

# Datasheet

## Nutanix Enterprise Cloud on PRIMERGY

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### Nutanix Enterprise Cloud on PRIMERGY

A multi-cloud, multi-hypervisor platform that includes all the hardware and software to simplify procurement and deployment by using hyper-converged building blocks. It leverages high performance, energy-efficient FUJITSU PRIMERGY standard x86 servers and the software-defined compute, virtualization and storage technology in the Nutanix Acropolis cloud OS, Prism management and Calm orchestration. The result is reduced complexity and vastly superior TCO from this multi-cloud infrastructure environment.

### Need for speed

Nutanix Enterprise Cloud on PRIMERGY provides support for industry-leading hypervisors, including the built-in Nutanix AHV hypervisor in combination with high speed flash disk devices and high-throughput, low-latency networking technology. You can therefore set up a high-performance, responsive virtual IT infrastructure that provides consistent IOPS with sub-millisecond response times. In all-flash or hybrid disk configurations, Nutanix Enterprise Cloud on PRIMERGY easily exceeds 250,000 IO Operations per Second (IOPS).

### Protect your business

Built-in resiliency handles drive, server, or component failures – delivering continuous availability. If hardware fails, just swap it out; the software heals itself, with no complicated management steps.

### Grow as you go

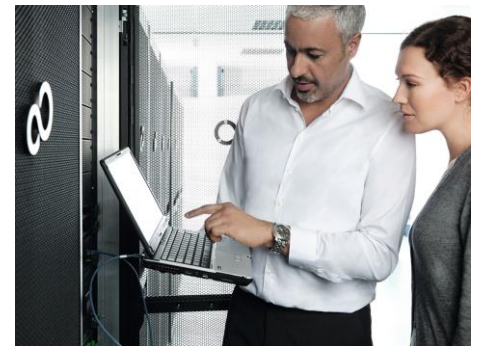
Scale your environment to an endless number of systems and unlimited storage. To scale out, simply add more system nodes. Nutanix Enterprise Cloud on PRIMERGY will automatically onboard new nodes and begin using them.

### Simplify infrastructure setup

Once you have the systems mounted and cabled in a rack, the Linux or Windows operating system installed, and networking configured, you're looking at under 15 minutes to get the cluster configured.

### Simplify infrastructure management

No specialized skill or expensive training is required – perfect for environments such as remote or branch office locations with limited IT staff to even the most demanding enterprise data centers. Integrated load balancing automatically migrates overly busy VMs to other system nodes in the cluster to ensure service levels are consistent. The Nutanix Prism management tool provides continuous built-in monitoring and alerting, and APIs make it easy to collect rich, cluster-wide performance and capacity metrics. Nutanix Calm application lifecycle management and cloud orchestration accelerates application deployments into private or public cloud environments.



### Hardware advantages

Nutanix Enterprise Cloud on PRIMERGY is fully tested and delivered on a high-performance and energy-efficient server platform for multiple leading hypervisor cluster environments – FUJITSU Server PRIMERGY powered by Intel® Xeon® processors. As well as excellent virtualization performance, the servers deliver the best economics in terms of density, energy consumption, heat dissipation and operating costs. In addition, Fujitsu provides intelligent and innovative system management solutions providing all the functions for failsafe, flexible and automated 24x7 server operations.

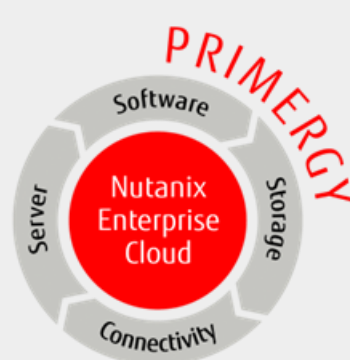


# Features and benefits

Main features	Benefits
Improve storage efficiency	Unique innovations offer better space and performance trade-offs than classic RAID configurations. Erasure coding and advanced compression deliver up to 4x greater storage efficiency.
Reduce storage costs	Nutanix Enterprise Cloud on PRIMERGY uses on-board storage local to each node. This reduces costs and eliminates the need for extra tools and training for managing complex external SAN infrastructures.
Flexible choice of leading hypervisors optimizes cost of virtualization	Customers can choose their preferred hypervisor ranging from the built-in Nutanix AHV to VMware ESXi to Microsoft Hyper-V hypervisors. Customers have the option to also switch between hypervisors with a single-click migration.
Save floor space, power and cooling	The convergence of compute and storage resources in an industry-standard server reduces your infrastructure footprint, saves floor space, power and cooling expenses.
More time for value-added activity	Since server and storage management are consolidated, you can move valuable staff resources from infrastructure related management tasks to activities that create business value.

