

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?

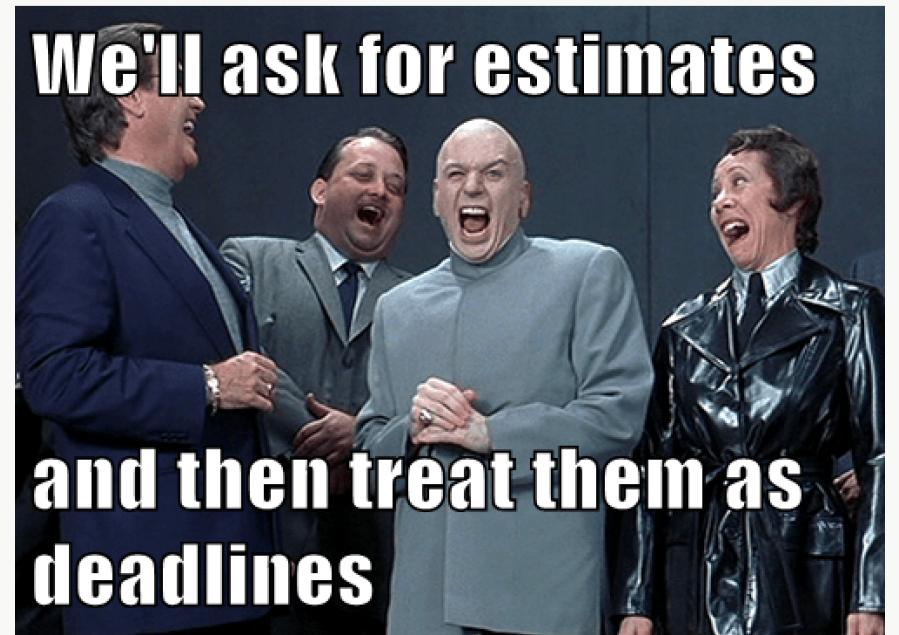
MOTIVATIONS

- 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.



**We'll ask for estimates
and then treat them as
deadlines**

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

Imagine assembling this...

