



Why Customers Choose Percona for MongoDB

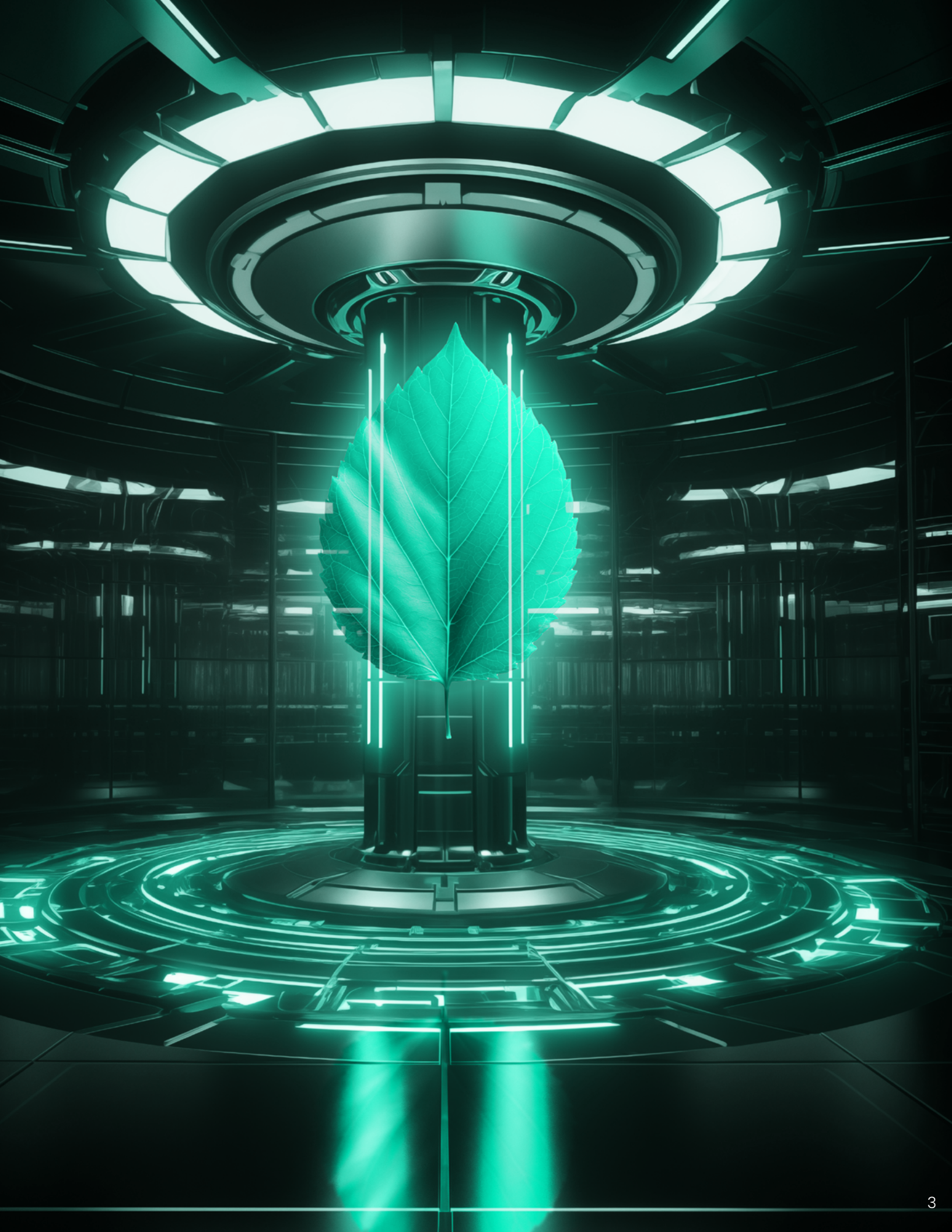
Run MongoDB on your terms

Why Customers Choose Percona for MongoDB

Run MongoDB on your terms

Table of Contents

5	Navigating the enterprise trap
8	Percona software for MongoDB
14	Support and services for MongoDB
18	Customer case studies
19	What's next?
20	Comparison table



Ranked as the fifth most used database as of January 2024 by DB-Engines, MongoDB is well-known for its outstanding performance, dependability, and scalability. It is a NoSQL database that excels at managing massive amounts of data and uses a document-oriented approach for data management, allowing for more complex and diverse data structures than traditional relational databases that rely on tables and rows. It is extensively used in contexts where quick access to various data types is required, and it provides capabilities like replication, sharding for horizontal scalability, and full index support.

However...

While MongoDB is obviously a popular choice, database architects and DBAs need to consider its limitations and explore other options. Importantly, MongoDB Community Edition, though free to use, lacks numerous enterprise capabilities that come at a significant expense. This lack of features in the free edition is not accidental but rather a strategic part of MongoDB's business model, steering users towards its paid offerings.

