

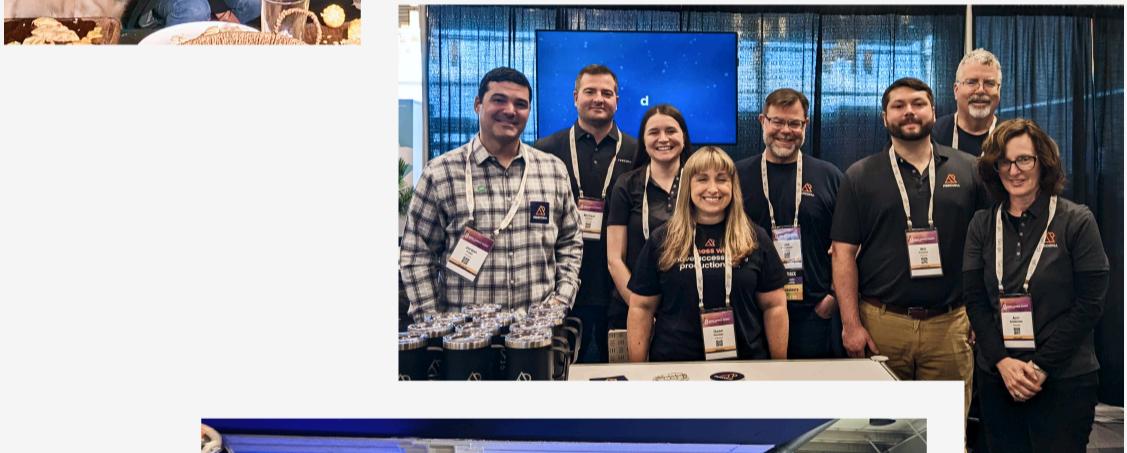
RE-THINKING PRODUCT ADOPTION THROUGH DOCUMENTATION DESIGN

By Pedro MC Fernandes at  PERCONA

PEDRO

- A father and a lover
- Living in greater Lisbon, Portugal
- Hands-on creator inspired by arts
- Experience with 0-1 projects +
eCommerce + operations
- All-round designer
- Product designer at Percona
- Generalist contributor in FOSS





- Freedom to choose ethos
- Provider of open-source database services, support, and software

Known for

- Open-source, drop-in replacements for **PostgreSQL/MySQL/MongoDB**
- **Percona Toolkit** command-line tools
- **PMM** database monitoring tools
- Cloud-native database **Operators**



RE-THINKING PRODUCT ADOPTION THROUGH DOCUMENTATION DESIGN

Why would we?

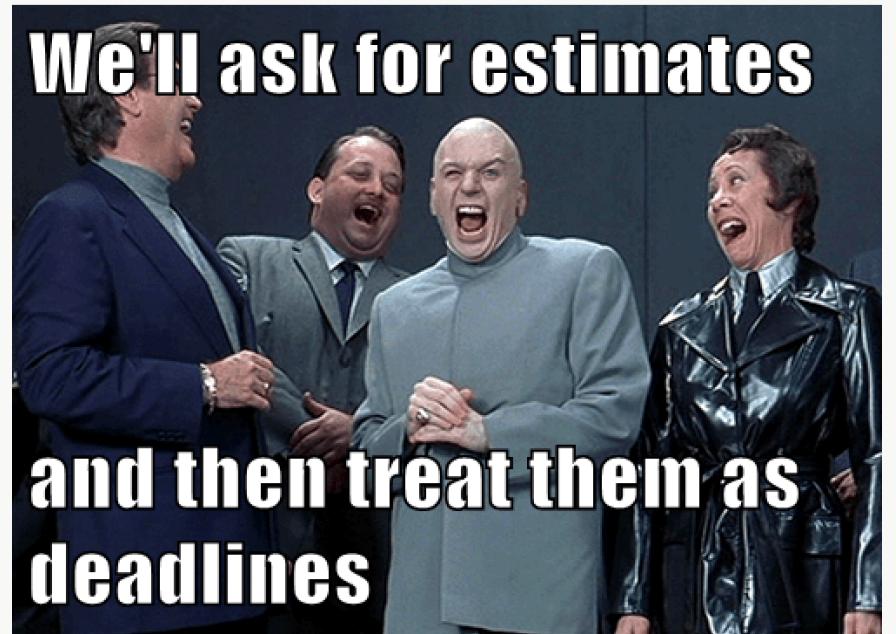
MOTIVATIONS

- Databases for everyone
- Promote independence
- More and better contributions
- Optimization of Support
- Don't break the bank



**DATABASES = HARD
SOFTWARE = HARD
DESIGN = HARD**

- Technical, complex, costly
- Error 404: Design culture not found
- Rapid software dev. ≠ Rapid UX dev.



While we develop growth strategies in-product,
what else could we do **now**?

Imagine assembling this...

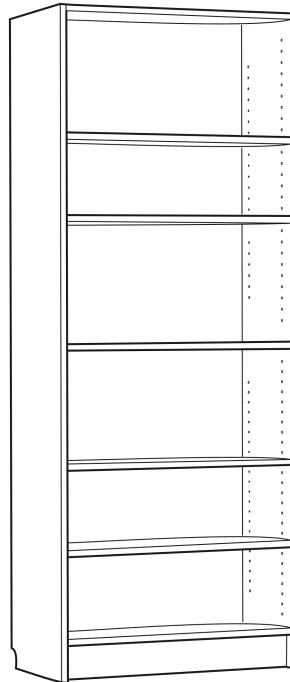


By only guessing



With documentation, we
can promote the adoption
and good use of products.

BILLY



IKEA
Design and Quality
IKEA of Sweden

With databases, even if you're an expert,
you must keep the documentation tab open.