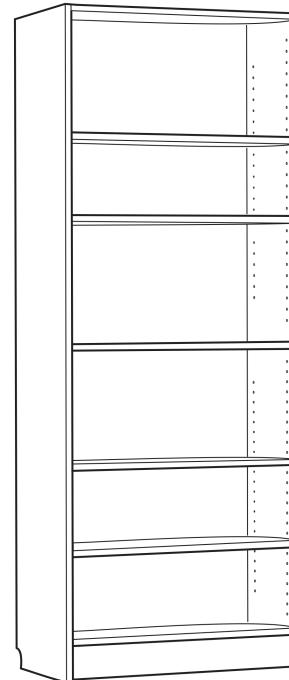


By only guessing



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

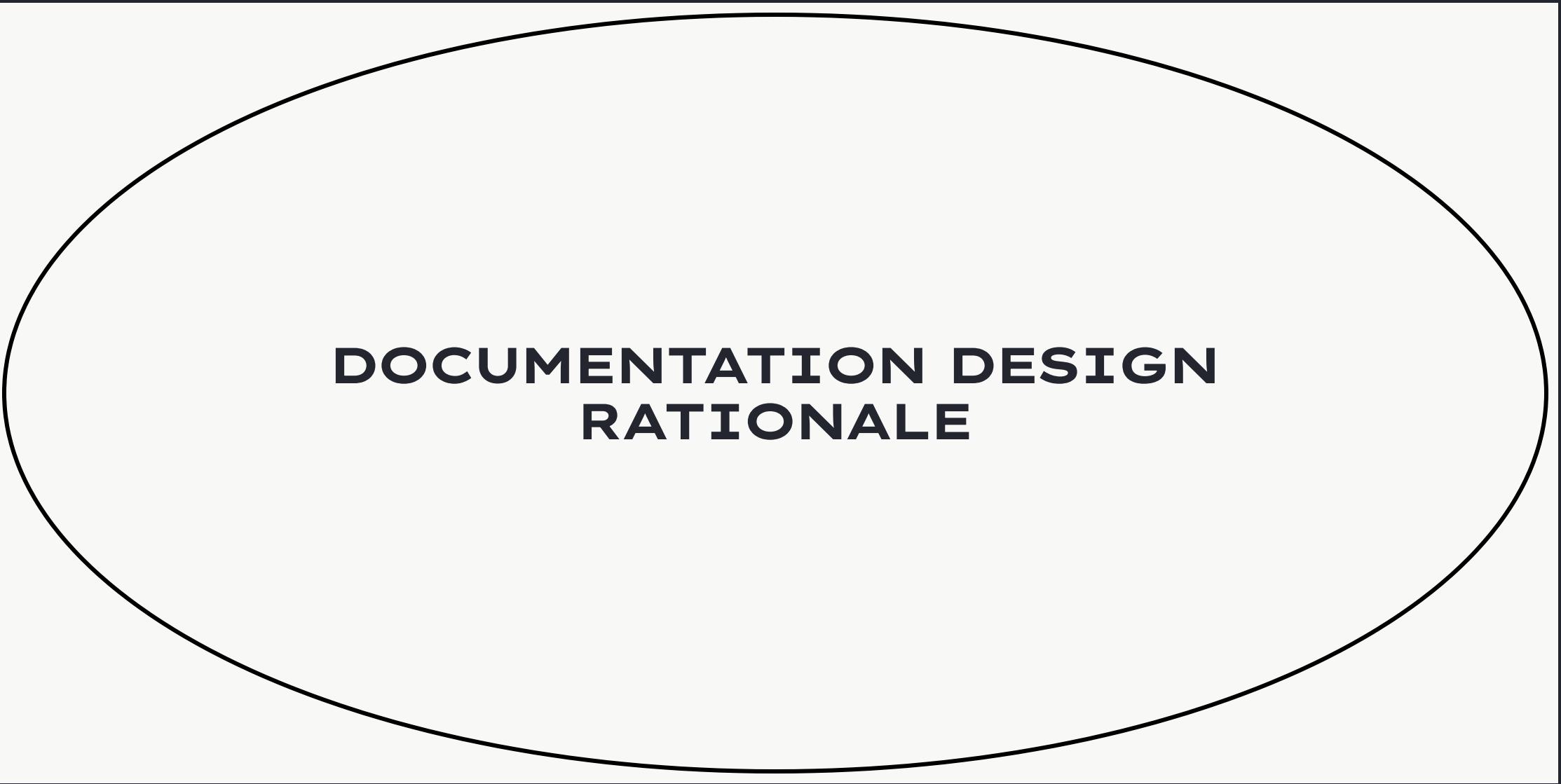


DEVELOP



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?



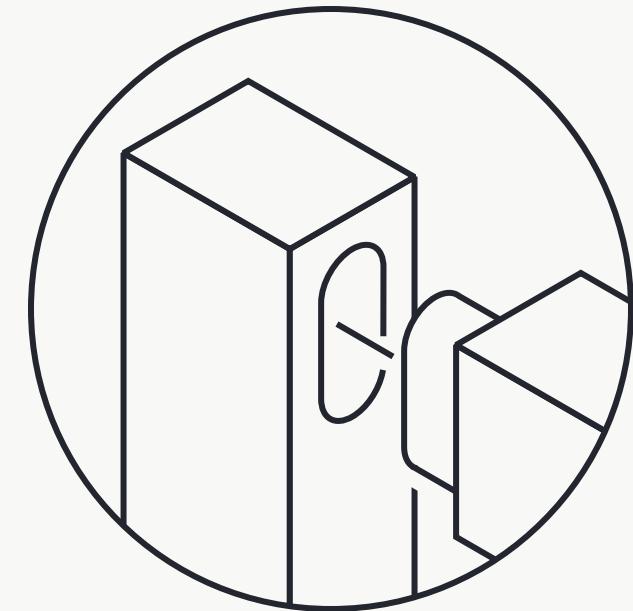
We want documentation to reach out to more **developers** interested in open-source databases for their applications so that adoption increases through more **installations**, proper **retention**, and evident **ease of use**.

ESTABLISH CO-OWNERSHIP

Who could help?

Where's the knowledge?

Who could share responsibilities?

