Nutanix Virtual Computing Platform

The Nutanix Virtual Computing Platform is an extensible, appliance-based server with built-in enterprise storage to power any virtual machine (VM). Nutanix converges server and storage resources into an integrated platform so that datacenter capacity can be easily expanded – one node at a time – delivering linear and predictable scale-out with pay-as-you-grow flexibility.

Nutanix embodies many of the advanced software technologies that power leading web-scale and cloud infrastructures, such as Google, Facebook, and Amazon – but is engineered for all enterprises, regardless of size.

Virtual Computing Platform

- **CONVERGED**: Seamlessly integrates server and storage resources
- **SOFTWARE DEFINED**: Delivers all services via software, without specialized hardware
- **SERVER-ATTACHED FLASH**: Merges flash-based storage with compute for fast performance
- **SCALE OUT**: Increases performance linearly by adding capacity one node at a time
- **HYBRID**: Delivers a unified data fabric supporting all hypervisors and all clouds

Designed to simplify IT

The Nutanix Virtual Computing Platform radically simplifies the deployment of VMs. Converging compute and storage into a single integrated platform enables application and virtualization teams to quickly and simply deploy new VMs. The Nutanix Distributed File System (NDFS) runs on each Nutanix platform, aggregating direct-attached storage resources (hard disk drives and flash) across all nodes. This pooled storage is made available to all hosts, replacing the need for traditional centralized storage.

Eliminating 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.

Ideal for ALL virtualization projects

The Nutanix Virtual Computing Platform is an ideal solution for nearly any enterprise workload. Multiple appliance choices with different price-performance profiles, coupled with multi-hypervisor support, make Nutanix perfect for running different workloads at high performance, in a unified Nutanix cluster.

Single-pane-of-glass management

The Nutanix Prism management framework delivers an intuitive graphical user interface (GUI). All information is organized and presented via elegant touch points to facilitate easy consumption of operational data. Prism provides the ability to define and manage a complete converged infrastructure from nearly any device and includes a programmatic REST-based API for integration with third-party cloud management systems.

Modern Enterprise Datacenter

- **Distributed Architecture**
  - STORAGE + COMPUTE IN ONE APPLIANCE
  - EXTENSIBLE | VM-CENTRIC
  - 100% SOFTWARE-DEFINED
  - ELEGANTLY SIMPLE
- **Fast Deployment**
  - Predictable Performance
  - Scale-out One Node at a Time
  - One Platform to Manage
Use Cases

VDI / End User Computing
Nutanix platforms deliver a single-box VDI solution with integrated server and enterprise-class storage.
- Plug-and-play appliance ready to run VMware Horizon Suite, Citrix XenDesktop and Citrix XenApp
- Local storage with server-attached flash for fast VDI read and write operations
- Predictable scale-out architecture to seamlessly expand VDI pilots to full production deployment
- Support for all VDI users, including persistent and graphics intensive desktops

Private Cloud / Server Virtualization
VCP is a high-performance, scalable infrastructure for nearly all ISV and custom applications. Scale-out architecture enables private clouds to be expanded one platform at a time.
- Turnkey platform for running popular applications, such as Microsoft SQL Server, Exchange and Sharepoint
- Distributed architecture provides storage quality of service (QoS) for multi-workload and multi-tenant environments
- Delivers linear scalability, high performance and availability
- Hypervisor agnostic provides choice of virtualization platform

Big Data
Advanced data tiering technology, along with server-attached flash, enables virtualized big data applications to run faster than bare metal deployments. Scalable infrastructure for applications like Splunk Enterprise can be up and running in less than a day.
- Applications run adjacent to other services with no performance degradation
- Dramatically reduces rack space and equipment costs
- Scales to any size deployment

Disaster Recovery
Provides native per-VM replication for simple and high-performance back up. Flexible n-way architecture supports site-to-site and hub-and-spoke DR architectures.
- Efficient per-VM management and data replication
- All data de-duplicated and transmitted with byte-level granularity for maximum replication efficiency
- Storage Replication Adapter (SRA) supports VMware Site Recovery Manager (SRM)
- Supports third-party run book automation solutions

Enterprise Branch Office
Affordable, small footprint appliances are ideal for powering nearly any branch office service, including local apps, VDI, file and print services, DHCP and DNS services, WAN optimization and security-focused virtual appliances.
- Standardized infrastructure can be rapidly deployed to any remote or branch office location
- Runs all branch office applications in a single 2U appliance
- Affordable entry-level platforms for small enterprise locations

Business Benefits
- Predictable infrastructure costs
  Linear scale-out architecture makes it easy to forecast IT requirements and project costs
- Increased datacenter efficiency
  Single infrastructure runs all applications at high performance – eliminating IT silos
- Lower CAPEX/OPEX
  Integrates server and storage to lower datacenter equipment and power/cooling costs
- Pay-as-you-grow economics
  Enables datacenter growth to match demand by adding resources on demand
- Reduces IT risk
  Allow new applications to be developed with minimal upfront investment and simplified IT management

Technical Benefits
- Simplify datacenter architectures
  Datacenter building block eliminates complex and costly SAN/NAS systems
- Drive maximum performance
- Efficiently scale the datacenter
  Expand infrastructure one node at a time to eliminate overprovisioning. Independently scale server and storage resources to match workload demands.
- Support all virtualization projects
  Hypervisor agnostic technology supports VMs running on vSphere, Hyper-V and KVM. Enables popular hypervisor features, including HA, DRS and more.
- Provide Enterprise-class storage
  Software-delivered storage services include snapshots, clones, compression, de-duplication, thin provisioning and more

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