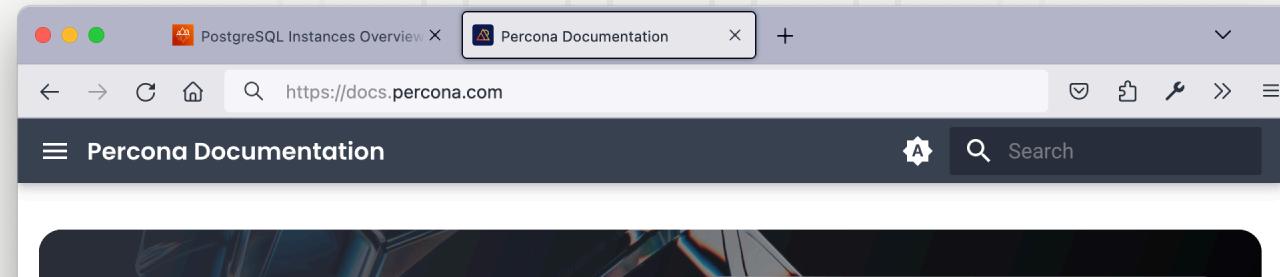
INSTALL

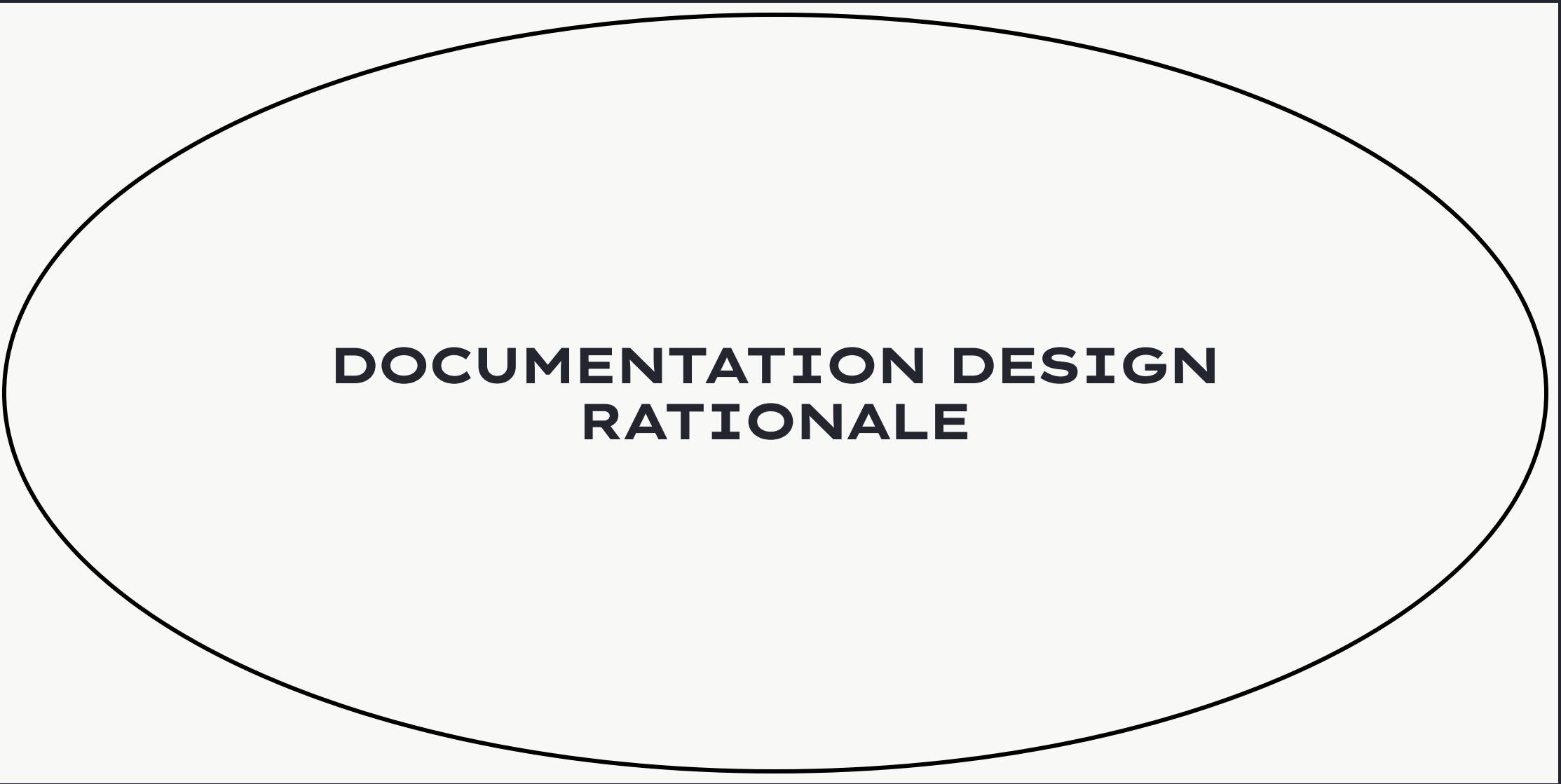


DEVELOP



UPKEEP





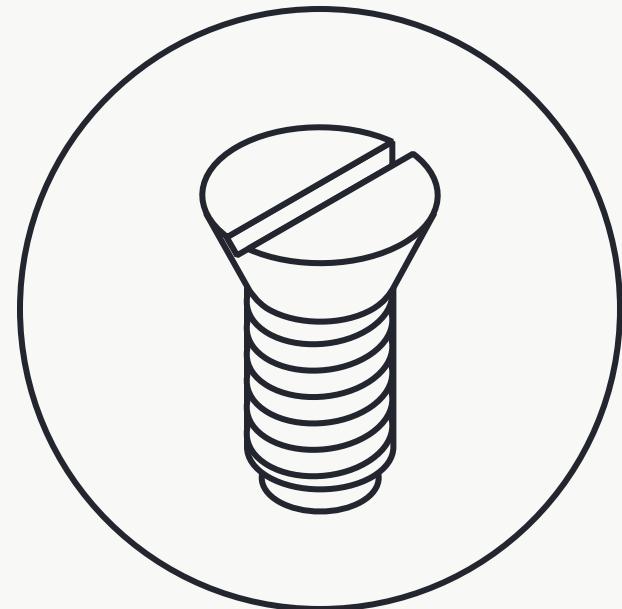
DOCUMENTATION DESIGN RATIONALE

DEFINE A STRATEGY

Who's reading our documentation?