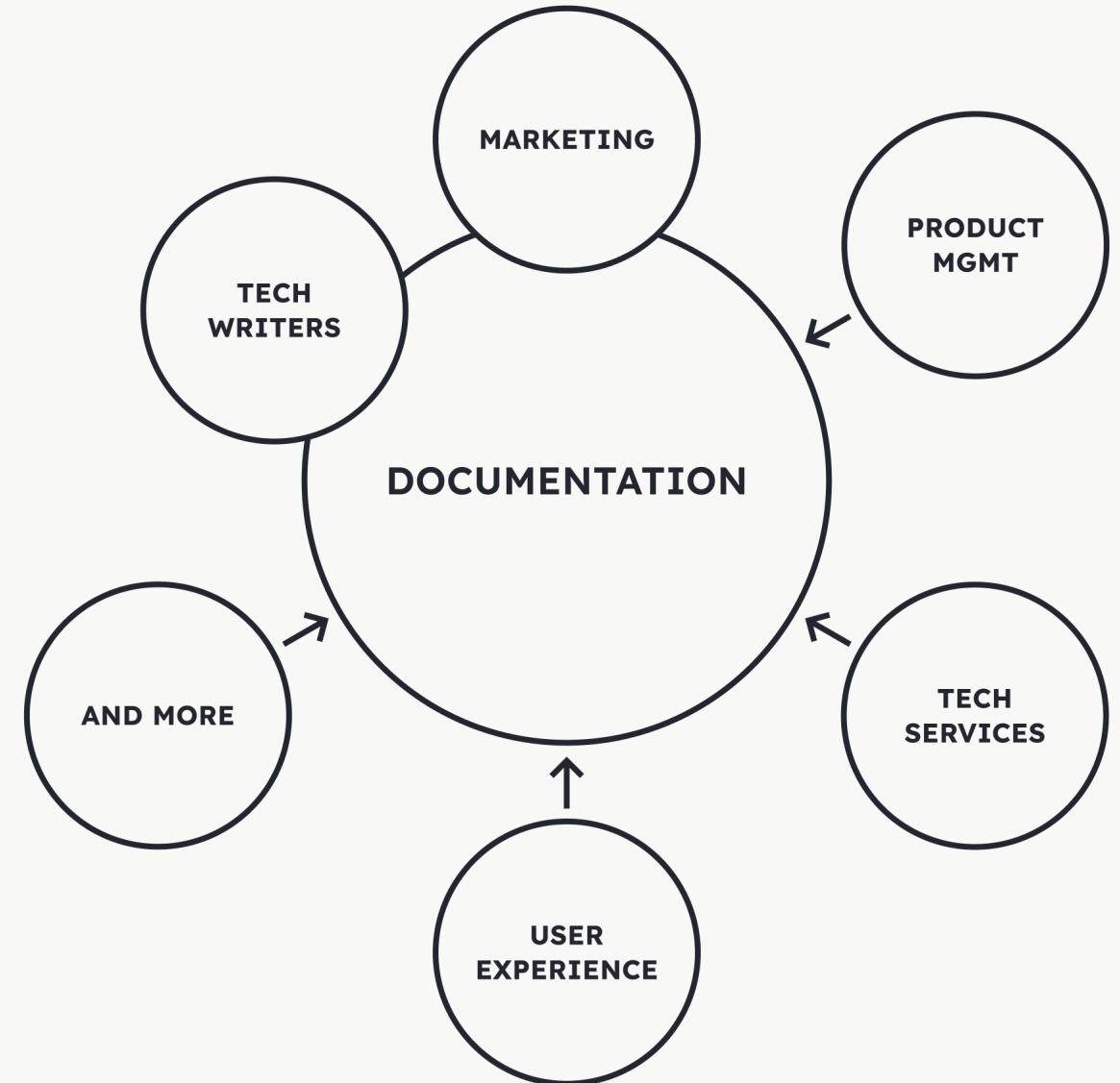


Kept

- Creation of content • Management
- Data analysis

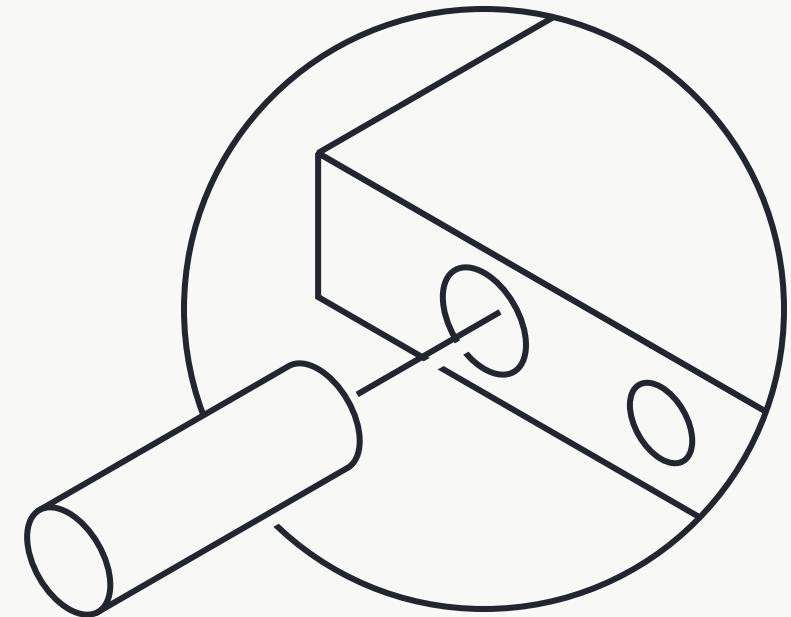
Added

- 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 sections like 'Welcome', 'Features', 'Quickstart guides', 'Installation', 'Configuration and Management', 'Troubleshooting', 'Reference', and 'Release Notes'. The main content includes a 'Highlights' section with bullet points about Smart Upgrade functionality and HAProxy load balancer support, and 'New features' and 'Improvements' sections with lists of specific bug fixes and improvements.

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 sections like 'About', 'Features', 'Release Notes', and 'Latest Release 8.0.33-25'. The main content includes a 'New features' section with a bullet point about the addition of the `clone_exclude_plugins_list` variable, and a 'Bug fixes' section with a list of specific issues fixed, such as PS-8188, PS-8647, and PS-8747. There are also 'Useful links' and 'Get expert help' sections at the bottom.

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 of the 'Create and configure the GKE cluster' section provides a command-line example:

```
$ gcloud container clusters create my-cluster-name --project <project name> --zone us-central1
```

A 'Note' callout box is present at the bottom.

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 note at the bottom of the 'Install via apt' section provides a command-line example:

```
$ sudo apt update  
$ sudo apt install curl
```

The right sidebar includes links for 'Table of contents', 'Install via apt', 'Next steps', and 'Get expert help'.

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\
- This will leave the data files (databases, tables, logs, configuration, etc.) behind. If you don't need them, you must remove them manually.
- Or purge the packages and delete data files.
\$ sudo apt purge percona-server\
- 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.

Page footer: Percona LLC and/or its affiliates © 2023 – [Cookie Consent](#)
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 sidebar with links to Installation, Quickstart Guides, Install via apt, Installation guide (selected), Run/Stop, apt Pinning, Uninstall, Install via yum, Kubernetes, Docker, Manual Download, Post-installation tips, Upgrade, and Downgrade. The Installation guide section contains sub-sections for apt update and curl installation.