It's essential to understand that MongoDB is not an open source solution, which can be a significant concern for those seeking the freedom and flexibility to use a database system how they need to. MongoDB takes an aggressive approach to pulling users into its ecosystem, and once users start using MongoDB Community Edition, the transition to more advanced features – which come at a significant cost – seems almost inevitable. This strategy, known as vendor lock-in, can be risky for businesses, restricting the ability to switch to other vendors in the future without incurring substantial costs and demonstrates the importance of maintaining flexibility and independence from a single vendor in your database architecture decisions.

By investigating alternatives that offer enterprise-grade features, DBAs can find solutions that align more closely with their specific requirements and budgetary constraints, offering greater scalability and adaptability for future needs.

Enter Percona for MongoDB

Percona for MongoDB is ideal for organizations looking to leverage the inherent power of MongoDB on their own terms. It is a comprehensive, source-available solution that enhances the performance and functionality of MongoDB Community Edition with its enterprise-grade, feature-rich offerings that provide a solid comparison to MongoDB Enterprise Edition. But we don't just stop there; Percona for MongoDB also offers unparalleled expert support and services, ensuring that you receive a software solution and a partnership that helps you navigate the complexities of MongoDB database management — without vendor lock-in constraints.

This guide will lead you through our MongoDB software, support, and services and feature customer case studies that illustrate real-world scenarios where companies have benefitted from switching to or incorporating Percona for MongoDB. These case studies highlight the tangible impacts of performance improvements, cost savings, and enhanced database reliability and security.

Navigating the enterprise trap: Choosing an alternative to corporate MongoDB

While the proprietary enterprise version of MongoDB boasts a range of advanced features, organizations must weigh these benefits against several notable drawbacks. Choosing Percona for MongoDB over MongoDB Community Edition, MongoDB Enterprise, or MongoDB Atlas can be advantageous for several reasons:

Cost-effectiveness: Percona is a more cost-effective option, particularly for businesses trying to avoid the higher costs connected with MongoDB Atlas or Enterprise. With Percona, you get many of the same features without the associated costs.

No vendor lock-in: One of the primary benefits of Percona is the avoidance of vendor lock-in. As a fully managed service provided by MongoDB, Inc., MongoDB may restrict your options for migrating to other platforms and integrating with other tools or services. Percona delivers more freedom in this regard.

Customizability and control: Percona software for MongoDB can be customized to match your unique or complicated environment's performance, security, and operational requirements.

Open source advantage: Percona software for MongoDB is source available, allowing for transparency in its codebase and community-driven development. This can be important for organizations that prefer open source software for its flexibility, security, and community support.

Comprehensive support services: Percona provides strong support services, which may make a difference for businesses needing dependable, superior assistance but are hesitant to commit to the more expensive support levels MongoDB offers.

Advanced features without additional cost: Percona software for MongoDB includes several advanced features without additional cost. For example, enterprise-grade security and backup capabilities are often not included in MongoDB Community Edition and are limited to higher-tier MongoDB Enterprise and Atlas plans.

Integration and compatibility: Source available software, like Percona for MongoDB, is frequently developed with integration in mind and is suitable for a variety of settings. Proprietary software, on the other hand, could be challenging to integrate or require additional investment in compatible systems.

No long-term commitment: Percona's solutions and support services don't require long-term commitments or contracts, providing more flexibility, especially for businesses with changing needs.

