



KubeCon



CloudNativeCon

North America 2024





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Navigating Cross SIG Collaborations with SIG Docs

Divya Mohan, SUSE
Xander Grzywinski, Independent
Savitha Raghunathan, Red Hat
Rey Lejano, Red Hat

- The Kubernetes Organization
- SIG Docs
 - Tech Stack
 - Organization
 - Updating
- Collaborating with SIG Release
 - SIG Release - Release Team
 - Release Team Docs
 - Release Team Comms

Agenda

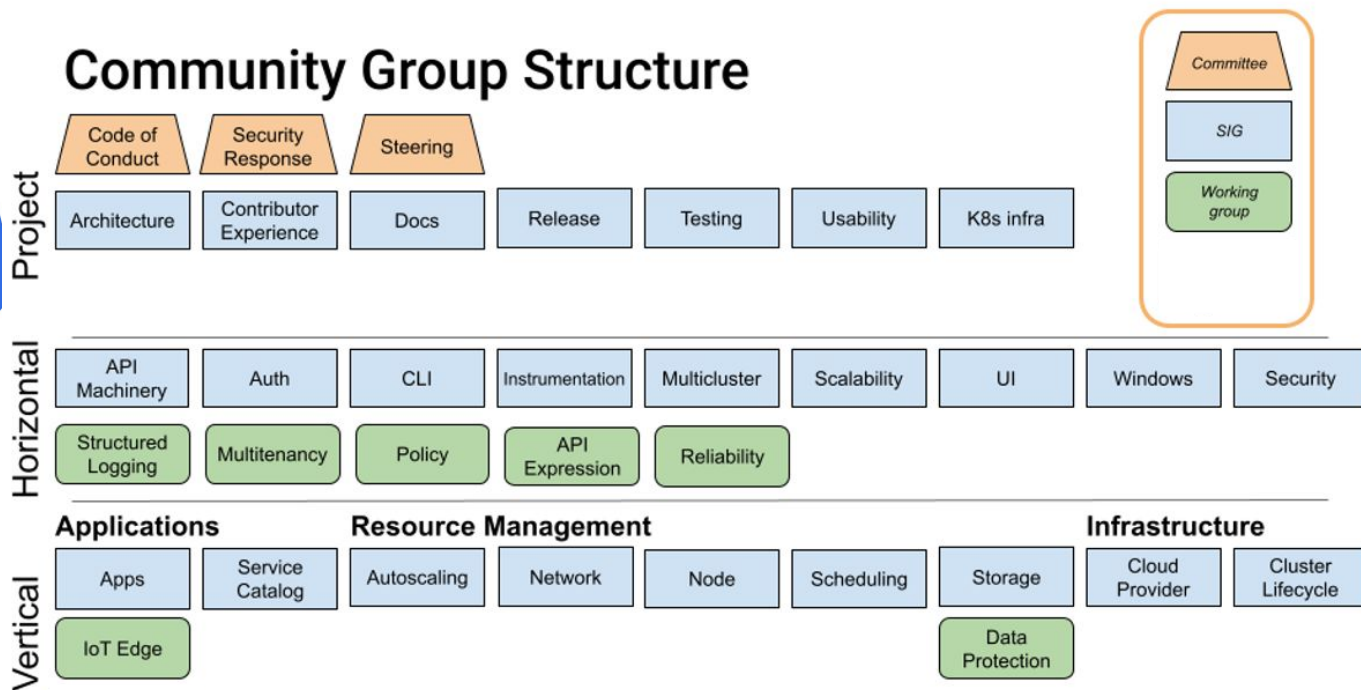
- Collaborating with SIG Security
 - SIG Security Docs Subproject
- Get involved!



- The Kubernetes community is organized into subgroups
 - Special Interest Groups, SIGs
 - Subprojects
 - Working Groups
 - Committees



Community Group Structure





Documentation Kubernetes Blog Training Partners Community Case Studies Versions English

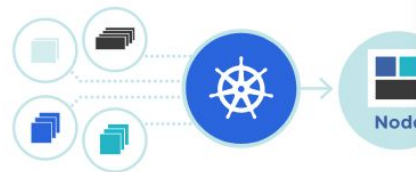
Production-Grade Container Orchestration

Learn Kubernetes Basics

Search this site

Kubernetes, also known as 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.