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
```
- 4 Install the server package with the `percona-release` command:

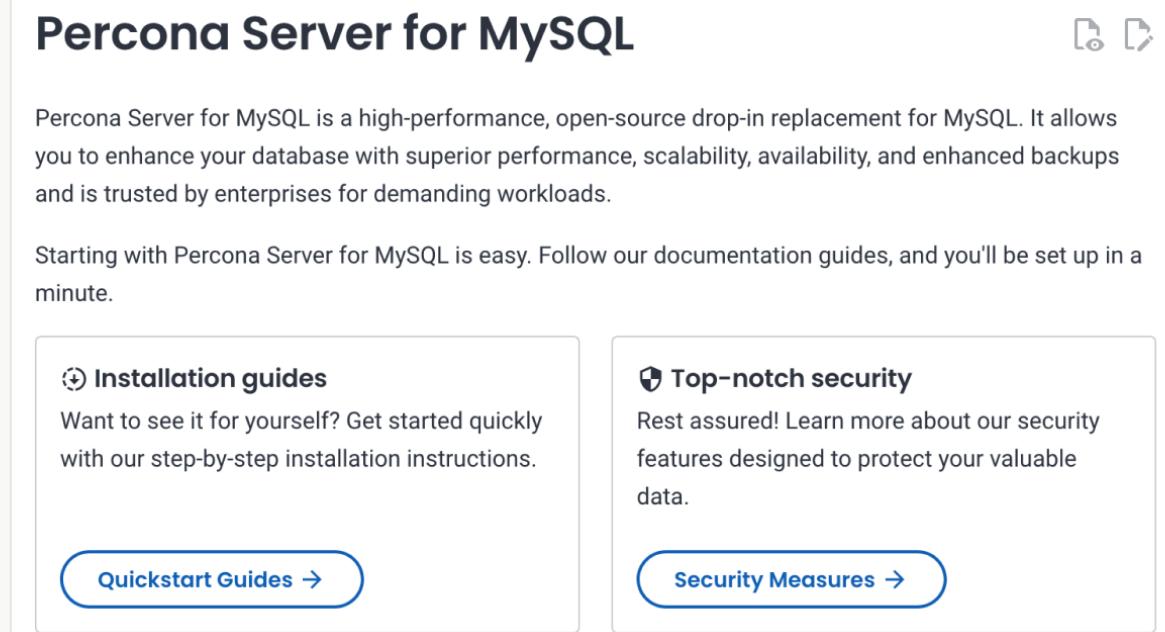
```
$ sudo apt install percona-server-server
```
- 5 It should now be installed! Percona Server runs automatically after installation. To control the

On the right side of the page, there are sections for Table of Contents, Install the latest release, Improve (optional), Install the latest release, and Get experience.

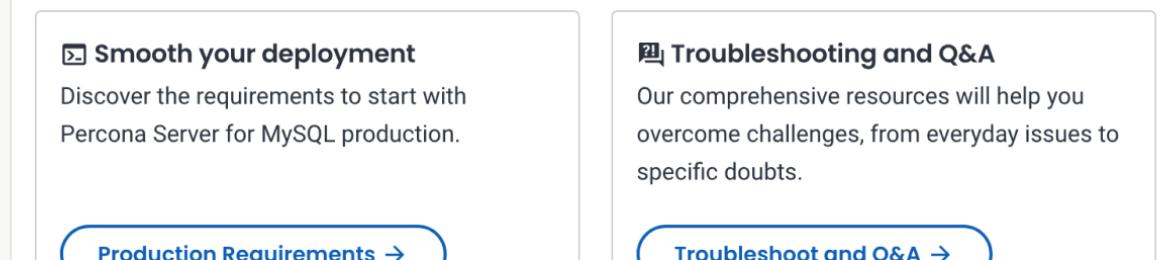
We crafted journeys and woven them together so we could guide people into **discovering the value** of our software.



The screenshot shows the Percona Server for MySQL homepage. The header has a dark blue bar with the text "Percona Server for MySQL" and a search icon. Below the header, the main title "Percona Server for MySQL" is displayed in large, bold, black font. A brief description follows: "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." Below this, a section titled "Starting with Percona Server for MySQL is easy. Follow our documentation guides, and you'll be set up in a minute." is shown. At the bottom, there are two columns of cards: "Installation guides" (with a "Quickstart Guides →" button) and "Top-notch security" (with a "Security Measures →" button).