How can it help them and us achieve our goals?

How do we know if it is helping?



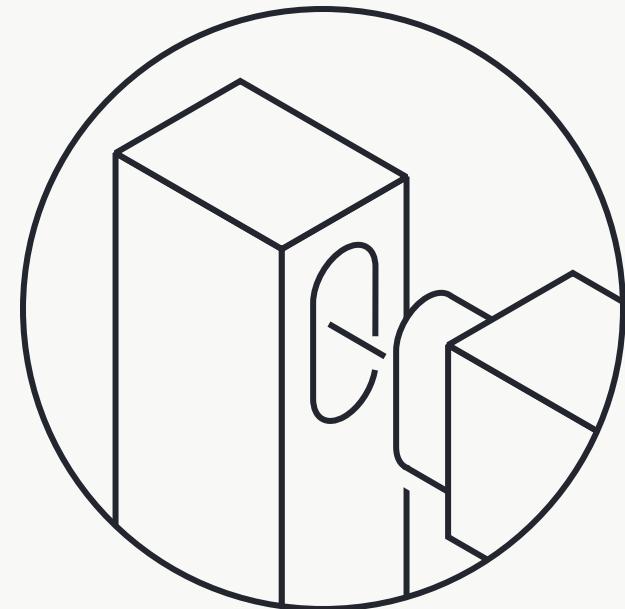
We want documentation to reach out to more **developers** interested in open-source databases for their applications so that adoption increases through more **installations**, proper **retention**, and evident **ease of use**.

ESTABLISH CO-OWNERSHIP

Who could help?

Where's the knowledge?

Who could share responsibilities?