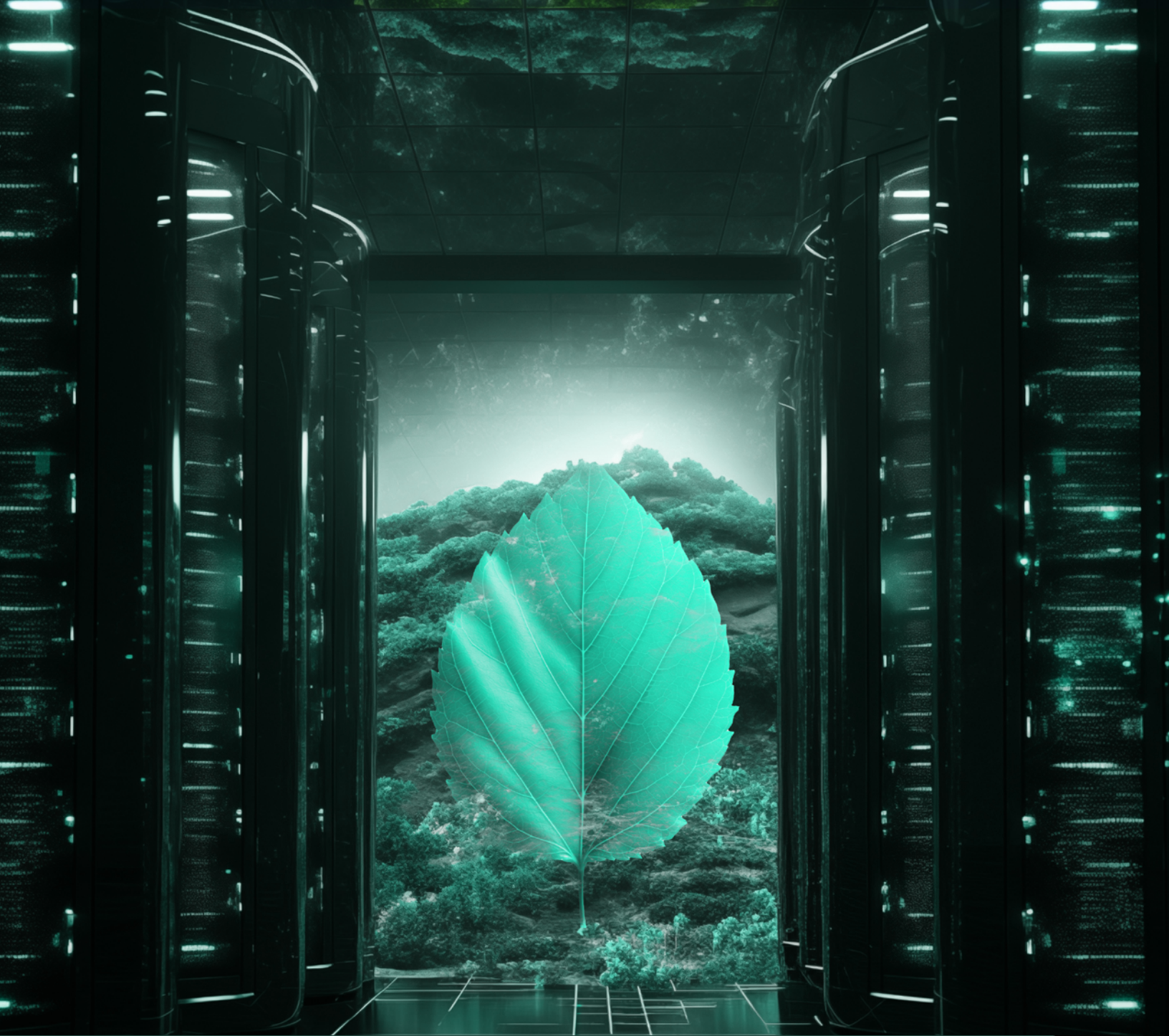
Percona for MongoDB is a better option than MongoDB Enterprise or Atlas if your organization is concerned about cost-effectiveness, wants flexibility in deployment, seeks to avoid vendor lock-in, and values complete control and customizability over your MongoDB environment.



For the reasons listed above, a growing number of businesses are selecting open source solutions over proprietary ones; here's some current news on the subject:

- The Global Spotlight 2023 report found that over 90% of organizations adopt open source software at least moderately. - [Linux Foundation](#)
- 68% of survey respondents use open source software to avoid vendor lock-in - [Percona OSS Survey 2023](#)
- Amazon, Audi, BMW, Google, IBM, and Facebook are just a small sampling of leading corporations that use open source software for enterprise use. - [CodeSnail](#)
- When working with external partners for database management support, nearly all survey respondents engage third-party support providers more frequently than they rely on vendor support. - [Percona OSS Survey 2023](#)
- Open source helps keep your IT organization from getting blocked because a particular capability isn't available from a vendor. Instead of waiting for the vendor to deliver that capability, you can create it yourself. - [Enterprisers Project](#)
- Most (83%) survey respondents consider cost savings a significant factor for moving to open source. - [Percona OSS Survey 2023](#)
- "The most prevalent misconception about open source software is traditionally tied to its security deficiencies. However, the high volume of vulnerabilities being patched only demonstrates the strength of the large community around these projects. Thus, instead of sweeping security errors under the rug, the community addresses them and directly informs the users." - [Forbes](#)
- Today, 41% of all database instances are licensed via community-supported open source models, vs. 29% for proprietary commercial versions. - [Percona OSS Survey 2023](#)





**Percona software for MongoDB:
Source-available and enterprise-ready**

Percona software for MongoDB: Source-available and enterprise-ready

Features like enterprise-grade encryption, enhanced security measures, improved usability, and advanced backup and scaling capabilities without the restrictions of license agreements or lock-in techniques, previously only available with Enterprise or Atlas, are all included in Percona software for MongoDB.

Percona gives you the freedom to deploy and scale your MongoDB instances in various environments, including on-premises, private or public clouds, and hybrid configurations. You maintain complete ownership and accessibility of your data, with a guarantee of no upselling or forced commitments towards services like MongoDB Atlas. This flexible licensing model allows unrestricted use within your organization.

Percona for MongoDB allows you to run high-performance MongoDB environments your way, wherever and however you choose. Now, let's dig deeper into each component that makes up Percona software for MongoDB. However, if you want to skip to the end of this document, there's a full, feature-by-feature comparison of Percona for MongoDB and MongoDB Enterprise, Atlas, and Community Edition.

Percona Distribution for MongoDB

Percona Distribution for MongoDB is a source-available enterprise-grade MongoDB solution featuring the best available open source enterprise components designed and tested to work together. At the center of the distribution is Percona Server for MongoDB, delivering high performance and reliability to enterprises looking to achieve optimum performance without being tied into an expensive proprietary vendor relationship, and Percona Backup for MongoDB, a fully supported, open source, community backup tool designed to give you an easy commandline interface to perform a consistent backup/restore of clusters and non-sharded replica sets.