Acropolis Cloud OS data services, Prism management, and Calm orchestration
Nutanix AHV, VMware ESXi or Microsoft Hyper-V (phase 2)
<b>PRIMERGY RX</b>
Network connectivity (10GbE or 25GbE)



# Reasons to invest in Nutanix Enterprise Cloud on PRIMERGY

## Get fast time to value

Mitigate risk with turnkey factory integrated delivery and automated start up and benefit from 61% time savings to deploy, manage, and support.

## Enjoy high application performance

Get maximum performance with Fujitsu standard x86-servers delivering the most powerful virtualization platform leading 16 out of 21 VMmark benchmark categories.

## Unify infrastructure management

Get a centralized view of both the physical and logical infrastructure across multiple nodes, clusters and clouds – from hardware device level to network topology to virtual machines.

## Protect your business

Ensure your data is secure with a system that meets the most demanding government and commercial security standards. Achieve peace of mind with built-in automated security monitoring and self-healing.

## Reduce infrastructure costs

Profit from hyper-converged infrastructure using local storage with multi-hypervisor support and reduce costs for maintaining a complex external SAN infrastructure.

## Eliminate unplanned downtime

Built-in resiliency handles compute, storage, or network component failures – delivering 97% fewer unplanned outages.

## Increase network security

Get fully integrated physical and virtual networking and higher levels of security by leveraging micro-segmentation.

## Grow as you go

Get non-disruptive linear scalability for an endless number of systems, and an unlimited amount of raw storage.

## World-class support

Get 24/7 support for the complete hardware and software stack with a single point of contact.

## More time for value-added activity

Remove focus on maintaining infrastructure and move valuable staff resources to activities that create business value.

Learn more about Nutanix Enterprise Cloud on PRIMERGY:

[www.nutanix-on-primergy.solutions](http://www.nutanix-on-primergy.solutions)



# Technical Details

Hardware	XF8055 (Small Hybrid)	
Rack Infrastructure		PRIMECENTER M2 Rack 42U 1200x800
Compute Nodes	Chassis	PRIMERGY RX2540 M4 (LFF)
	CPU Options	2x Intel Xeon Silver 4114 10C 2,20GHz
		2x Intel Xeon Silver 4116 12C 2,10GHz
	Memory Options	up to 16x 32GB 2Rx4 DDR4-2666 R ECC (256, 384, or 512GB)
		12x 64GB 4Rx4 DDR4-2666 3DS ECC (768GB)
	HDD Options	up to 8x HD SAS 12G 2TB 7.2K 512e HOT PL 3.5' BC (up to 16TB)
		up to 8x HD SAS 12G 4TB 7.2K 512e HOT PL 3.5' BC (up to 32TB)
		up to 8x HD SAS 12G 6TB 7.2K 512e HOT PL 3.5' BC (up to 48TB)
	SSD Options	SSD SATA 6G 480GB Mixed-Use 3.5' H-P EP (2 or 4 drives, 960 or 1920 GB, 3DWPD)
		SSD SATA 6G 960GB Mixed-Use 3.5' H-P EP (2 or 4 drives, 1920 or 3840 GB, 3DWPD)
SSD SATA 6G 1.92TB Mixed-Use 3.5' H-P EP (2 or 4 drives, 3.84 or 7.68 TB, 3DWPD)		
SSD SAS 12G 800GB Write-Int. 3.5" H-P EP (2 or 4 drives, 1.6 or 3.2 TB, 10DWPD)		
SSD SAS 12G 1.6TB Write-Int. 3.5" H-P EP (2 or 4 drives, 3.2 or 6.4 TB, 10DWPD)		
Boot device		1x SSD SATA 6G 150GB M.2 N H-P
LAN Options		up to 4x PLAN EP X550-T2 2x10GBASE-T
		up to 2x PLAN EP MCX4-LX 25Gb 2p SFP28 LP
SAS Controller		PSAS CP403i (flashed 400i)
Power Supplies		2x Modular SV 800W platinum H-P
Networking	Switches	2x Brocade VDX6740T, 24x 10GBase-T

