</a> <i>string</i>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources</a>
<a href="#">kind</a> <i>string</i>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a>
<a href="#">metadata</a> <i>ObjectMeta</i>	Standard object's metadata. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata</a>
<a href="#">spec</a> <i>PodSpec</i>	Specification of the desired behavior of the pod. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status</a>
<a href="#">status</a> <i>PodStatus</i>	Most recently observed status of the pod. This data may not be up to date. Populated by the system. Read-only. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status</a>

# Localization Drive Inclusion Makes Kubernetes Globally Accessible



# Localizations

Translation is about words and meaning.

Localization is about words, meaning, process, and design.

...

Localization matters because it reduces barriers to adoption and support.

- Sarah Corleissen

<https://kubernetes.io/docs/contribute/localization/>

<https://kubernetes.io/docs/contribute/localization/#minimum-required-content>

# Localizations

ity

Versions ▾

English ▾

বাংলা (Bengali)

中文 (Chinese)

Français (French)

Deutsch (German)

हिन्दी (Hindi)

Bahasa Indonesia (Indonesian)

Italiano (Italian)

日本語 (Japanese)

한국어 (Korean)

فارسی (Persian)

Polski (Polish)

Português (Portuguese)

Русский (Russian)

Español (Spanish)

Українська (Ukrainian)

Tiếng Việt (Vietnamese)

# Thank you

- 12,952 contributors to kubernetes/website
- Co-chairs: Divya Mohan & Natali Vlatko
- Tech leads: Dipesh Rawat, Kat Cosgrove, Xander Grzywinski, Qiming Teng
- Emeritus leads: Jennifer Rondeau , Andrew Chen, Irvi Aini, Jared Bhatti, Jim Angel, Kaitlyn Barnard, Karen Bradshaw, Taylor Dolezal, Tim Bannister, Sarah Corleissen

# Thank you



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Embedded Linux  
Conference