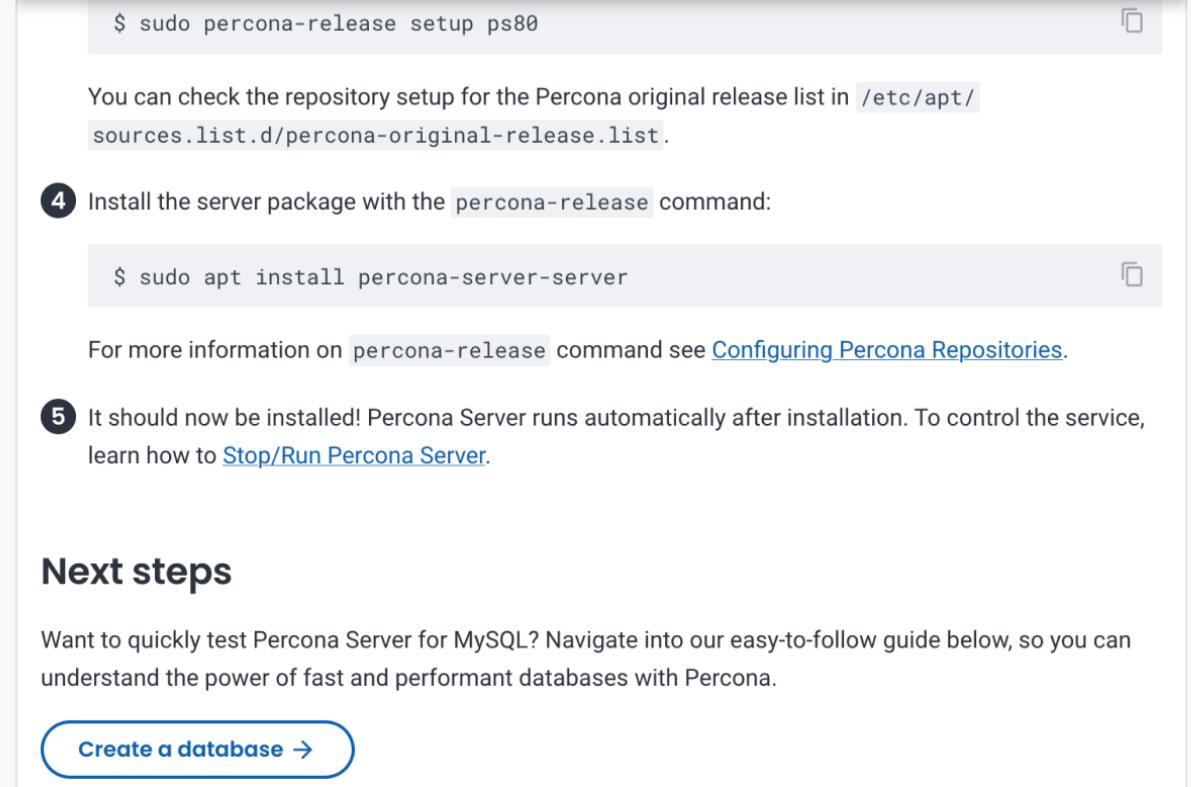
This screenshot is identical to the one above, showing the Percona Server for MySQL homepage. It features the same dark blue header, main title, and descriptive text. The "Installation guides" and "Top-notch security" sections are also present with their respective buttons.



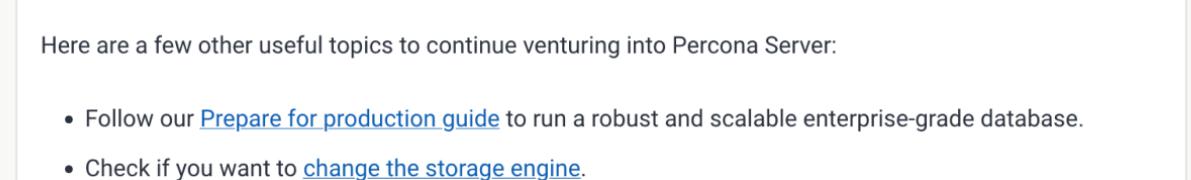
This screenshot is identical to the ones above, showing the Percona Server for MySQL homepage. It includes the dark blue header, main title, and descriptive text. The "Smooth your deployment" and "Troubleshooting and Q&A" sections are visible at the bottom, each with a corresponding button.



The screenshot shows the "Quickstart Guides" page. The header has a dark blue bar with the text "Quickstart Guides" and a search icon. Below the header, a command-line interface (CLI) box contains the text "\$ 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." A numbered list item "4" is followed by the text "Install the server package