

# **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?

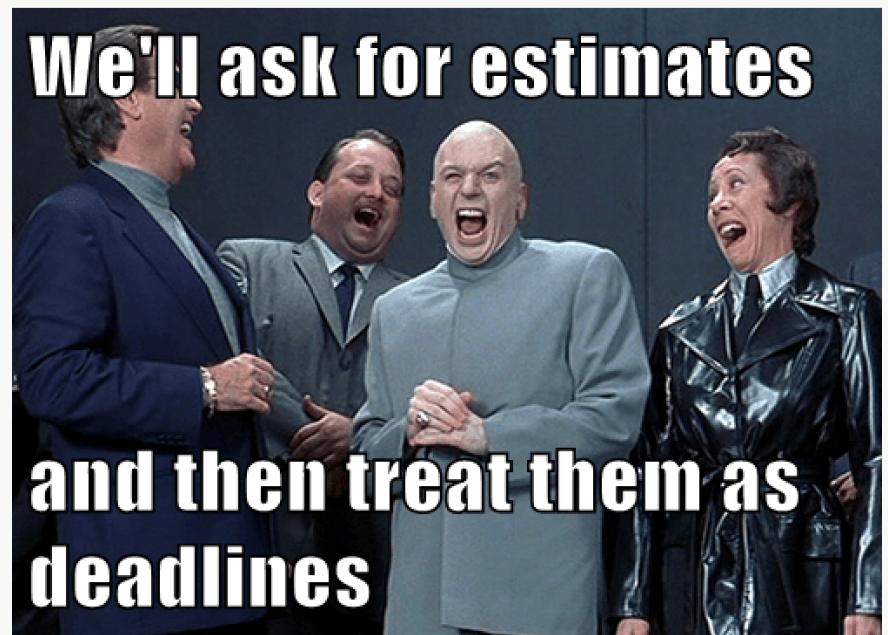
# MOTIVATIONS

- 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...

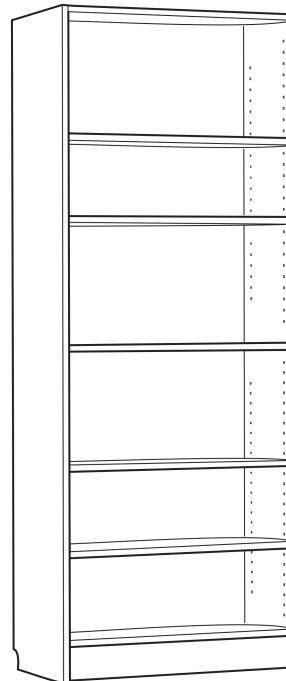


By only guessing



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.