Because of the additional enterprise features and tools included in Percona Distribution for MongoDB, it is more performant, robust, and feature-rich than MongoDB Community and comparable to MongoDB Enterprise or MongoDB Atlas, but without any license fees. Our distribution is backed by the availability of world-class support and engineering teams, giving you peace of mind and 24x7 support to run performant and secure MongoDB on-premises and in the most demanding public, private, and hybrid cloud environments.

Let's take a look at each component of the distribution in more detail.

Percona Server for MongoDB

Percona Server for MongoDB is built upon MongoDB Community Edition and enhanced with an extensive list of enterprise-class features, offering high performance, elasticity, and reliability, as well as data protection features like access and audit controls to safeguard sensitive data to ensure your data is always available and scalable to meet the rigorous demands of enterprise applications. And with Percona, migrating is straightforward, with no changes to MongoDB applications or code.

In addition, Percona Server for MongoDB incorporates external authentication via OpenLDAP/AD or Kerberos, has audit logging and log redaction for enhanced safety and accountability, and integrates the Encrypted WiredTiger Storage Engine for data-at-rest encryption. It's fully compatible with the Percona Operator for MongoDB, enabling easy deployment and management of complex MongoDB topologies in cloud-native environments. (More on that later!)



Percona Backup for MongoDB

A fully supported, community-driven open source backup solution, Percona Backup for MongoDB provides a cost-effective and flexible alternative to proprietary software. This enterprise-grade backup tool is 100% open source, eliminating costs and vendor lock-in.

It stands out for its distributed, low-impact approach to creating consistent backups of MongoDB clusters, including those with sharding. Its capabilities extend to various backup types, such as logical, physical, incremental, selective, snapshot backups, and restores. A notable feature is its point-in-time recovery functionality, allowing for precise database recovery to a specific timestamp.

In terms of security, Percona Backup for MongoDB integrates MongoDB authentication, streamlining the security process and ensuring data safety. It also guarantees advanced consistency for distributed transactions in MongoDB version 4.2 and above. Another noteworthy feature is storage flexibility, offering compatibility with any S3-compatible storage, Microsoft Azure Blob storage, and support for filesystem storage type for backups on locally mounted remote filesystem servers.



Percona Operator for MongoDB

We did say we would discuss this a little later! For those operating in a cloud-native environment, the Percona Operator for MongoDB is invaluable. It is compatible with Percona Distribution for MongoDB to deploy and manage MongoDB in Kubernetes, automating deployment, scaling, and maintenance tasks. This operator is designed to simplify handling complex MongoDB topologies and ensures seamless scaling through its sharding support as your dataset grows. It automatically expands Percona Server for MongoDB clusters, adding arbiter or non-voting replica set nodes for optimized performance and reliability, all with minimal manual input.

Prioritizing security, the operator enforces TLS/SSL for secure connections by default and supports zero downtime during software upgrades, maintaining uninterrupted operational efficiency. Overall, the operator provides a comprehensive solution for achieving high availability, scalability, and ease of maintenance for MongoDB clusters in cloud-native environments.

Key advantages of Percona for MongoDB

Avoiding vendor lock-in: As mentioned earlier but significant enough to say again, with Percona, the fear of being tied to a specific vendor's ecosystem, like MongoDB Atlas, is mitigated. This freedom allows for greater flexibility and control over your database infrastructure, enabling you to make choices that best suit your organization's needs without being constrained by vendor-specific limitations or strategies. This offers a distinct advantage for those who require enterprise-grade features but desire the freedom of an open source framework.

Cost-effective scaling: Percona software for MongoDB allows organizations to scale their database infrastructure freely without the looming concern of escalating licensing costs or losing critical features. This particularly benefits those transitioning from MongoDB Community Edition, as Percona ensures you retain the essential features you need.

Enhanced MongoDB CE: By enhancing MongoDB Community Edition with enterprise-grade encryption, security, usability, backup, and scalability features, Percona presents a cost-effective solution that rivals Enterprise or Atlas.

Freedom to deploy: With Percona, you can deploy and scale MongoDB in diverse environments — public or private cloud, on-premises, or a hybrid setup — without financial commitment.

A focus on support: Percona's focus on support services is a significant draw, especially for larger organizations with in-house automation or DevOps teams. While capable of handling day-to-day operations, these teams often require reliable vendor support for more complex database-level issues. Percona provides this level of support, exemplified by our work with clients like Dell and American Express.

Managed services for responsiveness: For those who have not yet transitioned to MongoDB Atlas, Percona offers managed services to ensure that your database is always well-maintained and promptly responsive in case of any issues. This is a vital service for organizations that need the assurance of immediate and expert database assistance.

