NUTANIX Data Sheet

Nutanix Virtual Computing Platform

- Converged compute and storage appliance runs virtual workloads out-of-the-box
- Eliminates the SAN to reduce costs and improve IT agility
- Incorporates the same distributed software architecture powering Google and other public cloud infrastructures
- Delivers linear and seamless scale-out with pay-as-you-grow flexibility

The Nutanix Approach

Designed with a focus on simplicity

The Nutanix Virtual Computing Platform radically simplifies the deployment of virtual machines (VMs). The convergence of compute and storage resources into a single integrated platform enables application and virtualization teams to quickly and simply deploy new VMs–with no configuration of back-end storage systems. The elimination of expensive and complex SANs reduces both operating and capital costs. With an unrivaled ability to run VMs out of the box, Nutanix delivers an easy, modular approach to building modern datacenters.

Software-Defined Architecture

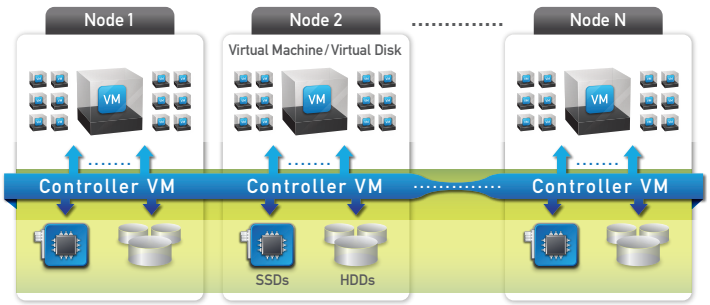
The Nutanix Virtual Computing Platform is built on an advanced, highly-distributed software architecture that provides both high performance and massive scale-out capabilities while running on best-in-class commodity hardware to maximize affordability. The Nutanix Distributed File System (NDFS) connects storage, compute resources, controller logic, and hypervisor to deliver a fully integrated system that can run any virtual workload at any scale.

The architecture is purpose built for virtualization and supports popular technologies including live VM migration, high availability (HA), distributed resource scheduling (DRS), and fault tolerance. At the same time, the Nutanix software architecture is hypervisor agnostic, supporting VMware vSphere and KVM along with industry-standard management systems.

Performance that scales with your business

Each 2U Nutanix appliance includes up to four high-performance server nodes, each integrating best-in-class Intel CPUs, local storage, and server-attached flash. Nutanix nodes easily combine to form a unified cluster that abstracts and pools resources from all nodes and presents them to VMs in the cluster. For the fastest possible performance, each node contains multiple tiers of persistent storage and intelligently keeps the most frequently accessed 'hot' data in the highest performing flash tier.

Additional Nutanix nodes can be added seamlessly–with no downtime–to linearly scale performance and storage. Nutanix's flexible pay-as-you-grow design makes it easy and cost effective to scale enterprise datacenters to keep pace with business.



Solutions

The Nutanix Virtual Computing Platform is an ideal solution for nearly any enterprise workload. Powerful appliance offerings, coupled with multi-hypervisor support, enable a single appliance to support multiple deployment use cases in a single Nutanix cluster.


VDI / End User Computing


Big Data


Disaster Recovery

Enterprise Branch Office

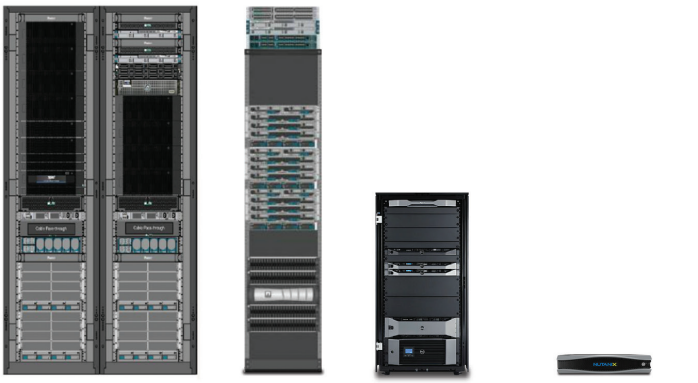

Private Cloud / Server Virtualization

The Nutanix Technology

True Convergence

The Nutanix Virtual Computing Platform provides native convergence of compute, memory, and storage resources in a single appliance. Unlike early so-called 'convergence' approaches that simply bundled separate storage, server, and network devices into a single rack, the Nutanix solution provides an easy-to-deploy appliance that can be installed in less than 30 minutes. Datacenter managers benefit from faster time to value, lower costs, and greater datacenter simplicity.