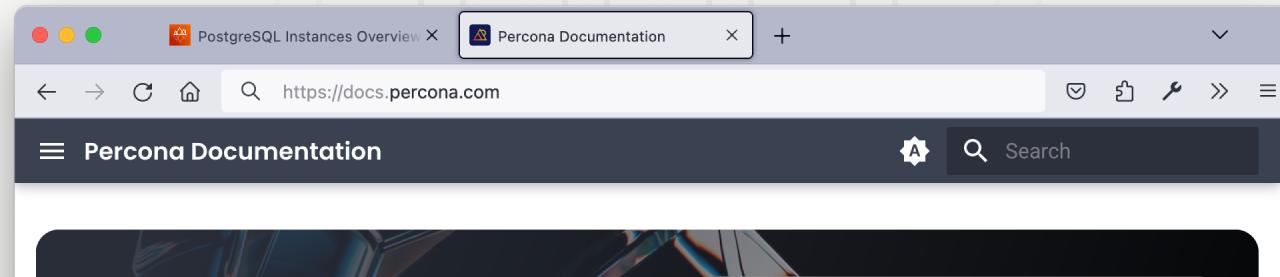
INSTALL

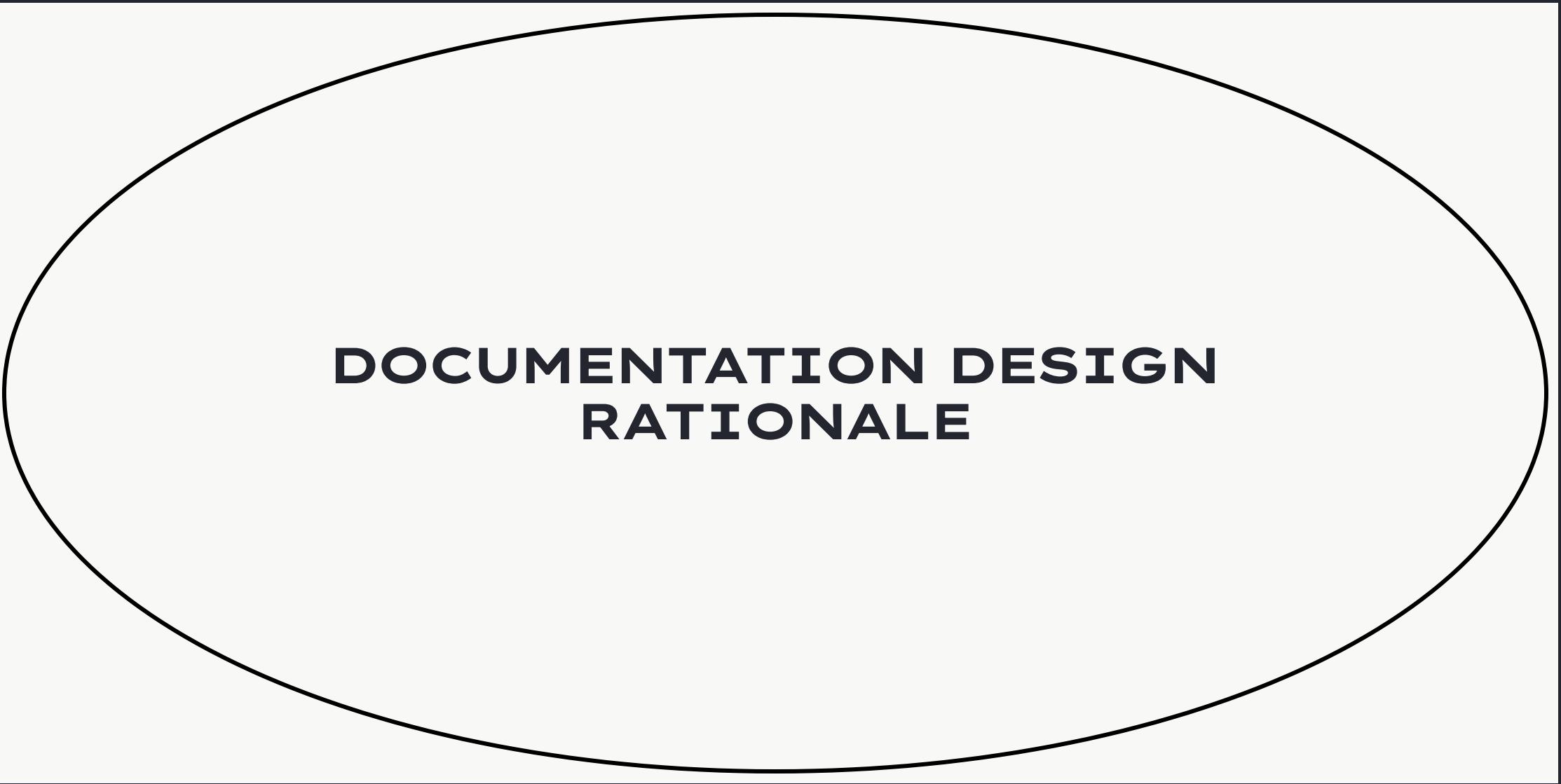


DEVELOP



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**

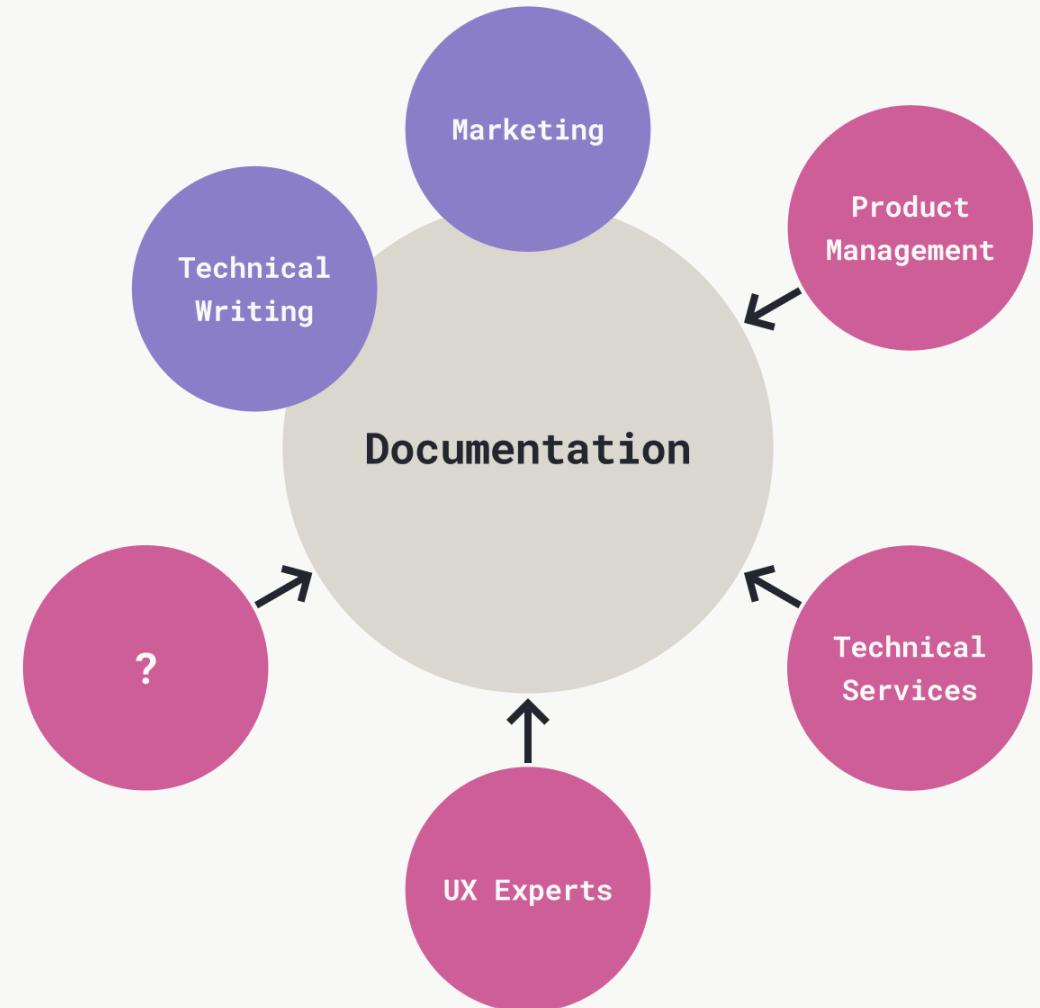
Who could help? Where's the knowledge?  
Who could share responsibilities?

## 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)' page. The header includes the Percona logo, 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'. Below the header, there's a 'Table of contents' sidebar with sections like 'Highlights', 'New features', 'Improvements', 'Bugs Fixed', 'Deprecation and removal', and 'Supported Platforms'. The main content area contains detailed descriptions of the Operator's features, including its role as a tech preview and its compatibility with the XtraDB Cluster.

## AFTER

The screenshot shows the 'Latest Release 8.0.33-25' page. The header includes the Percona logo, 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'. Below the header, there's a 'Table of contents' sidebar with sections like 'Release highlights', 'New features', 'Bug fixes', and 'Useful links'. The main content area contains detailed descriptions of the release's features, including bug fixes and improvements. 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 like Installation, Quickstart Guides, Install via apt, Installation guide, Run/Stop, apt Pinning, Uninstall (which is highlighted in blue), 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 sections in the main content area. The first arrow points to a section titled 'Either remove the packages.' which contains a command line example: '\$ sudo apt remove percona-server\' and a note: 'This will leave the data files (databases, tables, logs, configuration, etc.) behind. If you don't need them, you must remove them manually.' The second arrow points to a section titled 'Or purge the packages and delete data files.' which contains a command line example: '\$ sudo apt purge percona-server\' and a warning: 'Warning: This command removes all the packages and deletes all the data files (databases, tables, logs, and so on.).' Below these sections is a 'Get expert help' box containing links to the Community Forum and Get a Percona Expert. At the bottom of the page is a footer with links to Percona LLC and its affiliates, a cookie consent notice, and a 'Was this page helpful?' section with smiley face icons.

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.).

**Get expert help**

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](#)

Was this page helpful?

Was this page helpful?

