

Bring Efficiency, Agility, and Availability to Your Oracle Environment

KEY FEATURES

Nutanix Enterprise Cloud delivers a turnkey solution for Oracle databases and applications. Run Oracle alongside other virtualized applications and benefit from:

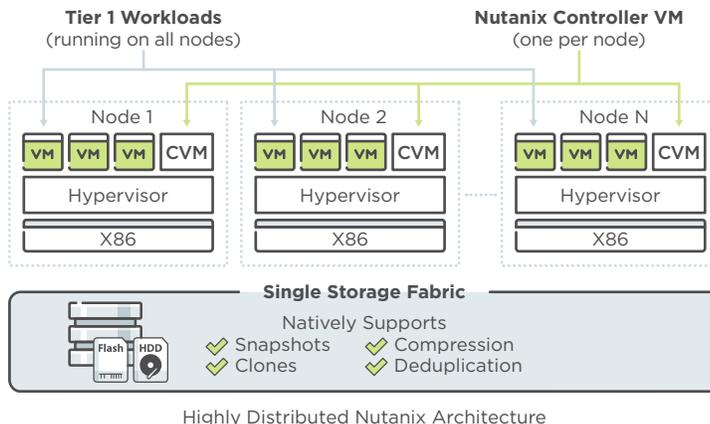
- **Higher performance and scalability:** Start small and scale databases and infrastructure as needs grow enabling rapid database provisioning and database as a service, without the concessions of traditional infrastructure.
- **Improved availability:** Keep key applications protected and running with frequent, easy to restore backups; 1-click, non-disruptive upgrades; affordable, simple disaster recovery; and VM-centric operations.
- **Faster deployment and reduced operational complexity:** Get up and running in just hours and reduce overhead using simple, yet powerful management and APIs, unprecedented performance and operational insight, and advanced application automation and orchestration.

Oracle databases are undergoing a metamorphosis in today's datacenters. Database administrators are increasingly looking to virtualization in private and hybrid cloud approaches to help handle rapid performance and data growth, consolidate datacenter footprint, control costs, and simplify and accelerate day 2 operations, like upgrades, provisioning and dev/test. They are also realizing that the successful move to virtualization and cloud requires the right software, server and storage architecture, without compromising performance and availability service levels. Not all Oracle database deployments are virtualized though, as Oracle RAC on bare metal servers is still used in certain cases. The infrastructure to support Oracle deployments must be able to handle both virtualized and bare metal RAC without additional silos and must deliver on the performance and availability needs of Oracle-based workloads, while remaining simple to deploy, manage, and scale.

WEB-SCALE INFRASTRUCTURE FOR ORACLE

Whether upgrading existing infrastructure or deploying new environments, Nutanix Enterprise Cloud is the ideal solution for Oracle deployments.

- Consolidate Oracle databases and VMs on to a single software-defined platform built on hyperconverged infrastructure with excellent performance typical of deployments with local storage;
- Provide the same performance and management benefits hyperconverged infrastructure delivers for virtualized Oracle deployments to [Oracle RAC running on bare metal servers through Acropolis Block Services \(ABS\)](#);
- Remove the complexity and reduce the costs of traditional storage, without giving up the availability, scalability, and manageability of shared architectures;
- Eliminate planned downtime and protect against unplanned issues for continuous availability; and
- Keep pace with rapidly growing business needs, scaling on demand a node at a time without the upfront investments or disruptive fork-lift upgrades.



ORACLE DEPLOYMENT AND EXPANSION MADE EASY

Deployment and scaling of new Oracle instances on dedicated hardware is cumbersome and time consuming, often requiring extensive hardware and software installation and configuration. Nutanix Enterprise Cloud OS takes the pain out of the scaling process, making your operations much more agile. With a template created in advance, all you have to do is clone the template and roll it out in a new VM. Time to provision drops from hours to minutes.

[Nutanix Calm](#) can make the process even easier. Calm simplifies the set-up and management of custom databases and applications by incorporating all elements, including relevant VMs, configurations and related binaries, into an easy-to-use blueprint, making deployment and management automated and repeatable.

SIMPLICITY, PERFORMANCE, AND AGILITY

Database performance has long been the primary criteria for selecting server and storage infrastructure. Multicore processors and large system memory capacity have now moved the performance conversation away from compute to the storage system. Storage solutions supporting virtualized Oracle VMs need to handle a dynamic mix of transactional (OLTP) and analytical (OLAP) databases. This requires efficiently delivering both random and sequential read/write performance for all databases across sizable amounts of active data.

