

# **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?

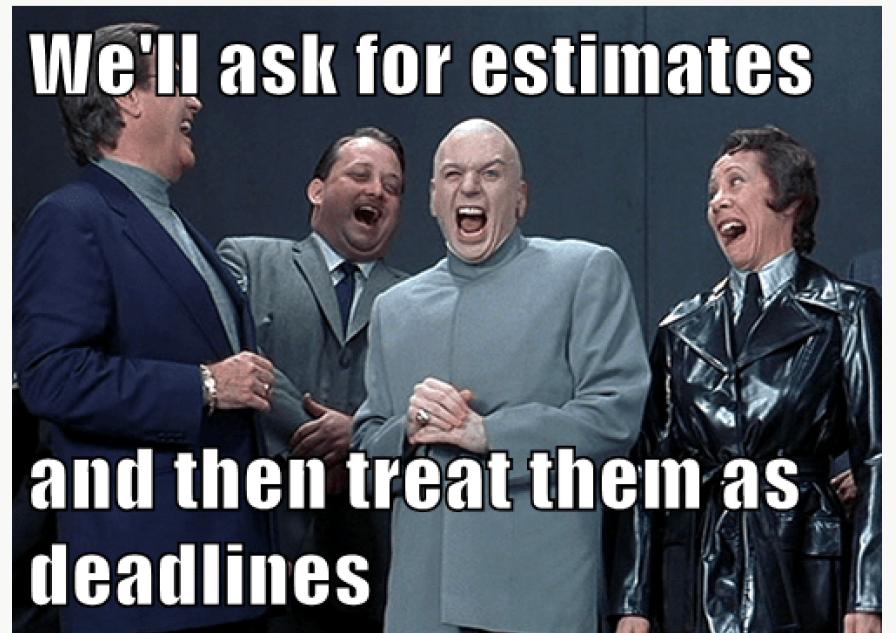
# MOTIVATIONS

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



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

- Databases are technical and complex
- Expanding the user base means increasing research costs
- Error 404: Design culture not found
- Rapid software implementation ≠ Rapid UX implementation



While we create something better in-product,  
what else could we do **now**?

Imagine assembling this...

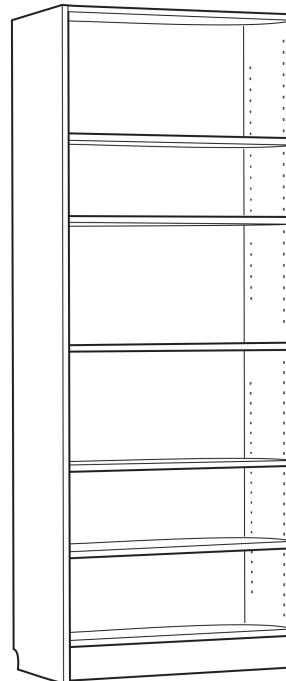


By only guessing



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.

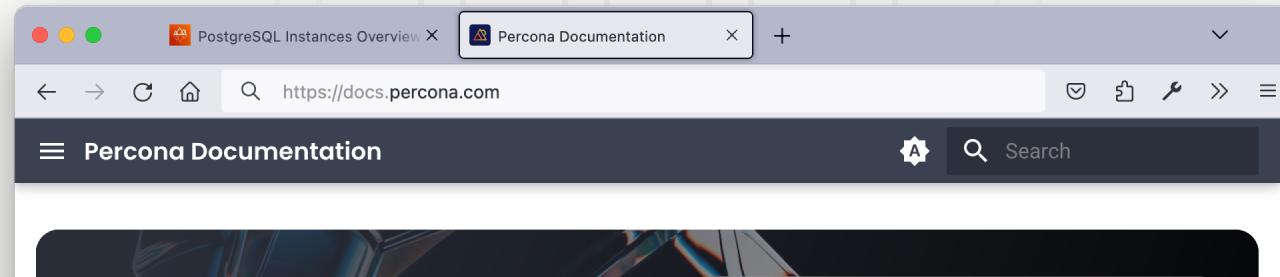
INSTALL



DEVELOP



UPKEEP





# **DOCUMENTATION DESIGN RATIONALE**

# **STRATEGIC ASSET**

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.**

- Identify people and audit accessibility
- Set objectives • Define the action scope
- Establish the ownership • Set standards
- Define tech stack • Pick health metrics
- Set feedback streams • Plan maintenance



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 v0.6.0 · percona/k8sps-docs · GitHub · 0 stars · 3 forks