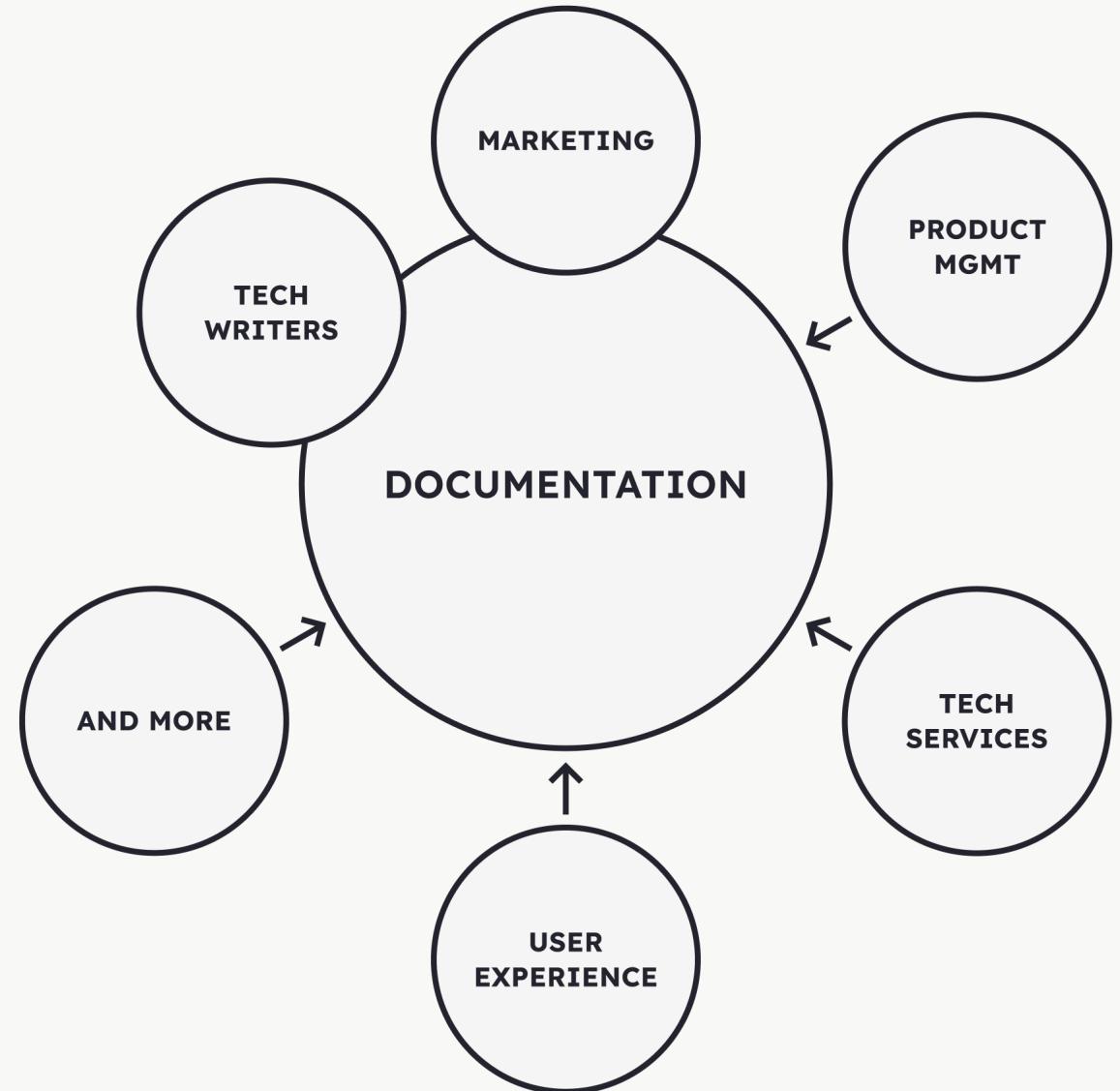


Kept

- Creation of content • Management
- Data analysis

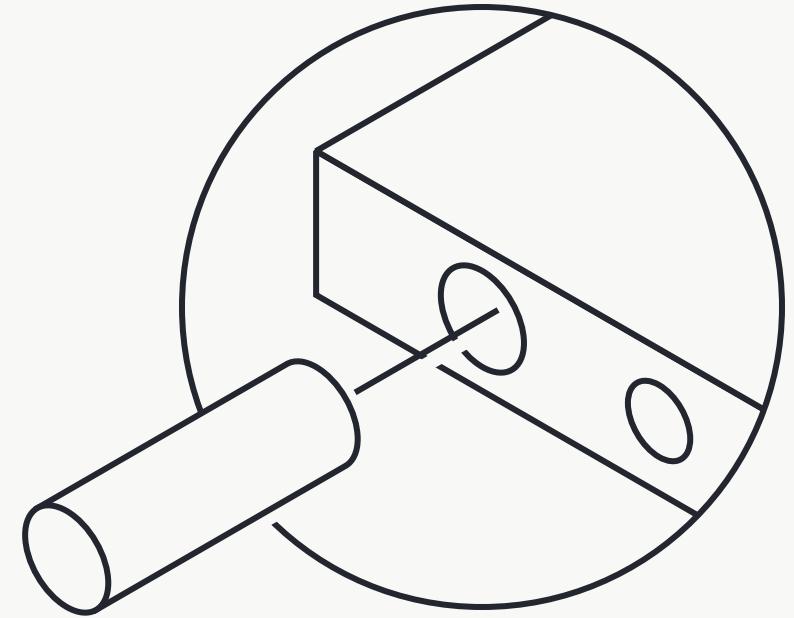
Added

- Speed • Visibility • Openness
- User's POV • Horizontal communication
- New methods • New tools



BOOST CLARITY

Is the content accessible to people?
Does it provide intuitive access to their needs?
Are there untapped opportunities?



Version 0.6.0 of the [Percona Operator for MySQL](#) is a **tech preview release** and it is **not recommended for production environments**. As of today, we recommend using [Percona Operator for MySQL based on Percona XtraDB Cluster](#), which is production-ready and contains everything you need to quickly and consistently deploy and scale MySQL clusters in a Kubernetes-based environment, on-premises or in the cloud.



Percona Operator for MySQL
based on Percona Server for
MySQL

Welcome



Features



Quickstart guides



Installation



Configuration and
Management



Backup and restore



[Upgrade Database and
Operator](#)

Application and system
users

Anti-affinity and tolerations

Labels and annotations

Changing MySQL Options

Load Balancing with HAProxy

MySQL Router Configuration

Exposing the cluster

Transport Encryption (TLS)

Upgrade Database and Operator



Starting from the version 0.6.0, Percona Operator for MySQL based on Percona Server for MySQL fully supports upgrades to newer versions. The upgradable components of the cluster are the following ones:

- the Operator;
- [Custom Resource Definition \(CRD\)](#),
- Database Management System (Percona Server for MySQL).

The list of recommended upgrade scenarios includes two variants:

- Upgrade to the new versions of the Operator *and* Percona Server for MySQL,
- Minor Percona Server for MySQL version upgrade *without* the Operator upgrade.

Upgrading the Operator and CRD



Note

The Operator supports **last 3 versions of the CRD** including the newest one, so it is technically possible to skip upgrading the CRD and just upgrade the Operator. If the CRD version is one of these, you will be able to continue using the old CRD and even carry on Percona Server for MySQL minor version upgrades with it. But the recommended way is to update the Operator *and* CRD.

Table of contents

Upgrading the Operator and
CRD

Manual upgrade

Upgrade via helm

Upgrading Percona Server for
MySQL

Manual upgrade

Automated upgrade

More on upgrade strategies



Tweaked

- Applied readable fonts
- Added spacing
- Increased chromatic contrast
- Increased reading contrast (headings Vs. running text blocks)
- On-brand re-styling

BEFORE

The screenshot shows the 'Percona Operator for MySQL 0.6.0 (2023-09-05)' documentation page. The header includes the Percona logo, title, a search bar, and a navigation bar with links like 'About', 'Installation', 'How to', 'Backup and Restore', 'Security', 'Storage Engines', 'Troubleshoot', 'Reference', and 'Installing PMM'. The main content area has a dark blue background with white text. It features a sidebar with 'Features' and 'Release Notes' sections, and the main content includes 'Highlights' (with a list of changes), 'New features' (listing K8SPS-283 and K8SPS-160), 'Improvements' (listing K8SPS-162, K8SPS-163, K8SPS-205, K8SPS-270, and K8SPS-280), and a detailed 'Release notes index' section.

AFTER

The screenshot shows the 'Latest Release 8.0.33-25' documentation page. The header includes the Percona logo, title, a search bar, and a navigation bar with links like 'About', 'Installation', 'How to', 'Backup and Restore', 'Security', 'Storage Engines', 'Troubleshoot', 'Reference', and 'Installing PMM'. The main content area has a light blue background with dark blue text. It features a sidebar with 'About', 'Features', 'Release Notes', and 'Latest Release 8.0.33-25' sections, and the main content includes 'New features' (listing PS-8188), 'Bug fixes' (listing PS-8647, PS-8683, PS-8713, PS-8719, PS-8747), and 'Useful links' (linking to the GitHub location). A large black arrow points from the 'BEFORE' screenshot to the 'AFTER' screenshot.