Nutanix Enterprise Cloud brings the benefits and economics of web-scale architectures from companies such as Google, Facebook, and Amazon to the enterprise, through its Enterprise Cloud OS. This 100% software-defined approach works with AHV (the included Nutanix hypervisor), VMware vSphere, Oracle VM, and Microsoft Hyper-V. It takes less than 4 hours to deploy and delivers low-latency performance for virtualized Oracle database and application workloads. The Nutanix Enterprise Cloud Platform leverages storage controller VMs that run on each Nutanix node to form a single shared storage pool that is accessible by all VMs in the system. There is no need to deal with the complexity of managing separate storage systems with the burdensome tasks of zoning, provisioning, networking setup, and managing VMs placement.

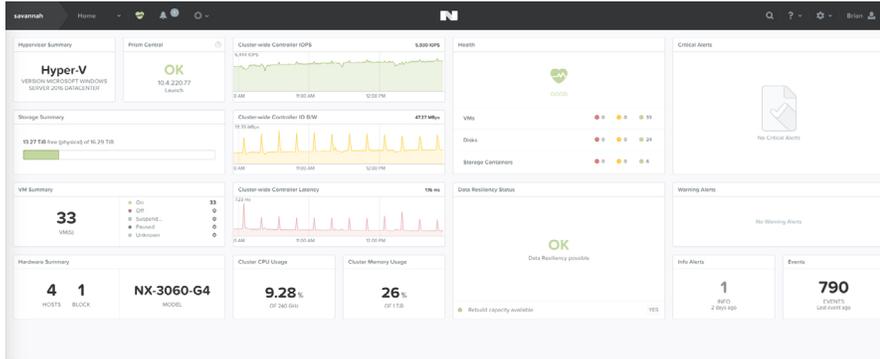
For high performance, Nutanix Enterprise Cloud serves active data associated with local Oracle VMs from local storage, including local SSDs. It also enables local VMs on a Nutanix node to access storage across the platform which can be hybrid or all-flash depending on your needs. This strategy eliminates over-provisioning by delivering the right combination of high random read/write I/O and excellent sequential throughput for critical transactional and analytical workloads. Additional capacity optimization is done via features such as thin provisioning, deduplication, and inline compression. Growing an environment with the patented Nutanix architecture is as simple as non-disruptively adding additional nodes to the existing system. This process takes just minutes and results in linear scaling of performance and capacity.

ENHANCING AVAILABILITY

To ensure IT organizations are delivering on their promise of protecting data and keeping critical Oracle databases and applications available, they need advanced capabilities embedded in their infrastructure that complement existing Oracle features. The infrastructure should be able to take frequent snapshots of the database including data, control, and log files, and replicate them to secondary systems for disaster recovery, without requiring DBAs to constantly monitor and manage the process.

Because the Nutanix Enterprise Cloud Platform is built for virtualization, all management is done at the VM and virtual disk level. Using VM-granular policies for snapshot-based backups, Nutanix complements Oracle RMAN and Data Guard. For backup and archiving, months and years worth of space-efficient snapshots can be stored locally, on a secondary cluster, or in the cloud. Policies can be set to efficiently replicate VMs over the WAN to another system to protect against more catastrophic disasters.

Nutanix Enterprise Cloud also helps accelerate time to production, improve software quality, and speed up reporting for test/development and reporting environments. DBAs can create and run full-functioning copies of Oracle environments, including the database, in minutes using VM-level cloning or replication on the same or separate system. This gives individuals their own high-performance environment for testing, development, quality assurance, reporting, or training.



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Learn more about the details and benefits of running Oracle on Nutanix by reading:

- [IDC Case Study: Global Gaming Company Runs Oracle on Nutanix](#)
- [Nutanix Solution Note on Dev/Test for Oracle](#)
- [Best Practices Guide for Oracle on Nutanix](#)
- [Visiting www/Nutanix.com/oracle](http://www.Nutanix.com/oracle) for more resources

Partner for Success

Nutanix offers a wide range of services, including Oracle deployment, disaster recovery design, as well as custom services tailored to specific needs. To meet interoperability, performance, and support needs, Nutanix collaborates closely with Oracle, Microsoft, and VMware on product validation, support, and integration efforts. Nutanix is on the Oracle Hardware Certification List for Oracle Linux and Oracle VM and has access to TSA.net and compliments Oracle Support for a fully supported and validated end-to-end solution across different hypervisors.

Nutanix is committed to your success. Contact our Nutanix representative or authorized reseller for more information and continue the conversation on the Nutanix Next online community (next.nutanix.com).

Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications. Learn more at www.nutanix.com or follow us on [Twitter @nutanix](https://twitter.com/nutanix).

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