Professional services for strategic guidance: Whether reviewing costs, seeking a deeper understanding of your database, or considering moving from on-premises MongoDB Atlas to Percona software for MongoDB, Percona's expert guidance helps navigate these transitions smoothly. This service also benefits those looking to transition from the Community Edition.

Tailored solutions for smaller customers: Smaller customers with less complex MongoDB deployments also benefit significantly from Percona's services. The option to have a reliable escalation point for severe application or database issues, without the need for a full-scale enterprise solution, provides peace of mind and ensures operational continuity.

Optimal performance guaranteed: Percona stands committed to maintaining your MongoDB environment's peak performance. Scale your operations up or out without worrying about unexpected fees, contract modifications, or long-term commitments.

Integration with Percona Monitoring and Management (PMM): PMM allows for comprehensive observation, monitoring, and management of your databases. This integration ensures clear visibility and control over your MongoDB infrastructure, maintaining optimal performance and efficiency. Let's discuss PMM a little more...



PERCONA

**Monitoring and
Management**

Percona Monitoring and Management

Percona Monitoring and Management (PMM) is a versatile open source tool designed to monitor, manage, and enhance the performance of your MongoDB databases, irrespective of their location or deployment. This tool offers comprehensive observability for MongoDB, providing crucial insights into database behavior, such as slow-performing queries and potential issues that might impact your applications. With PMM's MongoDB-specific dashboards, you can manage and optimize your database more effectively by having comprehensive visibility into its health, performance, and infrastructure utilization.

One of the key features of PMM is Query Analytics for MongoDB. This functionality allows for detailed examination and troubleshooting of database performance, from overall node performance to individual query levels. PMM can be configured to monitor critical metrics and thresholds, automatically detecting anomalies and alerting you when intervention is needed.

PMM also includes Percona Advisors for MongoDB, a dynamic component that continuously scans databases for potential security threats, compliance issues, and performance enhancement opportunities. These advisors are constantly updated based on technological advancements and user feedback, providing checks against various risks, including availability, replication inconsistencies, passwordless users, unsecure connections, and unstable OS configurations. They also identify areas for performance improvements, ensuring your MongoDB databases remain secure, compliant, and optimally performant.





**Support and services for MongoDB?
We've got you covered.**

Support and services for MongoDB? We've got you covered.

We know MongoDB. From day-to-day support to hands-on assistance for complex projects, our experienced database performance experts are ready to help you tackle any challenge. Our approach enables organizations to unify their open source database services securely and cost-effectively, boosting their competitive advantage and agility while avoiding the pitfalls of vendor lock-in.

Navigating the complexities of database management, whether on-premises or cloud-based, often involves ensuring peak performance – an overwhelming task, especially for organizations without specialized in-house expertise or the capacity to hire a full-time database administrator. To address these challenges, Percona presents a range of flexible service options, all free from the constraints of long-term contracts.

Understanding that many of our clients utilize multiple service offerings, we've organized our services clearly, outlining what each one entails to assist you in making informed decisions that best suit your needs.



Percona Support for MongoDB

Percona Support for MongoDB is an essential service for organizations aiming to maintain the continuous performance of their MongoDB deployments with around-the-clock, year-round consultative support. Percona provides on-demand MongoDB support as a trusted advisor, featuring 24x7x365 access to experienced professionals and premium service level agreements (SLAs) at standard-rate prices. This support is particularly beneficial for organizations seeking to augment their in-house expertise with Percona's specialized knowledge.

With Percona Support for MongoDB, you can ensure your MongoDB installation runs optimally, overcoming issues that might negatively impact performance, such as poorly optimized queries, slow response times, unlocked security, incorrectly installed software, or improperly configured settings. Our support engineers, experienced in tackling a wide range of problems, offer diagnostic and resolution services that can implement fixes in hours, not weeks, significantly reducing application downtime.

The support also focuses on increasing uptime and swiftly restoring service while implementing performance improvements. Our clients receive best practices for high availability, backup, and database optimization to enhance the overall efficiency and reliability of their MongoDB environments.

In addition, Percona Support for MongoDB helps optimize infrastructure and cloud costs, offering an escape from expensive support contracts that tend to favor proprietary vendors. The service provides two main support plans:

Advanced support plan: Ideal for complex business and technical needs in demanding environments. It includes 24x7x365 expert support with a 30-minute SLA for Severity 1 incidents, phone and chat support, product usage and service restoration assistance, software bug fixes, hot fixes, access to the Percona Knowledge Base, consultative support, and optional services like a Technical Account Manager and an assigned Customer Success Manager.

Premium support plan: Geared towards mission-critical environments with uncompromising, financially sensitive requirements, this plan includes everything in the Advanced plan, with a 15-minute SLA for Severity 1 incidents, community bug fixes, and liability and copyright indemnity options.

Both plans cover a range of software, including Percona Server for MongoDB, Percona Backup for MongoDB, Percona Operator for MongoDB, MongoDB Community, and Percona Monitoring and Management.

