CHOOSING THE BEST DATABASE FOR YOUR NUTANIX DEPLOYMENT

Nutanix and MariaDB deliver a seamless, scalable and efficient solution for open source database management with flexible deployment options. The joint solution offers a powerful, integrated experience to enable modern development, and reduce both complexity and cost.

What challenges do Nutanix Database Service (NDB) with MariaDB Enterprise Server on Acropolis Hypervisor (AHV) virtual machines solve?

- Application modernization requiring scalability and continuous availability
- High cost of legacy proprietary databases and infrastructure
- Complex development environments, application downtime and lack of infrastructure flexibility

> "By combining Nutanix NDB with MariaDB's powerful open source enterprise database, we can deliver enhanced performance, scalability and cost-efficiency, empowering business to innovate faster and drive growth.
>
> – Michal Lesiczka, Vice President, Business Development, Cloud & Databases Partner Ecosystem at Nutanix

DEPLOYING MARIADB ENTERPRISE SERVER ON NUTANIX

MariaDB Enterprise Server is a premium version of MariaDB Community Server focused on stability and reliability. It includes additional enterprise features such as non-blocking backups and advanced audit capabilities enterprises need to run in production. MariaDB Enterprise Server uses MariaDB MaxScale, an advanced database proxy, to implement enterprise-grade high availability including automatic failover, transaction replay, connection migration, session restore and more. With MariaDB Enterprise Server and MaxScale, application users won't see service interruptions if an infrastructure or database failure happens.

MariaDB Enterprise Server and MaxScale can be deployed anywhere and are ideal for supporting hybrid and multicloud strategies. As part of a solution with Nutanix, deploy MariaDB products:

- As self-managed on AHV
- As self-service database as a service (DBaaS) on Nutanix Database Service (NDB)

While MariaDB Enterprise Server on AHV/Nutanix Cloud Infrastructure (NCI) is managed by the customer, NDB automates database administration and enables developer self-service at a much higher level.
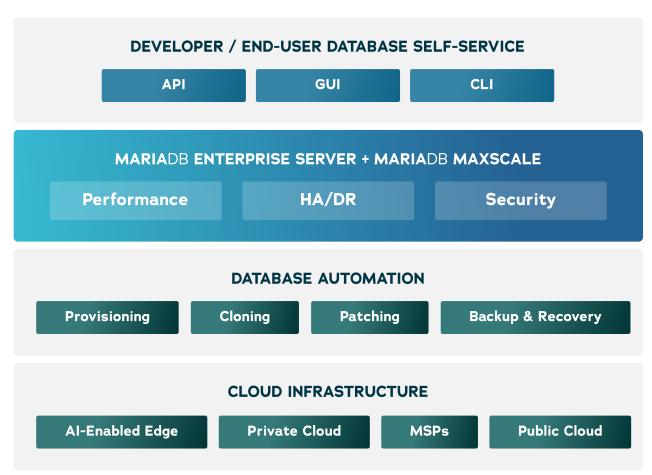
Architecture

MariaDB Enterprise Server **ON** NUTANIX Database Service

DEVELOPER / END-USER DATABASE SELF-SERVICE

| API | GUI | CLI |

MARIADB ENTERPRISE SERVER + MARIADB MAXSCALE

| Performance | HA/DR | Security |

DATABASE AUTOMATION

| Provisioning | Cloning | Patching | Backup & Recovery |

CLOUD INFRASTRUCTURE

| AI-Enabled Edge | Private Cloud | MSPs | Public Cloud |

MARIADB ENTERPRISE SERVER ON NUTANIX AHV: ENHANCED DEPLOYMENT WITH NUTANIX-READY CERTIFICATION

Organizations can deploy MariaDB database products on Nutanix's hyperconverged infrastructure, utilizing it for diverse workloads including transactional and analytical processes, and AI-driven analytics. This integration facilitates innovative business applications both in the cloud and on premises. Deploying MariaDB MaxScale with MariaDB Enterprise Server enhances resilience and performance through features such as load balancing and query caching, fully integrated with Nutanix.

MARIADB ENTERPRISE SERVER ON NDB: STREAMLINED DBMS

NDB automates database lifecycle management across various environments, simplifying database operations and enabling developer self-service. With MariaDB Enterprise Server available on NDB, customers get seamless integration with optimized performance, reliability/availability, enhanced security and built-in protections, as well as simplified management through intuitive tools and automation. This scalable and flexible solution supports dynamic workload adjustments and provides robust support to ensure operational continuity.

WHY MARIADB?

High Performance & Stability

With traditional self-managed IT infrastructure, if you need higher performance from your database your only option is to scale vertically, by upgrading hardware. Further, you can offload only a small portion of read queries to a single available read replica. MaxScale greatly improves horizontal scalability for Nutanix customers, allowing you to offload up to 100% of read queries to an unlimited number of read replicas. MariaDB Enterprise Server with MaxScale offers:

- Unlimited performance scalability
- Non-blocking backups
- Critical bug fixes
- Backporting of critical new features to older stable releases
- Monitoring to help you prevent your Nutanix instances from becoming sluggish over time

High Availability & Disaster Recovery

Without MaxScale, you may experience occasional outages. With MaxScale, however, you get an array of powerful HA and DR features for continuous uptime – such as clustering, multiple read replicas and automatic failover.

- Automated failover – no Nutanix service restarts, no service interruptions
- DoS protection
- Point-in-time recovery and rollback – much faster than restoring from backup

Security & Compliance

MariaDB software is engineered for security, with encrypted buffers and encryption of data both at rest and in motion. Only the enterprise version of MariaDB Server comes with security technical implementation guide (STIG) compliance.

MariaDB Expert Support

Nutanix collaborates with MariaDB in the event support issues are determined to involve the database. Our support teams have direct lines to each other so that issues can be routed and resolved by the appropriate organization. Plus, MariaDB support includes proactive, consultative guidance on questions specific to your deployment. With a MariaDB Enterprise subscription, you can expect:

- 30-minute, 24x7 SLA for production outages
- Unlimited consultative support from MariaDB engineers
  - HA/DR best practices
  - Security best practices
  - Replication troubleshooting
  - Performance troubleshooting

About MariaDB

MariaDB is a new generation database company whose products are used by companies big and small, reaching more than a billion users through Linux distributions and have been downloaded over one billion times. Deployed in minutes and maintained with ease, leveraging cloud automation, our database products are engineered to support any workload, any cloud and any scale – all while saving up to 90% of proprietary database costs.

If Nutanix application development is mission-critical to your organization, you need MariaDB's enterprise database solutions.

Contact MariaDB today.

Learn more about MariaDB on Nutanix.