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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 the people's needs
- Experimenting with the navigation
- Creating guidelines for navigation streamlining
- Forming quickstart guides
- Make visually prominent guides

The screenshot shows a navigation bar with links: About, **Installation**, 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 dark header "Installation guide". Under "Installation", there are sections for Quickstart Guides, Install via apt (with a "Installation guide" link), Run/Stop, apt Pinning, Uninstall, Install via yum, Kubernetes, Docker, Manual Download, Post-installation tips, Upgrade, and Downgrade. To the right, under "Before starting", it says: "Before starting, we advise updating the apt repositories and installing curl download utility to fetch the package. If you want to fetch the package manually, follow this guide instead: [Manual Installation](#)". Below this is a code block: 

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

. A note follows: "Once everything is updated and ready, you can follow the below tasks to install:". A numbered list of steps is provided:

- 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
```

At the bottom, a note says: "For more information on `percona-release` command see [Configuring Percona Repositories](#)". Step 5 is partially visible at the bottom.

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](#).

# **UNIFICATION**

Imagine using the documentation.

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

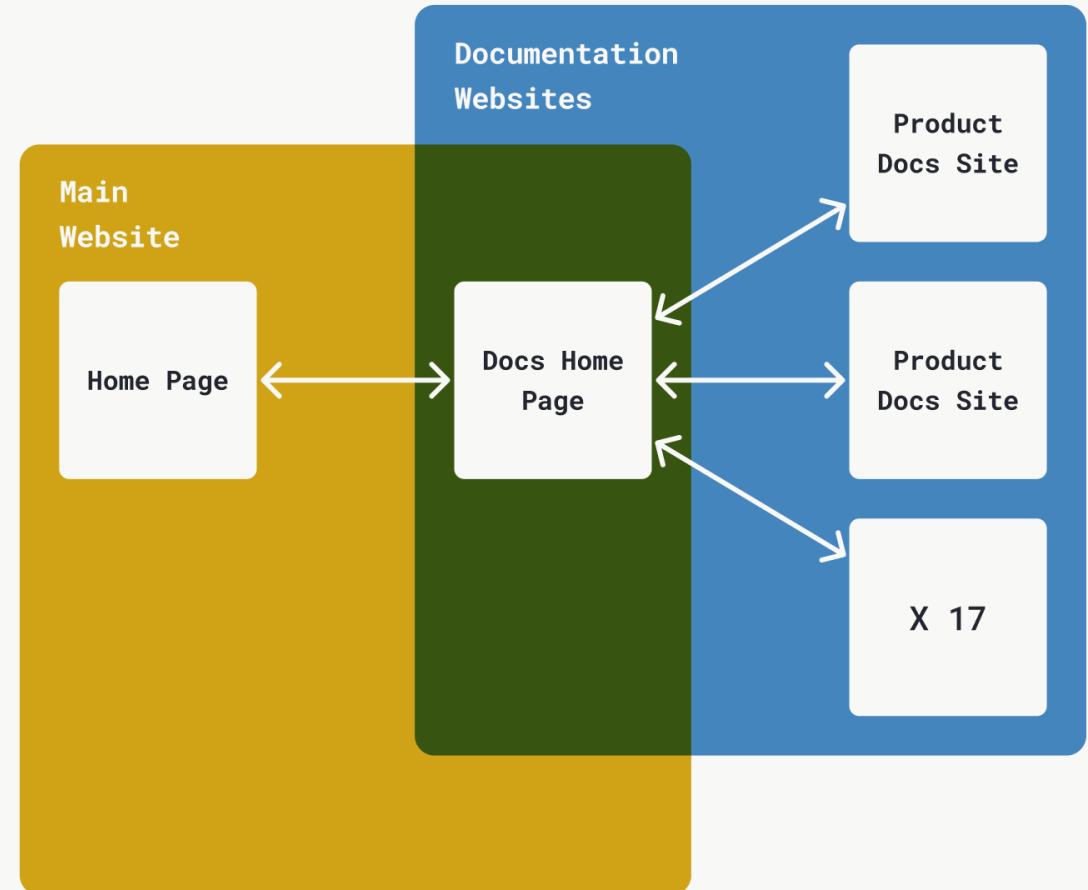
Does it feel whole and credible?

## Changed things

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

## Gained

- Documentation Home feels similar to other documentation sites
- Navigation patterns are similar
- It feels like the same space
- It's whole and professional



# **OVERVIEW**

## **Done**

- Defined a strategy for the documentation • Established the co-ownership
- Made it clear and accessible • Shaped a better user experience • Unified the website

## **To do**

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

# THANK YOU!

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

By Pedro MC Fernandes at  PERCONA

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