[Search](#)

[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](#)

**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.

## **CO-OWNERSHIP**

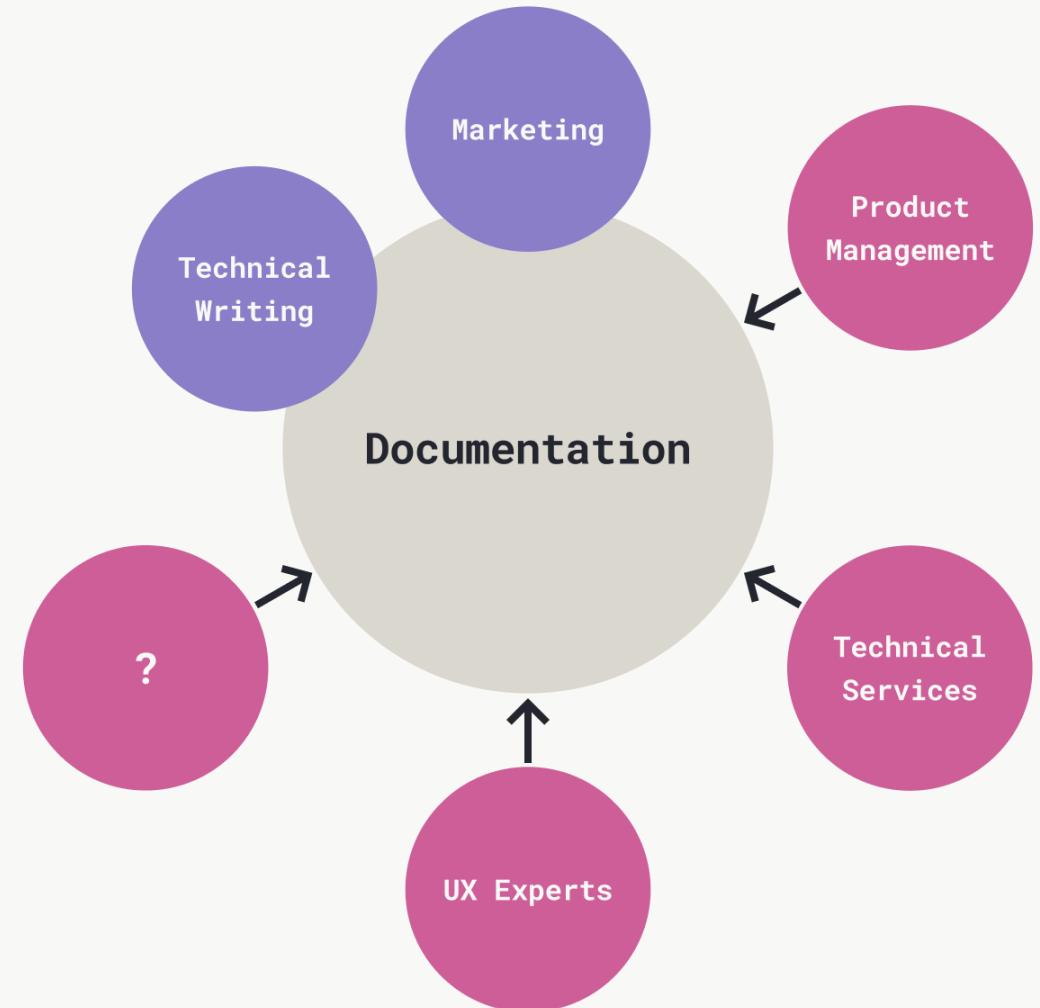
Who could help? Where's the knowledge?  
Who could share responsibilities?

## Kept

- Creation of content • Management
- Data analysis

## Added

- Speed • Visibility • Openness
- The user's POV
- Horizontal communication
- New methodologies • New tools



# **CLARITY**

Is the content accessible to people?

Does it provide intuitive access to their needs?

Are there untapped opportunities?

# 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 background with white text. It features a sidebar with navigation links for various MySQL versions and sections like 'Features', 'Highlights', 'New features', 'Improvements', 'Bugs Fixed', 'Deprecation and removal', and 'Supported Platforms'. The main content area contains detailed text about the Operator's functionality and its evolution from a tech preview to a general availability stage.