Percona Managed Services for MongoDB

Percona Managed Services for MongoDB offers a comprehensive solution for organizations looking to free their teams to focus on strategic priorities. It provides proactive, round-the-clock database management at a cost-effective rate compared to maintaining a full-time, dedicated DBA. This service is ideal for businesses that require 24/7 hands-on care, as it helps reduce critical incidents and allows your team to concentrate on driving your business forward.

With Percona Managed Services, you can have peace of mind knowing your MongoDB database is under the constant watch of technical experts. The service includes proactive monitoring and alert/response for your databases, a robust change management system to standardize database modifications, incident management, root cause analysis services, and a block of DBA hours to implement recommendations immediately. Additionally, a named Service Delivery Manager provides monthly calls and report cards, automated reports, monthly security assessments, and weekly health checks.

Percona offers two tailored service plans for MongoDB:

Advanced Managed Services: Ideal for production database environments, it features 24x7x365 hands-on support, 30-minute SLAs, proactive monitoring and alerting, basic maintenance (including critical patches), and robust change management. The plan also includes access to the Percona Knowledge Base, full support for any non-EOL software with operational support for one year post-EOL, yearly proactive deliverables, and a dedicated Service Delivery Manager.

Premium Managed Services: Designed for mission-critical environments, it includes everything in the Advanced plan plus 15-minute SLAs, 20 flexible hours for improvements and maintenance, eight hours per month of query tuning, liability and copyright indemnity options, quarterly proactive deliverables, and the availability of a "Sticky Engineer" for dedicated support.

Percona Consulting for MongoDB

Percona Consulting for MongoDB offers specialized assistance from experts adept at resolving intricate database performance issues and design challenges. This service is tailored to provide database expertise precisely when and where needed.

With a wealth of experience tackling complex database situations, Percona Consultants collaborate closely with clients to comprehend their specific goals and objectives and deliver optimal, unbiased solutions. Our custom-scoped consulting services cover a comprehensive range of MongoDB-related needs.

Percona Training

Elevate your team's MongoDB proficiency with Percona Training for MongoDB, offering expert-led, hands-on instruction tailored to maximize understanding, knowledge, and practical skills. Available in various formats, including onsite, virtual, or hybrid, this training is designed to help your teams thoroughly grasp and master MongoDB operations.

Percona's training courses are meticulously structured, catering to the specific needs of both Database Operation Specialists and Developers.

For Database Operation Specialists:

The curriculum covers a comprehensive range of topics essential for database administration:

Basic administration: Foundations of MongoDB administration, ensuring your team understands the core principles.

Replication: Techniques and best practices for replicating data, a critical aspect for ensuring data consistency and reliability.

Security: In-depth training on securing MongoDB installations and safeguarding data integrity and privacy.

Backup and recovery: Strategies for effective data backup and restoration, crucial for data preservation and disaster recovery.

High availability: Ensuring your MongoDB deployments are robust and resilient, minimizing downtime.

Monitoring: Techniques for effective monitoring of MongoDB environments, enabling proactive management.

Troubleshooting: Skills for diagnosing and resolving common and complex MongoDB issues.

For Developers:

The developer-focused tracks emphasize the architectural and programming aspects of MongoDB:

Architecture and design: Guidance on structuring and designing MongoDB databases for optimal performance and scalability.

Constructs: Understanding the fundamental building blocks of MongoDB.

Command basics: Mastery of essential MongoDB commands.

Indexes: Techniques for efficient indexing, crucial for query performance.

Sharding: Strategies for effectively distributing data across multiple servers.

Security basics: Fundamentals of securing MongoDB at the application level.

Percona Training for MongoDB is not just about imparting theoretical knowledge; it's an investment in your team's capability to utilize MongoDB to its fullest potential, enhancing individual and organizational competency in managing and developing MongoDB databases.



Customers embracing enterprise-ready MongoDB with Percona

Customers embracing enterprise-ready MongoDB with Percona

The rising popularity of Percona for MongoDB in the enterprise sector signifies a move towards more customizable and flexible database solutions. Organizations are increasingly drawn to Percona to escape vendor lock-in, utilize a database system tailored to their needs, and have access to expert support.

Success stories from various customers highlight a preference for Percona for MongoDB, and each story exemplifies how Percona solutions provide a mix of tailored functionality, advanced features, and the freedom of open source technology.



Percona Drives Cost Savings and Boosts Performance for The British Library's MongoDB Systems

The British Library, the UK's national library established in 1973, houses a vast collection of over 170 million items, including books, newspapers, sound recordings, and more. Managing such a diverse and extensive collection, the Library faced significant challenges, particularly with its MongoDB-based systems that store critical item metadata. While MongoDB's functionality and free usability initially attracted the Library, a change in MongoDB's support subscription model presented a challenge, as neither MongoDB Atlas nor MongoDB Enterprise met the Library's needs for minimal changes and budgetary constraints.

Percona offered a solution by tailoring their services to fit the Library's functional and budgetary needs, providing essential MongoDB Support for their on-premises systems. This collaboration is set to grow with the Library's plans to implement Percona Monitoring and Management and Percona Backup for MongoDB, enhancing the visibility of their existing systems and adding a robust backup solution.