বাংলা (Bengali)
中文 (Chinese)
Français (French)
Deutsch (German)
हिन्दी (Hindi)
Bahasa Indonesia (Indonesian)
Italiano (Italian)
日本語 (Japanese)
한국어 (Korean)
Polski (Polish)
Português (Portuguese)
Русский (Russian)
Español (Spanish)
Українська (Ukrainian)
Tiếng Việt (Vietnamese)



Planet Scale

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

kubernetes.io is a static site generated from markdown

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



Mermaid.js



kubernetes.io



▶ **Documentation**

▶ Getting started

▶ Concepts

Learn about how Kubernetes works

▶ Tasks

How to do a single task

▶ Tutorials

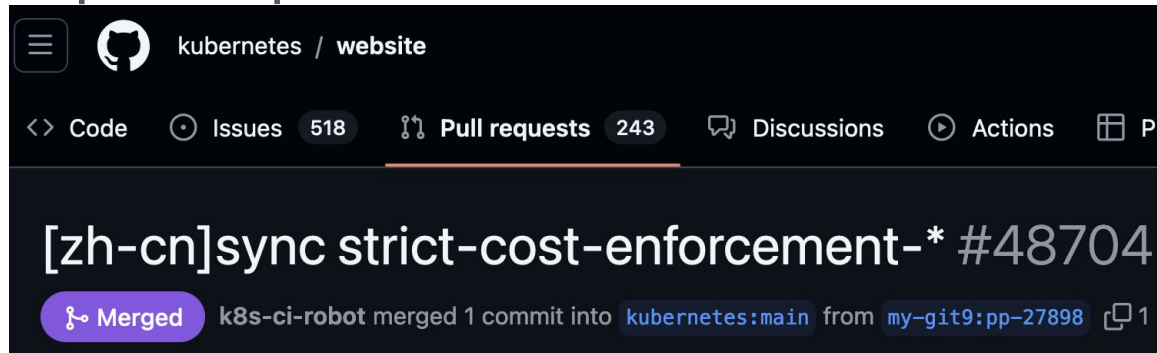
Tutorials on how to accomplish a goal

▶ **Reference**

Glossary, API Reference, API Access Control

▶ Contribute

From a pull request



Updating Kubernetes Documentation

To deploying the
updated
website

The screenshot shows the Netlify dashboard for the 'Kubernetes Docs' project. The left sidebar contains navigation links: Site overview, Site configuration, Deploys (highlighted), Logs, Metrics, Web security, Domain management, Forms, and Blobs. The main content area is titled 'Deploys for kubernetes-io-main-staging' and shows the deployment URL 'https://kubernetes.io'. It indicates the deployment was made from 'github.com/kubernetes/website' using Hugo, with the commit 'main@7ad24c8'. A status message says 'Published main@7ad24c8' and 'Auto publishing is on. Deploys from main are published automatically.' Below this are buttons for 'Deploy settings', 'Notifications', and 'Lock to stop auto publishing'. At the bottom, a search bar shows 'main' and filters are set to 'Any status' and 'Any time frame'. A list of deployments is shown, with the current one highlighted: 'Production: main@7ad24c8 Published'. Below this, it says 'Merge pull request #48704 from my-git9/pp-27898'.

Kubernetes Docs / kubernetes.io

Search Netlify...

Site overview

Site configuration

Deploys

Logs

Metrics

Web security

Domain management

Forms

Blobs

Deploys for kubernetes-io-main-staging

<https://kubernetes.io>

Deploys from github.com/kubernetes/website with Hugo.

Published main@7ad24c8

Auto publishing is on. Deploys from main are published automatically.