## 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 background with dark text. It features a sidebar with navigation links for 'About', 'Features', 'Release Notes', and 'Latest Release 8.0.33-25'. The main content area contains detailed text about the latest release, including 'New features' (with a list of bugs fixed like PS-8188), 'Bug fixes' (with a list of bugs like PS-8647), and 'Useful links' (with links to GitHub and product downloads). A large black arrow points from the 'BEFORE' screenshot to the 'AFTER' screenshot, indicating the transition.

# 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 dark-themed web page for the 'Percona Operator for MySQL based on Percona Server for MySQL'. The main content is titled 'Install Percona Server for MySQL on Google Kubernetes Engine (GKE)'. On the left, there's a sidebar with navigation links like 'Welcome', 'Features', 'Quickstart guides', 'Installation', 'System Requirements', 'Configuration and Management', 'Troubleshooting', 'Reference', and 'Release Notes'. Below the title, there's a 'Table of contents' section with links to 'Prerequisites', 'Create and configure the GKE cluster', 'Install the Operator and deploy your MySQL cluster', 'Verifying the cluster operation', 'Troubleshooting', and 'Removing the GKE cluster'. At the bottom, there's a 'Note' section with a note about using the gcloud command.

## AFTER

The screenshot shows a light-themed web page for 'Percona Server for MySQL'. The main content is titled 'Quickstart Guides'. On the left, there's a sidebar with navigation links like 'About', 'Installation', 'How to', 'Backup and Restore', 'Security', 'Storage Engines', 'Troubleshoot', 'Reference', and 'Installing PMM'. Below the title, there's a 'Table of contents' section with links to 'Install via apt', 'Install via yum', 'Kubernetes', 'Docker', 'Manual Download', 'Post-installation tips', 'Upgrade', and 'Downgrade'. A large arrow points from the 'Installation' link in the sidebar to the 'Install via apt' link in the content area. The content area also includes sections for 'Install via apt' and 'Install via yum' with corresponding code snippets and notes.

# Extended

- New custom components
  - Tiny Admonitions: when you want to be a little more subtle
  - Framed Content: when you wish to disrupt and announce
- Use of out-of-the-box components
  - Feedback Module
  - And more

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 with links: Installation, Quickstart Guides, Install via apt, Installation guide, Run/Stop, apt Pinning, Uninstall (which is bolded), Install via yum, Kubernetes, Docker, Manual Download, Post-installation tips, Upgrade, and Downgrade.

Two large arrows point from the "Uninstall" link in the sidebar to two separate admonition boxes:

- 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.).

A call-to-action box at the bottom right encourages users to "Get expert help" by visiting the community forum or contacting a Percona Expert.

At the bottom of the page, there are links for "Was this page helpful?", "Community Forum", and "Get a Percona Expert". The footer contains copyright information: "Percona LLC and/or its affiliates © 2023 – Cookie Consent" and "Made with Material for MkDocs".

# **USER EXPERIENCE**

What can we do for them?

How might we anticipate their needs?

How can we make them succeed?

# Invested in

- Understanding people's needs
- Experimenting with navigation
- Guidelines for navigation streamlining
- Quickstart guide creation
- Visually prominent guiding steps

The screenshot shows a navigation bar with links: About, **Installation**, How to, Backup and Restore, Security, Storage Engines, Troubleshoot, Reference, and Installing PMM. The Installation section is expanded, showing sub-links: Installation, Quickstart Guides, Install via apt, Installation guide (which is active), Run/Stop, apt Pinning, Uninstall, Install via yum, Kubernetes, Docker, Manual Download, Post-installation tips, Upgrade, and Downgrade. Below this is a code block with two commands:  
\$ sudo apt update  
\$ sudo apt install curl

Text: Once everything is updated and ready, you can follow the below tasks to install:

- 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 by-their-hand, through key touchpoints, into discovering what they needed.

☰ Percona Server for MySQL

## Percona Server for MySQL



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.

Starting with Percona Server for MySQL is easy. Follow our documentation guides, and you'll be set up in a minute.

### ⊕ Installation guides

Want to see it for yourself? Get started quickly with our step-by-step installation instructions.

[Quickstart Guides →](#)

### 🛡 Top-notch security

Rest assured! Learn more about our security features designed to protect your valuable data.

[Security Measures →](#)

### ✉ Smooth your deployment

Discover the requirements to start with Percona Server for MySQL production.

[Production Requirements →](#)

### 🚧 Troubleshooting and Q&A

Our comprehensive resources will help you overcome challenges, from everyday issues to specific doubts.