Percona's support allowed The British Library to maintain its MongoDB infrastructure without any changes and at a comparable cost. This additional support was crucial, as Stephen Parker, a DBA at The British Library, praised Percona for their clarity, honesty, and integrity. Percona's approach has been a "breath of fresh air," focusing on the Library's needs and offering solutions that best fit their requirements. The British Library now relies on Percona for expert MongoDB support, monitoring, management, and backup, ensuring the efficient and cost-effective management of their vast and valuable collection.

Bukalapak's Database Scaling and Stability Achieved with Percona's MongoDB Expertise

Established in 2010, Indonesian-based technology unicorn PT Bukalapak focuses on fostering a fair economy through its online and offline commerce platforms. Bukalapak's initiatives include the B2B e-procurement line Buka Pengadaan Indonesia (BPI) and a digital-based mutual fund selling agent, Buka Investasi Bersama (BIB).

As a rapidly growing e-commerce platform, Bukalapak's success hinges on the reliability and stability of its databases. These databases are integral to their infrastructure, supporting millions of Indonesian users across various online and offline platforms. Percona's extensive experience in database management played a pivotal role in enhancing Bukalapak's database infrastructure, and our expertise was instrumental in scaling Bukalapak's MongoDB databases, significantly improving their stability and performance.

Percona's support and open source software was crucial in optimizing Bukalapak's database performance and uptime. It supported Bukalapak's mission of creating "a fair economy for all" by ensuring seamless, stable operations across its expansive e-commerce and online platforms. Bukalapak relies on Percona for 24x7x365 expert and responsive MongoDB support, and Percona's solutions and tools have been invaluable in meeting customer expectations and achieving business goals.

Ok, I'm in. What's next?

Getting started with Percona for MongoDB is designed to be as effortless and informative as possible. Our software can be used independently, or you can also take advantage of a full range of tools and services designed to monitor, manage, secure, and optimize your database environments. You get the benefits of MongoDB without the drawbacks of proprietary licensing and lock-in, and you can get commercial support and services from Percona if you need us.

Percona provides clear pathways and resources to assist you in getting started, regardless of your goals, be them optimizing your present MongoDB setup or switching from MongoDB Community Edition, MongoDB Enterprise, or MongoDB Atlas to a freely available, enterprise-grade open source version.

Quickstart guide

Our quickstart guides are the perfect first step for those interested. These comprehensive guides are crafted to help you quickly and easily set up and configure the various aspects of Percona software for MongoDB. They offer step-by-step instructions, ensuring a smooth and efficient setup process.

[Percona Distribution for MongoDB Quickstart Guide](#)

[Percona Server for MongoDB Quickstart Guide](#)

[Percona Backup for MongoDB Quickstart Guide](#)

[Percona Operator for MongoDB Quickstart Guide](#)

[Percona Monitoring and Management Quickstart Guide](#)

Support and services

We invite you to visit our MongoDB support and services page for more comprehensive details on the range of **services and support options** for Percona software for MongoDB. Here, you'll find a wealth of information about how Percona can assist you, including everything from everyday maintenance and problem-solving to more intricate activities like enhancing performance and setting up high-availability systems.

Percona for MongoDB

Offering more enterprise-readiness than MongoDB Community Edition and lacking the licensing fees, restrictive agreements, or lock-in associated with MongoDB Enterprise and MongoDB Atlas, Percona software for MongoDB lets you run MongoDB your way, free from corporate limitations.

Free your applications from proprietary software and learn how Percona can help you make the most of MongoDB.

[Learn More](#)

Feature Comparison

[View our feature matrix below](#) to see how Percona software and services for MySQL compares to MongoDB Community Edition, Enterprise Edition, and Atlas.



Percona for MongoDB: Feature value comparison

Percona offers software and services for MongoDB that provide greater flexibility and empower customers to make strategic decisions about their infrastructures. Percona software for MongoDB offers all the features and benefits of MongoDB Community Edition, plus additional enterprise-grade functionality. Percona software for MongoDB is also **source-available and can be used in production without licensing agreements and vendor lock-in.**

These charts compare Percona software and services for MongoDB Community Edition, Enterprise Edition, and Atlas.

Server Features	Backup Features	Advanced Features	Security Features	Monitoring, management, and alerting	Kubernetes Operator	DBaaS	Support and Services
	Percona Server for MongoDB	MongoDB Community Edition	MongoDB Enterprise Advanced	MongoDB Atlas			
Fully compatible with MongoDB Community Server	✓	✓	✓	✓			
Document data store	✓	✓	✓	✓			
Default storage engine	WiredTiger	WiredTiger	WiredTiger	WiredTiger			
In-memory storage engine	✓	!	✓	<ul style="list-style-type: none"> Above M40 sized systems Atlas memory caching providing in-memory capable performance 			
Supported deployment types	On-premises Cloud Hybrid	On-premises Cloud Hybrid	On-premises Cloud Hybrid	Cloud			
Multiple availability zones	✓	✓	✓	✓			
Multiple regions	✓	✓	✓	✓			
Multiple cloud availability	✓	✓	✓	✓			
Redundancy via replica sets	✓	✓	✓	✓			
Built-in replication, up to 50 replica set members	✓	✓	✓	✓			
Automatic failover sharding	✓	✓	✓	✓			

