

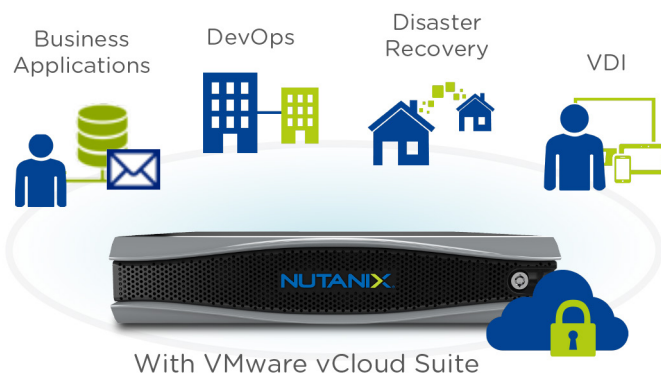
Successful Clouds are Built on Web-scale Converged Infrastructure

The explosion of virtualized workloads in today's datacenters has given rise to the need for a more intelligent approach to virtualization and infrastructure management. VMware vCloud® suite with VMware vRealize Automation on Nutanix Web-Scale Converged Infrastructure helps deliver IT organization deploy scalable and flexible multi-platform cloud deployments for a variety of use cases including Infrastructure as a Service, Platform as a Service, and Business Continuity and Disaster Recovery.

Infrastructure up on which cloud service delivery platforms, like vRealize Automation are deployed need to be able to support a diverse mixture of workloads and scale without requiring significant effort or re-engineering. Traditional infrastructure especially SANs does not fit this model because of the reliance on overprovisioned resources for scaling and operational overhead associated with provisioning and scaling.

Web-Scale meets the Enterprise

The Nutanix solution is different. With Nutanix, web-scale converged infrastructure you can seamlessly scale compute and storage together in a single platform on a node-by-node basis as well as support multiple workloads. Together with VMware vRealize Automation, Nutanix delivers a complete cloud in a box.



At the heart of the Nutanix platform is our patented Nutanix Distributed File System (NDFS) deployed through the Nutanix Controller VM. NDFS uses a software-defined, shared-nothing, scale-out approach to storage that eliminates the need for you to deploy a separate networked storage such as a SAN along with its performance bottlenecks and scalability limitations.

On the deployment and scalability front, NDFS will enable you to:

- Deploy a complete solution in hours versus the days or weeks it takes with traditional SAN and server architectures.
- Scale infrastructure the same way you would scale your business—one node at a time—without complex upfront estimations that can result in wasted capacity.
- Expend practically no effort, and incur zero end-user or application downtime when you need to dynamically grow or shrink your environment.
- Do away with storage bottlenecks by leveraging local flash for individual VMs IO—so no more noisy neighbors across your vSphere cluster.

NDFS also delivers the performance your workloads including tier 1 applications need with intelligent distributed data tiering, ensuring most frequently accessed data is available in the SSD or cache tier. NDFS also simplifies management by exporting a dynamically scalable NFS datastore. With Nutanix, you no longer need to deal with individual LUNs and volumes and their corresponding storage limits and management overhead.



Key Benefits

Make your transition to the cloud a simple reality with Nutanix web-scale converged solutions for VMware vCloud suite and vCloud Automation Center. Run all of your virtual desktops, critical applications, and development operation environments on one platform.

- **Modular incremental scale:** Start small and scale to accurately meet the data and compute requirements of your business, matching supply with demand while minimizing upfront capital expenditure and overprovisioning.
- **Deliver performance for all:** Service all of your virtual desktops, critical applications, and development operation environments on one converged platform with excellent VM performance using both local and remote flash as needed.
- **Be agile without the complexity:** Support on-demand provisioning of VMs using API integration with vCenter and vCAC and reduce administrative overhead by hundreds of hours per year using intuitive consumer-grade management, VM-centric operations, and unprecedented performance insight.
- **Improve availability:** Cost-effectively meet service level agreements by keeping key VMs protected and running, with innovative Nutanix VMCaliber backups and disaster recovery, non-disruptive upgrades, and proactive 24x7 support with Nutanix Pulse.
- **Be successful with the right partner:** Benefit from detailed and validated reference architecture backed by world-class services, education, and proactive support to reduce time to production and operate at peak efficiency.

vmware™

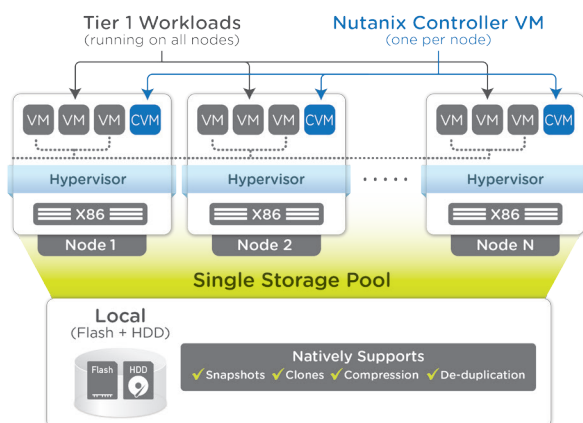
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Highly Distributed Nutanix Architecture

Adopt a pay-as-you-grow model with a Web-scale Converged Infrastructure

Whether our customers require a cloud based on on-premise solution, through our partnership with Nutanix we can now deliver web-scale datacenters with almost infinite scalability and predictable performance”

– Wesley Mezzone,
Director at Mason IT

MASON IT

The Cloud Made Simple

Nutanix web-scale converged platforms support VMware vSphere storage APIs for Array Integration (VAAI). This means you can offload cloning of individual VMs through vCenter and vCloud suite using native Nutanix VMCaliber snapshot and cloning functionality. Your team can create efficient, high performance clones of VMs as the foundation for fast and easy provisioning. You can also leverage efficient Nutanix VMCaliber replication to quickly deploy high-performance clones of VMs across multiple Nutanix systems for tasks such as development and testing.

Your team can also leverage the Nutanix Windows Powershell commandlets and Prism REST APIs to create your own custom scripts for tasks such as automated deployment, reporting, or even failover. Nutanix also supports integration with vRealize Automation and vCloud Orchestrator, which empowers your team to deliver platforms, virtual machines, and infrastructure as a service.

The Nutanix Prism management framework intuitively organizes and presents information at-a-glance for one or multiple Virtual Computing Platforms. Prism provides actionable information on performance, utilization, and events for individual VMs and all aspects of the infrastructure. You can also take advantage of built-in analytics to correlate related events, enabling you to troubleshoot complex problems in minutes versus hours or days with traditional methods.

Availability for All

The software-defined storage approach of NDFS uses a shared-nothing model to eliminate any single point of failure in your infrastructure. It eliminates the chance of data loss with checksums and tunable redundancy within a Nutanix system. Combine this with Volume Shadow copy Service (VSS) support and the Nutanix VMCaliber functionality including Nutanix SRA for VMware Site Recovery Manager and you eliminate the need for secondary systems for disaster recovery and business continuity.

Nutanix capacity optimization functionality, comprised of compression and deduplication, leverages resources across the entire Nutanix system to make backup, DR, compliance, and long-term archiving practical and affordable.

Getting Started

Nutanix is committed to making your journey to the cloud with VMware a success with validated reference architectures and a variety of services delivered by Nutanix or our partner network to help you assess, plan, and deploy your cloud.

For more information about our solutions for VMware, visit www.nutanix.com or contact your local Nutanix representative or authorized reseller.