[Troubleshoot and Q&A →](#)

## ☰ Quickstart Guides

```
$ 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 service, learn how to [Stop/Run Percona Server](#).

## Next steps

Want to quickly test Percona Server for MySQL? Navigate into our easy-to-follow guide below, so you can understand the power of fast and performant databases with Percona.

[Create a database →](#)

Here are a few other useful topics to continue venturing into Percona Server:

- Follow our [Prepare for production](#) guide to run a robust and scalable enterprise-grade database.
- Check if you want to [change the storage engine](#).

## **UNIFYING THE EXPERIENCE**

Imagine using the documentation.

How does it look like? How might we improve it?

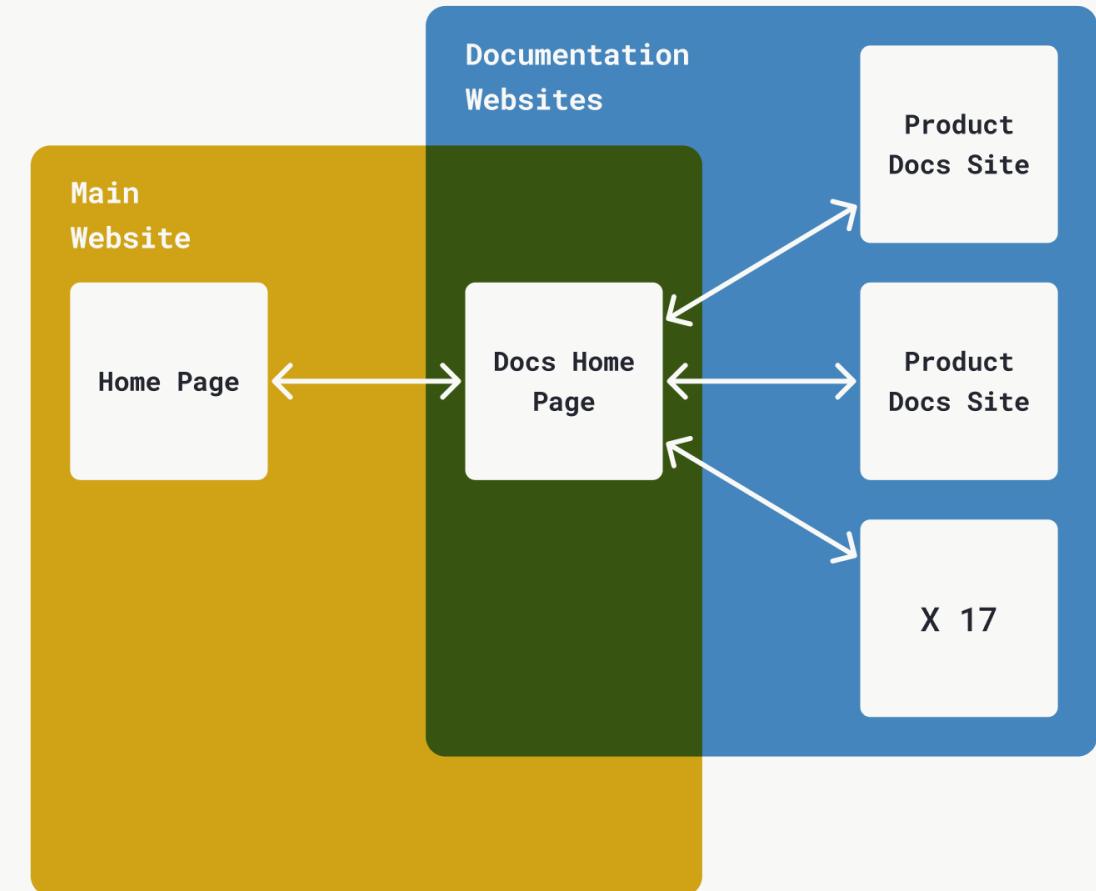
Does it feel whole and credible?

## Changed

- Moved the Documentation Home Page
- Main website → Documentation websites
- Kept link from Main Website Home Page

## Gained

- Documentation Home Page feels similar to the product documentation
- Navigation patterns are the similar
- Feels like the same space
- Feels whole and professional



## **OVERVIEW OF WHAT WE DID**

- Definition of a strategy • Set up co-ownership • Provide clarity
- Help people achieve their goals

# **THANK YOU!**

**Re-thinking product adoption  
through documentation design**

By Pedro MC Fernandes at  **PERCONA**

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# TO DO

- Final imagery from docs home
- Conclusion

Extras:

- Outdated documentation
- Inconsistent content across products
- Lack of practical examples