Deploy settings Notifications

Lock to stop auto publishing

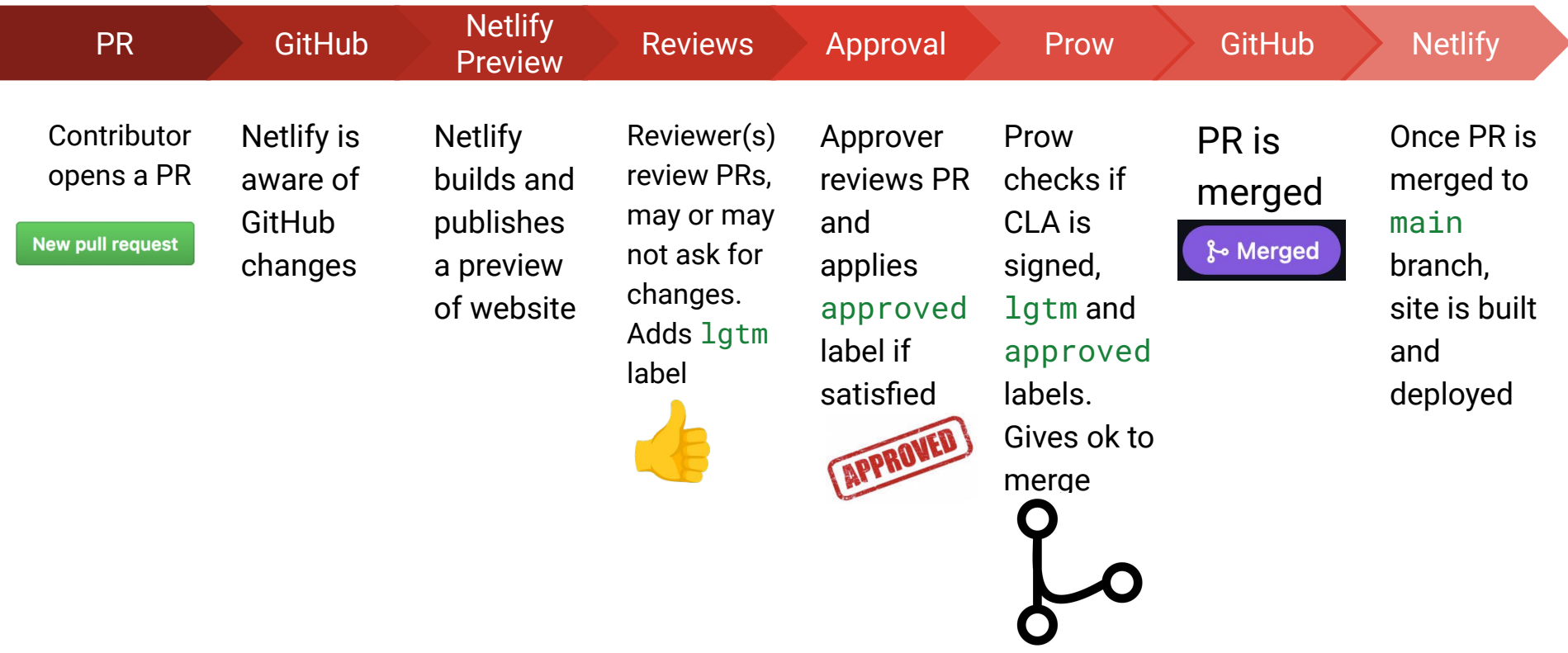
main

Filter: Any status Any time frame

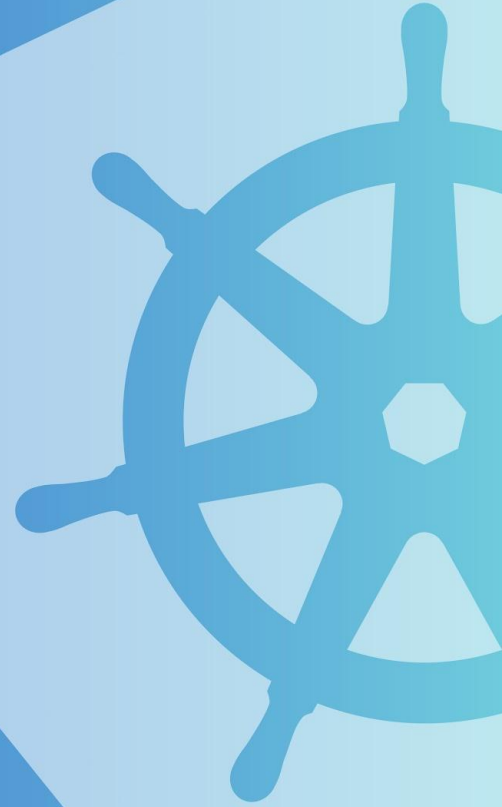
Production: main@7ad24c8 Published

Merge pull request #48704 from my-git9/pp-27898

Continuous Deployment to Update K8s Docs



Collaborating with SIG Release

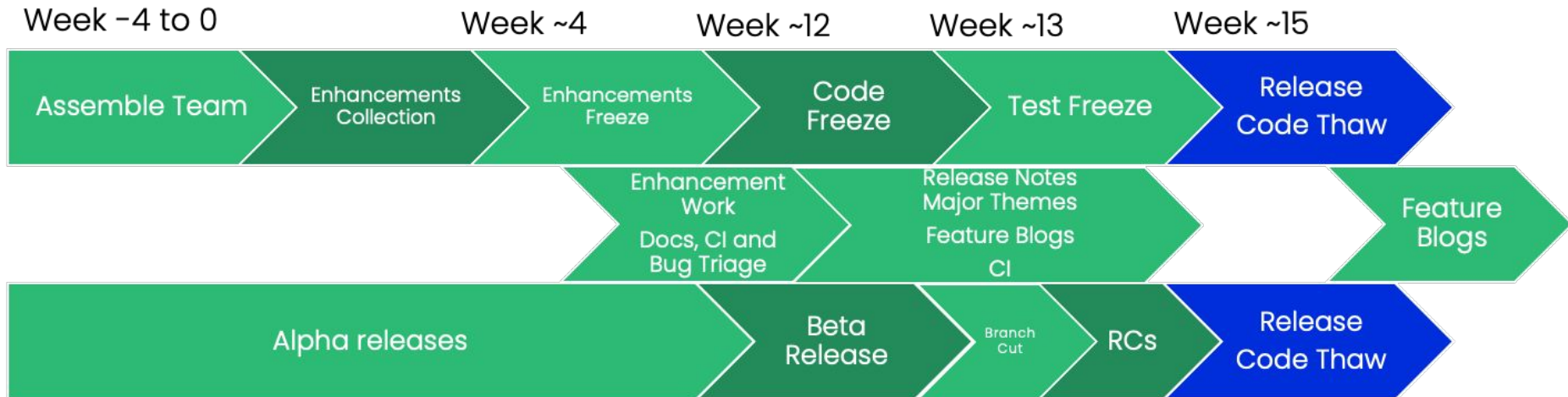


Release Team

- releases Kubernetes
- community members