Added

- Guidelines and resources to place icons, buttons, dividers, and tabs
- Guidelines to flag critical bits of content and decision-making points

BEFORE

The screenshot shows a documentation page for the Percona Operator for MySQL. The header includes the title 'Percona Operator for MySQL based on Percona Server for MySQL' and a search bar. The main content is titled 'Install Percona Server for MySQL on Google Kubernetes Engine (GKE)'. It contains sections for 'Prerequisites', 'System Requirements' (specifically 'Install on Google Kubernetes Engine (GKE)'), and 'Create and configure the GKE cluster'. A note at the bottom indicates that commands can be run in 'Google Cloud shell' or 'local shell'. A 'Table of contents' sidebar on the right lists topics like 'Prerequisites', 'Create and configure the GKE cluster', and 'Troubleshooting'. A large black arrow points from this page to the 'AFTER' screenshot.

AFTER

The screenshot shows a documentation page for Percona Server for MySQL. The header includes the title 'Percona Server for MySQL' and a search bar. The main content is titled 'Quickstart Guides'. It features a 'Quickstart Guides' section with links for 'Install via apt', 'Install via yum', 'Kubernetes', 'Docker', 'Manual Download', and 'Post-installation tips'. Below this, there are sections for 'Install via apt' and 'Install via yum'. A 'Table of contents' sidebar on the right lists 'Prerequisites', 'Create and configure the GKE cluster', and 'Troubleshooting'. At the bottom, there is a note about updating repositories and installing curl, followed by a command-line example: '\$ sudo apt update\n\$ sudo apt install curl'. A note at the very bottom states: 'Once everything is updated and ready, you can follow the below tasks to install:'.

Extended

- New custom components
- Use of more out-of-the-box components

The screenshot shows a documentation page for "Uninstall". The top navigation bar includes links for About, Installation (which is underlined), How to, Backup and Restore, Security, Storage Engines, Troubleshoot, Reference, and Installing PMM. A search bar and a user profile icon are also present.

The main content area has a sidebar on the left with links: Installation, Quickstart Guides, Install via apt, Installation guide, Run/Stop, apt Pinning, **Uninstall**, Install via yum, Kubernetes, Docker, Manual Download, Post-installation tips, Upgrade, and Downgrade. Two arrows point from the "Uninstall" link in the sidebar to the "Get expert help" section at the bottom right.

The "Uninstall" section contains two bullet points:

- Either remove the packages.
\$ sudo apt remove percona-server\
- Or purge the packages and delete data files.
\$ sudo apt purge percona-server\

A warning message states: "This will leave the data files (databases, tables, logs, configuration, etc.) behind. If you don't need them, you must remove them manually." and "Warning: This command removes all the packages and deletes all the data files (databases, tables, logs, and so on.)."

The "Get expert help" section at the bottom right contains the following text:
If you need assistance, visit the community forum for comprehensive and free database knowledge, or contact our Percona Database Experts for professional support and services.
[Community Forum](#) [Get a Percona Expert](#)

At the very bottom, there's a "Was this page helpful?" section with smiley and frowny face icons.

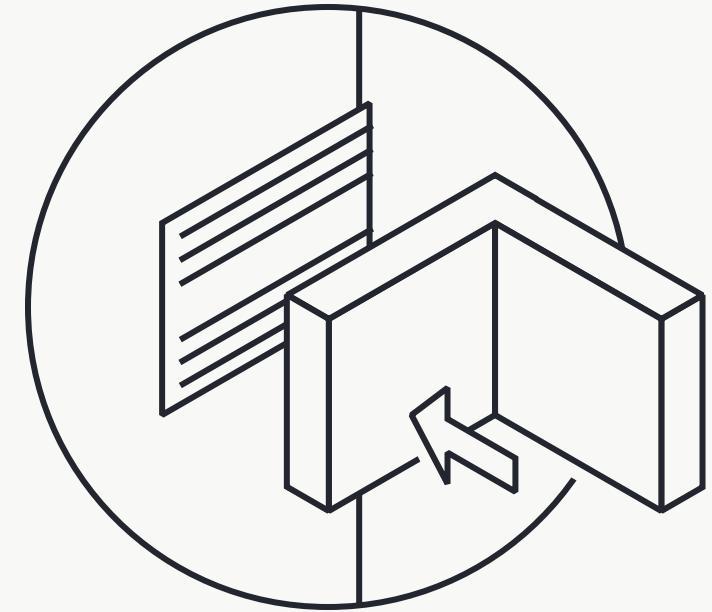
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Made with [Material for MkDocs](#)

IMPROVE THE USER EXPERIENCE

What can we do for people?

How might we anticipate their needs?

How can we make them succeed?



Invested in

- Experimenting
- Creating guidelines
- Forming quickstart guides
- Visual prominence for what matters the most

The screenshot shows a navigation bar with links for About, Installation (which is selected), How to, Backup and Restore, Security, Storage Engines, Troubleshoot, Reference, and Installing PMM. Below the navigation is a search bar and a user profile icon.

The main content area has a title "Installation guide". On the left is a sidebar with links: Installation, Quickstart Guides, Install via apt (expanded to show Installation guide, Run/Stop, apt Pinning, Uninstall, Install via yum, Kubernetes, Docker, Manual Download, Post-installation tips, Upgrade, Downgrade), and a "Table of Contents" link.