with the percona-release command:" and a CLI box containing "\$ sudo apt install percona-server-server". A note below it says, "For more information on percona-release command see [Configuring Percona Repositories](#)". Another numbered list item "5" is followed by the text "It should now be installed! Percona Server runs automatically after installation. To control the service, learn how to [Stop/Run Percona Server](#)".



This screenshot is identical to the one above, showing the "Quickstart Guides" page. It displays the same CLI examples, notes, numbered list items, and additional sections like "Next steps" and "Create a database →".



This screenshot is identical to the ones above, showing the "Quickstart Guides" page. It includes the CLI examples, notes, numbered list items, and the "Next steps" section. At the bottom, there is a list of bullet points: "Follow our [Prepare for production guide](#) to run a robust and scalable enterprise-grade database." and "Check if you want to [change the storage engine](#)".

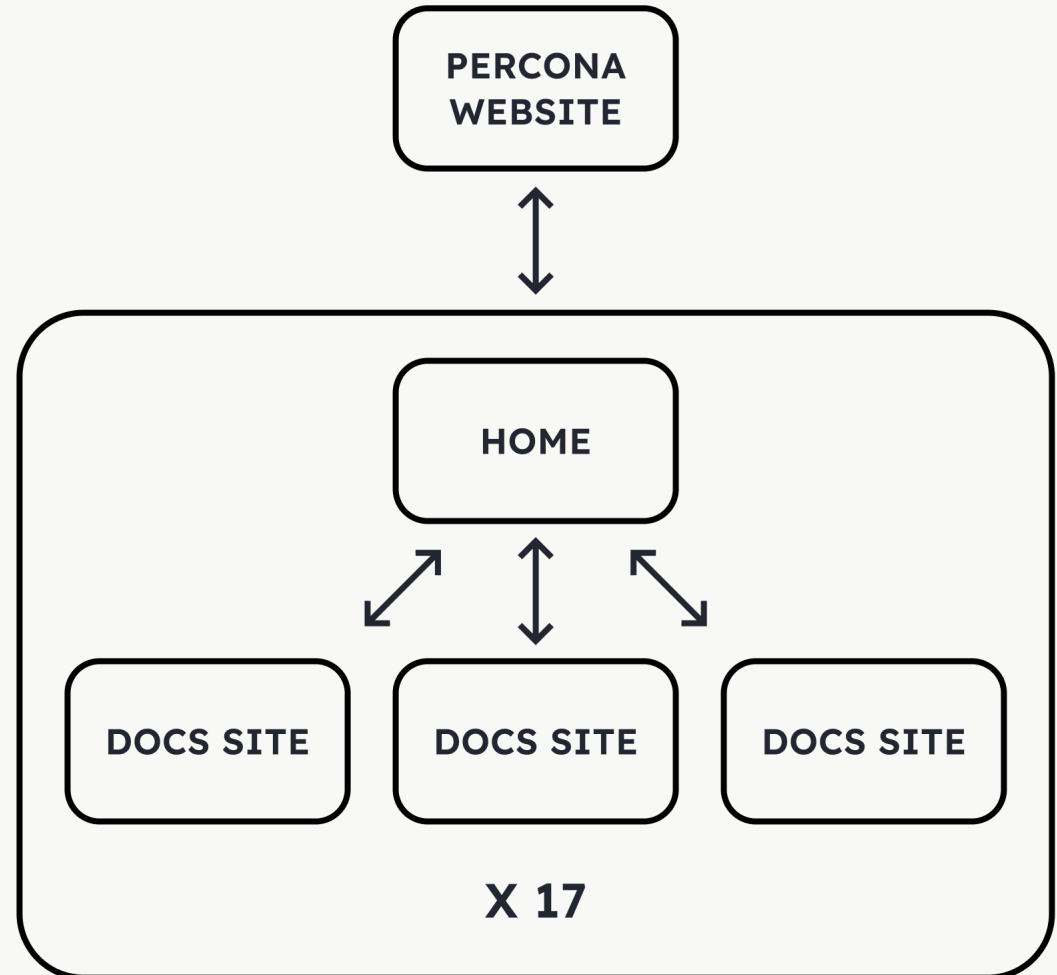
UNIFY THE EXPERIENCE

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](#)