Server Features	Backup Features	Advanced Features	Security Features	Monitoring, management, and alerting	Kubernetes Operator	DBaaS	Support and Services
	Percona Backup for MongoDB	MongoDB Community Edition	MongoDB Enterprise Advanced	MongoDB Atlas			
Open source backup	✓	⚠	⚠	⚠			
Binary database export (logical backup)	✓	✓	✓	✓			
Built-in point-in-time recovery support	✓	⚠	✓	✓			
Physical backup	✓	⚠	✓	✓			
Incremental backup (physical)	✓	⚠	✓	✓			
Backup management interfaces	Percona Backup for MongoDB (CLI) Percona Monitoring and Management mongodump / mongorestore (CLI)	mongodump / mongorestore (CLI)	Ops Manager Cloud Manager mongodump / mongorestore (CLI)	Atlas backups mongodump / mongorestore (CLI)			
Sharded collections restores supported	✓	⚠	✓	✓			
Cluster-to-cluster sync	⚠	⚠	✓	✓			

Server Features	Backup Features	Advanced Features	Security Features	Monitoring, management, and alerting	Kubernetes Operator	DBaaS	Support and Services
	Percona Distribution for MongoDB	MongoDB Community Edition	MongoDB Enterprise Advanced	MongoDB Atlas			
Multiple programming language support	✓	✓	✓	✓			
BI Connector	⚠	⚠	✓	✓			
Live resharding	✓	✓	✓	✓			
Time series collections	✓	✓	✓	✓			
Integrated advanced search	⚠	⚠	⚠	✓			
Advanced operators, functions, and aggregation pipeline	✓	✓	✓	✓			

Server Features	Backup Features	Advanced Features	Security Features	Monitoring, management, and alerting	Kubernetes Operator	DBaaS	Support and Services
	Percona Distribution for MongoDB	MongoDB Community Edition	MongoDB Enterprise Advanced	MongoDB Atlas			
Queryable encryption	Explicit encryption	Explicit encryption	Automatic encryption Explicit encryption	Automatic encryption Explicit encryption			
Data At Rest Encryption	✓	!	✓	✓			
Key management compatibility	Hashicorp Vault KMIP Locally managed key files	!	KMIP Locally managed key files	AWS KMS Google Cloud KMS Azure Key Vault Locally managed key files			
Data-in-transit encryption	SSL/TLS	SSL/TLS	SSL/TLS	SSL/TLS			
Client-Side Field Level Encryption	Explicit encryption	Explicit encryption	Automatic encryption Explicit encryption	Automatic encryption Explicit encryption			
Authentication/ authorization	SCRAM x.509. LDAP Kerberos	SCRAM x.509.	SCRAM x.509. LDAP Kerberos Fine-grained auditing	SCRAM x.509. LDAP Kerberos Fine-grained auditing Field-level redaction			
Auditing	✓	!	✓	✓			
Log redaction	✓	!	✓	✓			
Role-based access control	✓	✓	✓	✓			
FIPS-140 module	✓	!	✓	✓			

Server Features	Backup Features	Advanced Features	Security Features	Monitoring, management, and alerting	Kubernetes Operator	DBaaS	Support and Services
	Percona Monitoring and Management (PMM)	MongoDB Community Edition	MongoDB Enterprise Advanced	MongoDB Atlas			
Open source monitoring	✓	!	!	!			
Configuration	!	!	✓	✓			
Automated patches and upgrades	!	!	✓	✓			
Alerting	✓	!	✓	✓			
Alternative alerting methods	Email Webhooks Messenger integration External tool integration	!	Email HTTPs endpoints Messenger integration SNMP External integrations	Email HTTPs endpoints Messenger integration SNMP External integrations			
Index and schema recommendations	!	!	✓	✓			
Performance Advisor	!	!	✓	✓			
Query Analyzer	✓	!	✓	✓			

Server Features	Backup Features	Advanced Features	Security Features	Monitoring, management, and alerting	Kubernetes Operator	DBaaS	Support and Services
	Percona Operator for MongoDB	MongoDB Community Edition	MongoDB Enterprise Advanced	MongoDB Atlas			
Multi-cloud	✓	!	✓	✓			
Monitoring	Percona Monitoring and Management	!	Ops Manager Cloud Manager	Atlas			
Backup and Restores	Scheduled backups On-demand backups Point-in-time recovery Physical backups Incremental backups through oplog / PITR	!	Scheduled backups On-demand backups Point-in-time recovery	Scheduled backups On-demand backups Point-in-time recovery			
Topologies	Hidden node Arbiter node Replica set Sharded cluster	Replica set	Hidden node Arbiter node Replica set Sharded cluster	Hidden node Arbiter node Replica set Sharded cluster			



PERCONA

percona.com