The main content area starts with a note about updating apt repositories and installing curl. It then lists five numbered steps:

- 1 The first step is downloading the `percona-release` repository package:

```
$ curl -O https://repo.percona.com/apt/percona-release_latest.generic_all.deb
```
- 2 Install the downloaded package with `apt` as root or with `sudo`, and then refresh the local cache to update the package information:

```
$ sudo apt install gnupg2 lsb-release ./percona-release_latest.generic_all.deb  
$ sudo apt update
```
- 3 Use `percona-release` to set up the repository for the Percona Server for MySQL 8.0 version:

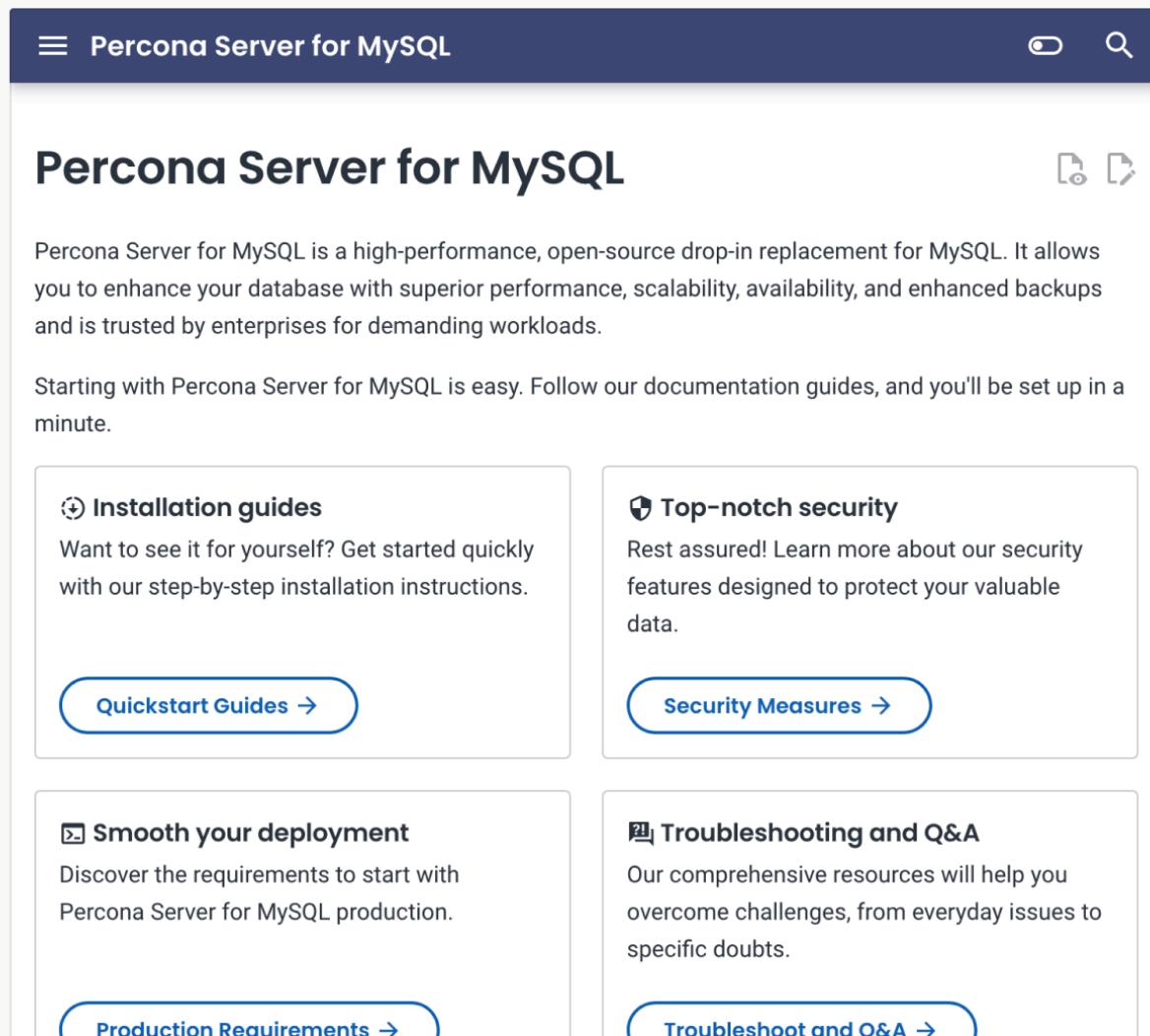
```
$ sudo percona-release setup ps80
```

You can check the repository setup for the Percona original release list in `/etc/apt/sources.list.d/percona-original-release.list`.
- 4 Install the server package with the `percona-release` command:

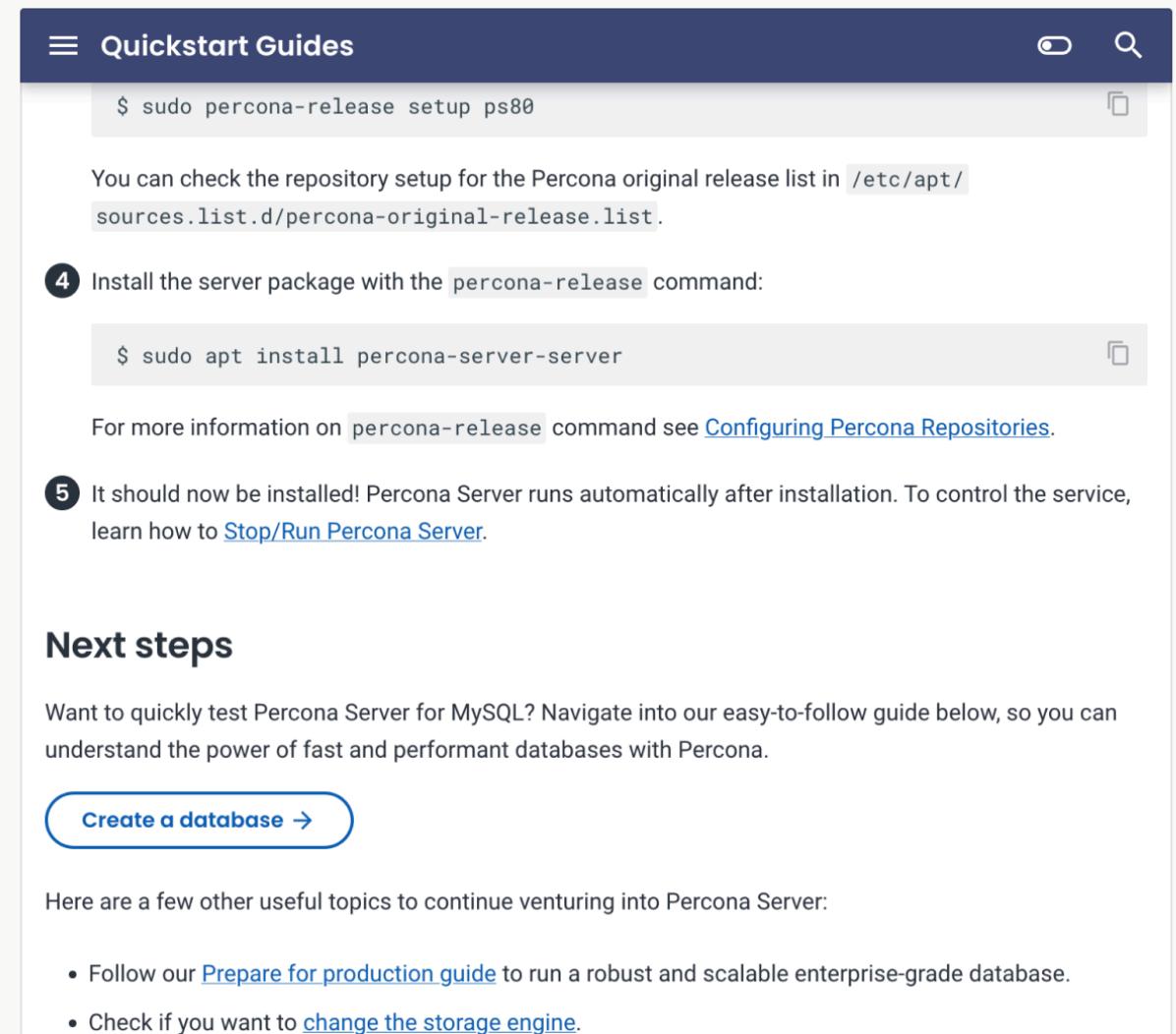
```
$ sudo apt install percona-server-server
```

For more information on `percona-release` command see [Configuring Percona Repositories](#).
- 5 It should now be installed! Percona Server runs automatically after installation. To control the

We crafted journeys and woven them together so we could guide people into **discovering the value** of our software.



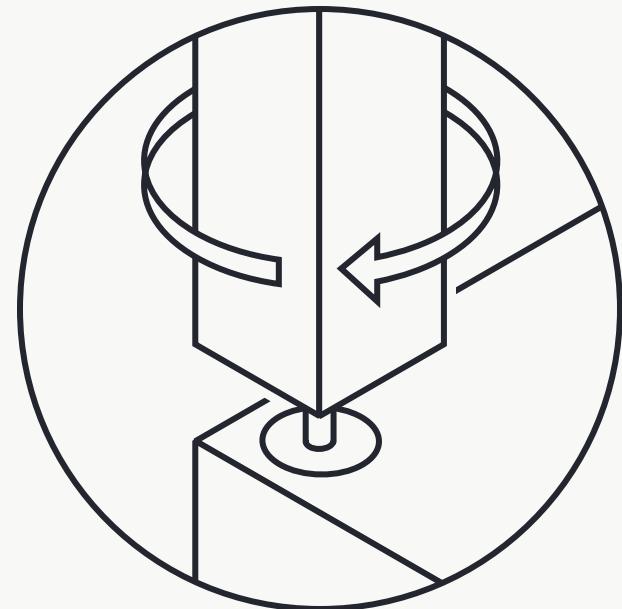
The screenshot shows the official Percona Server for MySQL website. The header reads "Percona Server for MySQL". Below the header, there's a main title "Percona Server for MySQL" with a brief description: "Percona Server for MySQL is a high-performance, open-source drop-in replacement for MySQL. It allows you to enhance your database with superior performance, scalability, availability, and enhanced backups and is trusted by enterprises for demanding workloads." A section titled "Starting with Percona Server for MySQL is easy. Follow our documentation guides, and you'll be set up in a minute." follows. The page features several cards: "Installation guides" (with a "Quickstart Guides →" button), "Top-notch security" (with a "Security Measures →" button), "Smooth your deployment" (with a "Production Requirements →" button), and "Troubleshooting and Q&A" (with a "Troubleshoot and Q&A →" button).