Size Comparison



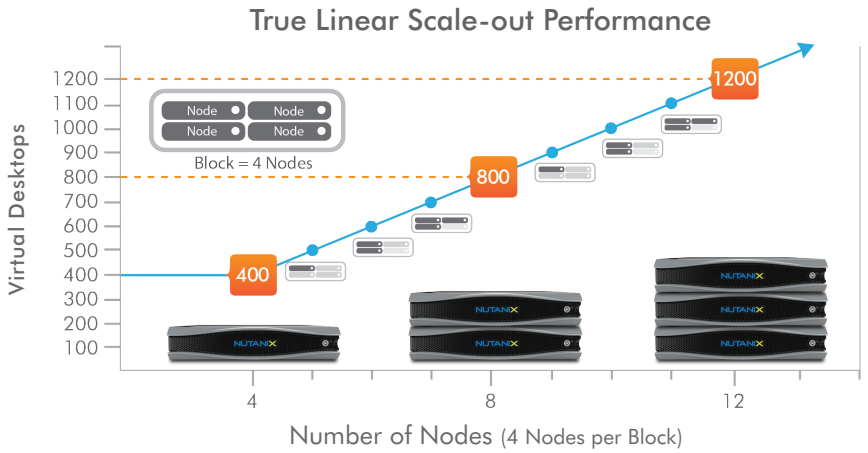
VCE vBlock 300 2X 15U | Cisco/NetApp Flexpod 15U | Dell vStart 50 "Baby" Cloud 12U | Nutanix Virtual Computing Platform 2U

Predictable Scalability

Scale at the pace of your business—one node at a time

Nutanix solutions deliver nearly unbounded and linear scale-out capabilities, making it easy to move from early-stage proof-of-concept testing to full production. Dynamic clustering enables compute and storage to scale one node at a time, eliminating the need to overprovision the infrastructure. This simple building block approach delivers unrivaled predictability when forecasting future datacenter costs and equipment requirements. Nutanix takes the guesswork out of datacenter planning.

True Linear Scale-out Performance



Native Disaster Recovery (DR)

The Nutanix Virtual Computing Platform delivers native back-up and replication capabilities for any hosted VM. Nutanix provides VM and file-level DR that is easily managed via built-in run-book automation. All data is de-duplicated before transfer, and then transmitted with byte-level granularity for maximum efficiency and space savings. The Nutanix n-way architecture supports both site-to-site and hub-and-spoke architectures for the greatest possible flexibility.

Benefits at a Glance

Radically Simplified IT and Dramatically Lower TCO

- Turnkey solution: Out-of-the-box compute and storage capabilities along with support for industry-standard hypervisors drives deployment time to under 30 minutes.
- Virtualization simplicity: One-time configuration of storage delivers automatic support to all VMs in a cluster–eliminating time-consuming management of back-end storage systems.
- Easy management: At-a-glance visibility across all compute and storage resources streamlines on-going management.
- Reduced datacenter footprint: Natively converged architecture delivered in a 2U appliance dramatically reduces datacenter space, power and cooling requirements.
- Global: Affordable platforms for any enterprise including branch offices. Flexibility to scale compute and storage independently.

Enterprise Class Data Management

- Capacity Optimization: Zero-overhead cloning and thin provisioning along with in-line and off-line compression provide 10x-50x data reduction.
- Converged Backups: Instant backup and recovery of VM data on the cluster without requiring external backup appliance.
- Business Resiliency: Highly fault tolerant architecture designed for VM high availability in case of local failures or site-wide disaster.
- Performance: Local solid-state drives (SSDs), with data tiering to hard disks, provides SSD performance at the cost of hard drives.
- Scalability: Scale-out architecture removes the complexity of re-architecting future deployments, enabling grow-as-you-go virtualization that delivers long-term investment protection.

Next Steps

- Visit www.nutanix.com for more information.
- Follow us @nutanix
- Email learnmore@nutanix.com to find out how to get started today.