Release Cycle

- 3 releases a year
- ~15 week cycle



SIG Release - Release Team



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Emeritus
Adviser

Release Lead

Enhancements
Lead

Comms Lead

Release Signal
Lead

Docs Lead

Release Notes
Lead

Release Lead
Shadows

Enhancements
Shadows

Comms
Shadows

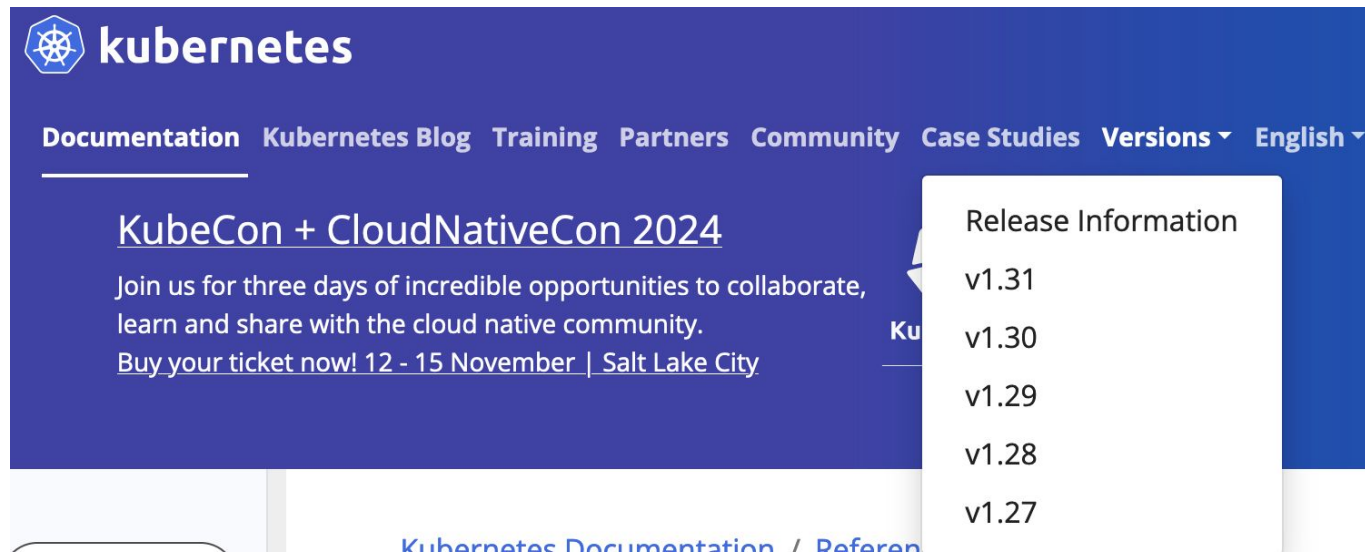
Release Signal
Shadows

Docs
Shadows

Release Notes
Shadows

Release Team - Docs is responsible for:

- Ensuring new and graduating features have appropriate documentation
- Maintaining the development branch



The screenshot shows the Kubernetes website header with a dark blue background. The 'kubernetes' logo is on the left. The navigation bar includes links for Documentation, Kubernetes Blog, Training, Partners, Community, Case Studies, Versions (with a dropdown arrow), and English (with a dropdown arrow). Below the navigation bar, there is a promotional banner for 'KubeCon + CloudNativeCon 2024' with text about collaboration and ticket information. The 'Versions' dropdown menu is open, displaying a list of version numbers: v1.31, v1.30, v1.29, v1.28, and v1.27. The footer of the page is partially visible, showing 'Kubernetes Documentation / Referen'.

kubernetes

[Documentation](#) [Kubernetes Blog](#) [Training](#) [Partners](#) [Community](#) [Case Studies](#) [Versions ▾](#) [English ▾](#)

KubeCon + CloudNativeCon 2024
Join us for three days of incredible opportunities to collaborate,
learn and share with the cloud native community.
[Buy your ticket now! 12 - 15 November | Salt Lake City](#)

Release Information

- v1.31
- v1.30
- v1.29
- v1.28
- v1.27

Kubernetes Documentation / Referen

[Documentation](#)[Kubernetes Blog](#)[Training](#)[Partners](#)[Community](#)[Case Studies](#)[Versions ▾](#)[English ▾](#)[► Documentation](#)[► Getting started](#)[► Concepts](#)[► Tasks](#)[► Tutorials](#)[▼ Reference](#)[Glossary](#)[► API Overview](#)[► API Access Control](#)[► Well-Known Labels,
Annotations and
Taints](#)[▼ Kubernetes API](#)[▼ Workload
Resources](#)[Pod](#)

Pod

Pod is a collection of containers that can run on a host.

```
apiVersion: v1
```

```
import "k8s.io/api/core/v1"
```

Pod

Pod is a collection of containers that can run on a host. This resource is created by clients and scheduled onto hosts.

- **apiVersion:** v1
- **kind:** Pod
- **metadata** ([ObjectMeta](#))

Standard object's metadata. More info:

<https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata>

[Pod](#)[PodSpec](#)[Containers](#)[Volumes](#)[Scheduling](#)[Lifecycle](#)[Hostname and Name resolution](#)[Hosts namespaces](#)[Service account](#)[Security context](#)[Alpha level](#)[Deprecated](#)[Container](#)[Image](#)[Entrypoint](#)[Ports](#)[Environment variables](#)[Volumes](#)[Resources](#)[Lifecycle](#)[Security Context](#)

Release Team - Comms is responsible for:

- Curating the official Release blog, and all feature blogs.
- Coordinating release-related webinars, interviews, and press releases

[Kubernetes Blog](#) [Training](#) [Partners](#) [Community](#) [Case Studies](#) [Versions ▾](#)

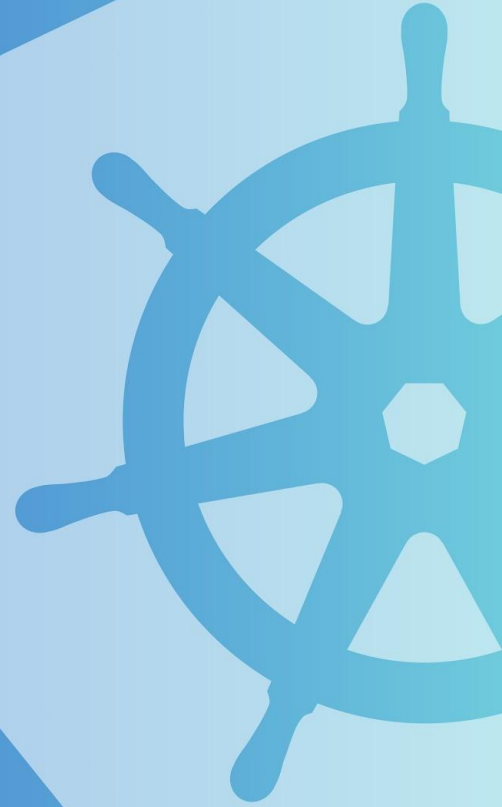
Kubernetes v1.31: Elli

By [Kubernetes v1.31 Release Team](#) | Tuesday, August 13, 2024

Editors: Matteo Bianchi, Yigit Demirbas, Abigail McCarthy, Edith Puclla, Rashan Smith