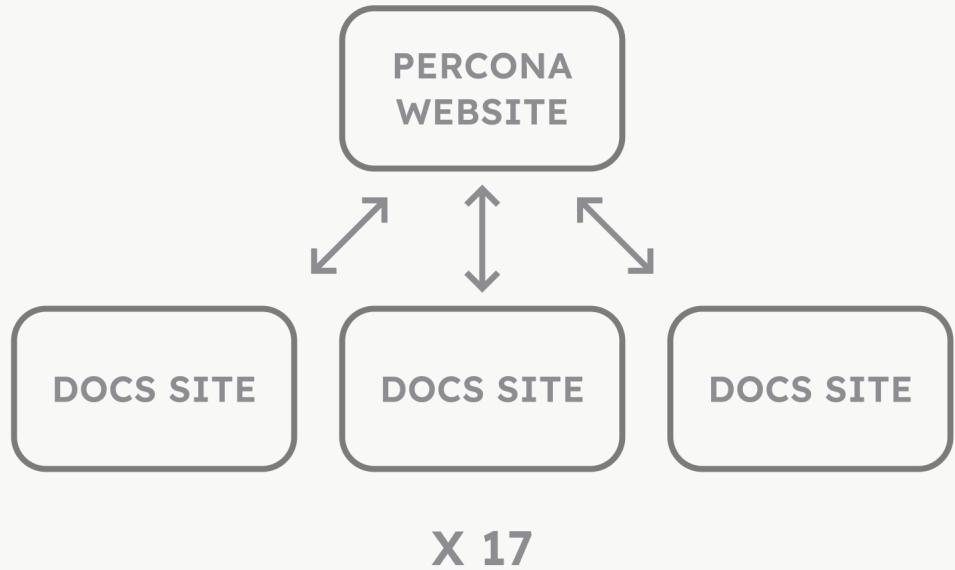


The screenshot shows the "Quickstart Guides" page. The header reads "Quickstart Guides". Below the header, there's a command-line interface (CLI) box containing "\$ sudo percona-release setup ps80". A note below it says: "You can check the repository setup for the Percona original release list in /etc/apt/sources.list.d/percona-original-release.list." An numbered list starts with step 4: "Install the server package with the percona-release command:" followed by the CLI command "\$ sudo apt install percona-server-server". A note below it says: "For more information on percona-release command see [Configuring Percona Repositories](#)". Step 5: "It should now be installed! Percona Server runs automatically after installation. To control the service, learn how to [Stop/Run Percona Server](#)." A "Next steps" section at the bottom has a button "Create a database →". A list of other useful topics follows: "Follow our [Prepare for production guide](#) to run a robust and scalable enterprise-grade database.", "Check if you want to [change the storage engine](#)".

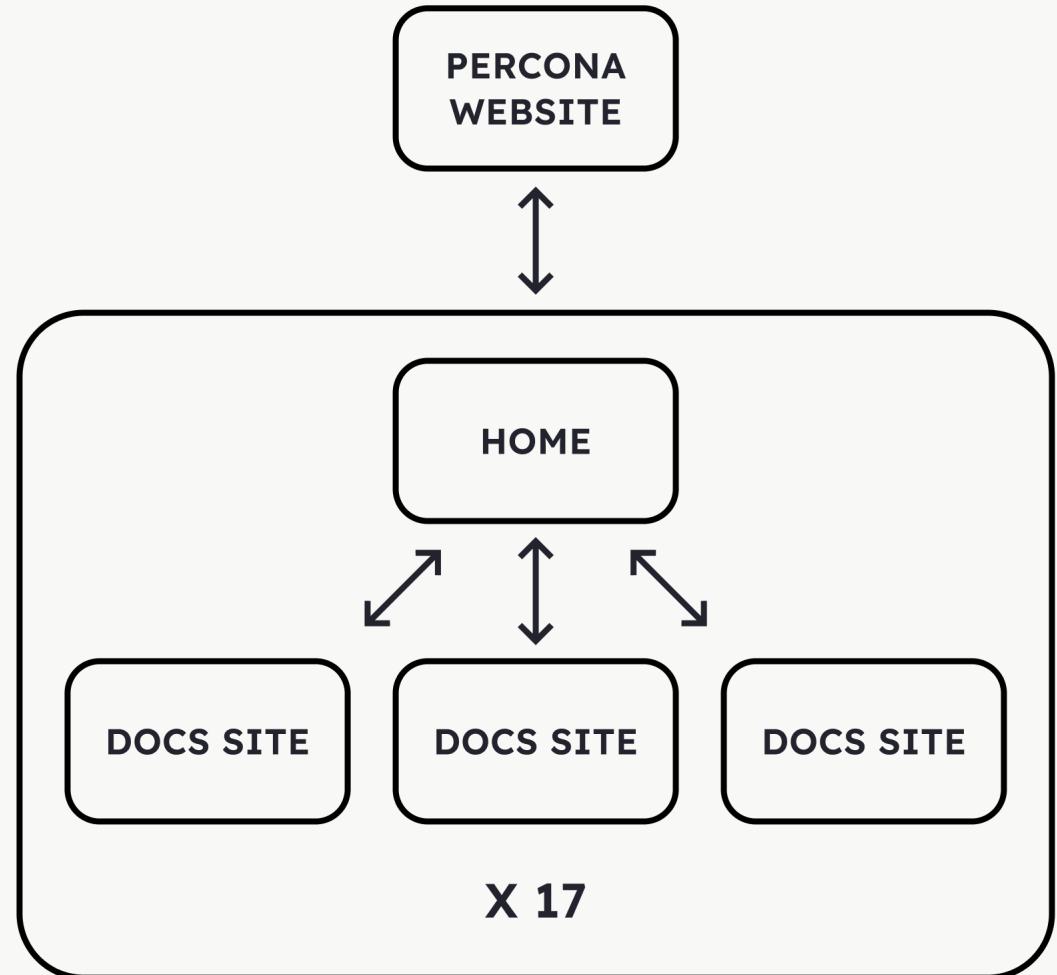
UNIFY THE EXPERIENCE

Imagine using the documentation.
How does it look? How might we improve it?
Does it feel whole and credible?





X 17



X 17

OPEN-SOURCE DATABASES

Learn how to set up Percona's open-source solutions for your database needs. Pick your favorite technology to access our step-by-step guidance and documentation.



Percona for PostgreSQL

All Percona software for PostgreSQL databases documentation.



Percona for MongoDB

All Percona software for MongoDB databases documentation.



Percona for MySQL

All Percona software for MySQL databases documentation.

CLOUD-NATIVE DATABASES

Leverage the power of modern open-source databases on the cloud with Percona solutions for PostgreSQL, MongoDB, and MySQL. Click to start



Percona Everest

Documentation for Percona's private database-as-a-service open-source software.

OVERVIEW

- Defined a strategy for the documentation
- Established the co-ownership
- Made it clearer and accessible
- Improved the user experience
- Unified documentation websites' experience

TO DO

- How users are experiencing
- Review outdated content
- Weed out inconsistencies
- Add practical examples/recipes



THANK YOU!

Re-thinking product adoption through documentation design

By Pedro MC Fernandes at  PERCONA

pedro@pmcf.xyz

freenandes@mastodon.social

Rendered with [Marp](#) and [Lexend](#)