Announcing the release of Kubernetes v1.31: Elli!

Collaborating with SIG Security



What is SIG-Security-docs?

- Collaborate and create/improve existing security content for Kubernetes documentation.
- Keep the documentation and security examples up to date.
- Create security awareness through documentation.

If interested please reach out to us in the [slack channel](#).

Contributions so far

- Sections of [Hardening guide](#)
- Security checklist
- Blogs

Kubernetes Documentation / Concepts / Security
/ Role Based Access Control Good Practices

Role Based Access Control Good Practices

Kubernetes RBAC is a key security control to ensure that cluster users and workloads have only the access to resources required to execute their roles. It is important to ensure that, when designing permissions for cluster users, the cluster administrator understands the areas where privilege escalation could occur, to reduce the risk of excessive access leading to security incidents.

The good practices laid out in the general [RBAC documentation](#)

Kubernetes Hardening Guide #30



raesene opened this issue on Apr 12, 2021 · 38 comments

Security hardening guide for scheduler configuration #45080



AnshumanTripathi wants to merge 1 commit into [kubernetes:main](#) from [AnshumanTripathi:anshuman/scheduler_hardening_guide](#)

Kubernetes Documentation / Concepts / Security / Security Checklist

Security Checklist

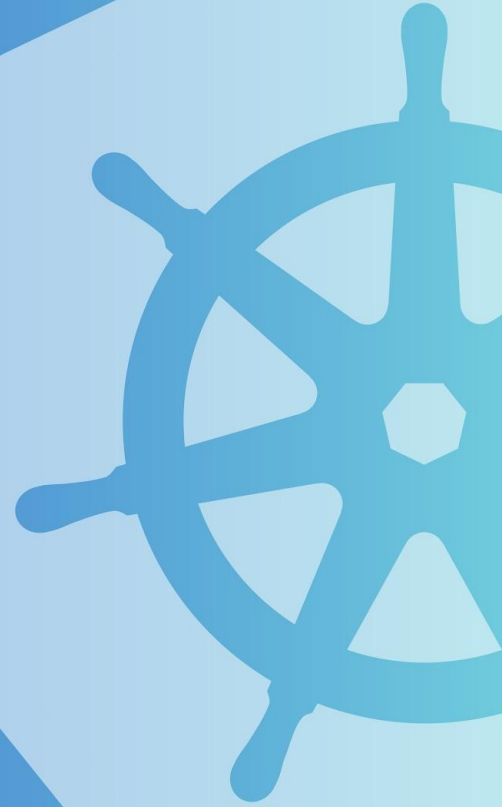
This checklist aims at providing a basic list of guidance with links to more comprehensive documentation on each topic. It does not claim to be exhaustive and is meant to evolve.

On how to read and use this document:

- The order of topics does not reflect an order of priority.
- Some checklist items are detailed in the paragraph below the list of each section.

- Issue tracking
 - Big efforts and projects are tracked in
 - <https://github.com/kubernetes/sig-security>
 - <https://github.com/kubernetes/website>
- PR reviews
- Content organization

Get Involved!



- Join the [Kubernetes Slack](#)
 - [#sig-docs](#), [#sig-docs-blog](#), [#sig-docs-localizations](#) channels
- Join the [mailing list via Google Groups](#)
 - Calendar invites are available when you join the mailing list
- Attend SIG Docs Meetings
 - biweekly on Tuesdays at 17:30 UTC
 - monthly APAC friendly meeting on Wednesday, after the fourth Tuesday, every month at 5:30 UTC
 - monthly Localization on the first Monday of the month at 15:00 UTC
- Attend the New Contributors Meet & Greet
- Anyone can create an issue
- Anyone can make a pull request
- Anyone can review pull requests, informal lgtn's are welcome
- Ask questions!



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