Hardware	XF8055 (Medium Hybrid)	
Rack Infrastructure		PRIMECENTER M2 Rack 42U 1200x800
Compute Nodes	Chassis	PRIMERGY RX2540 M4 (LFF)
	CPU Options	2x Intel Xeon Silver 4116 12C 2,10GHz
		2x Intel Xeon Gold 5120 14C 2.20 GHz
		2x Intel Xeon Gold 6130 16C 2.10 GHz
		2x Intel Xeon Gold 6140 18C 2.30 GHz
	Memory Options	up to 16x 32GB 2Rx4 DDR4-2666 R ECC (256, 384, or 512GB)
		12x 64GB 4Rx4 DDR4-2666 3DS ECC (768GB)
	HDD Options	up to 10x HD SAS 12G 2TB 7.2K 512e HOT PL 3.5' BC (up to 20TB)
		up to 10x HD SAS 12G 4TB 7.2K 512e HOT PL 3.5' BC (up to 40TB)
		up to 10x HD SAS 12G 6TB 7.2K 512e HOT PL 3.5' BC (up to 60TB)
SSD Options	SSD SATA 6G 480GB Mixed-Use 3.5' H-P EP (2 or 4 drives, 960 or 1920 GB, 3DWPD)	
	SSD SATA 6G 960GB Mixed-Use 3.5' H-P EP (2 or 4 drives, 1920 or 3840 GB, 3DWPD)	
	SSD SATA 6G 1.92TB Mixed-Use 3.5' H-P EP (2 or 4 drives, 3.84 or 7.68 TB, 3DWPD)	
	SSD SAS 12G 800GB Write-Int. 3.5" H-P EP (2 or 4 drives, 1.6 or 3.2 TB, 10DWPD)	
	SSD SAS 12G 1.6TB Write-Int. 3.5" H-P EP (2 or 4 drives, 3.2 or 6.4 TB, 10DWPD)	
Boot device		1x SSD SATA 6G 150GB M.2 N H-P
LAN Options		up to 4x PLAN EP X550-T2 2x10GBASE-T
		up to 2x PLAN EP MCX4-LX 25Gb 2p SFP28 LP
SAS Controller		PSAS CP403i (flashed 400i)
Power Supplies		2x Modular SV 800W platinum H-P
Networking		2x Brocade VDX6740T, 24x 10GBase-T

<b>Hardware</b>		<b>XF8055 (All Flash)</b>
<b>Rack Infrastructure</b>		PRIMECENTER M2 Rack 42U 1200x800
<b>Compute Nodes</b>	<b>Chassis</b>	PRIMERGY RX2540 M4 (LFF)
	<b>CPU Options</b>	2x Intel Xeon Gold 5120 14C 2.20 GHz 2x Intel Xeon Gold 6130 16C 2.10 GHz 2x Intel Xeon Gold 6138 20C 2.00 GHz 2x Intel Xeon Gold 6140 18C 2.30 GHz 2x Intel Xeon Gold 6148 20C 2.40 GHz 2x Intel Xeon Gold 6152 22C 2.10 GHz
	<b>Memory Options</b>	16x 32GB (1x32GB) 2Rx4 DDR4-2666 R ECC (512GB) 12x or 16x 64GB (1x64GB) 4Rx4 DDR4-2666 3DS ECC (768 or 1024 GB) 12x 128GB (1x128GB) 8Rx4 DDR4-2666 3DS ECC (1536GB)
	<b>SSD Options</b>	SSD SATA 6G 480GB Mixed-Use 3.5" H-P EP (6, 8, 10 or 12x, 2.88TB - 5.76TB, 3DWPD) SSD SATA 6G 960GB Mixed-Use 3.5" H-P EP (6, 8, 10 or 12x, 5.76TB - 11.5TB, 3DWPD) SSD SATA 6G 1.92TB Mixed-Use 3.5" H-P EP (6, 8, 10 or 12x, 11.5TB - 23TB, 3DWPD) SSD SAS 12G 800GB Write-Int. 3.5" H-P EP (6, 8, 10 or 12x, 4.8TB - 9.6TB, 10DWPD) SSD SAS 12G 1.6TB Write-Int. 3.5" H-P EP (6, 8, 10 or 12x, 9.6TB - 19.2TB, 10DWPD)
	<b>Boot device</b>	1x SSD SATA 6G 150GB M.2 N H-P
	<b>LAN Options</b>	up to 4x PLAN EP X550-T2 2x10GBASE-T up to 2x PLAN EP MCX4-LX 25Gb 2p SFP28 LP
	<b>SAS Controller</b>	PSAS CP403i (flushed 400i)
	<b>Power Supplies</b>	2x Modular SV 800W platinum H-P
<b>Networking</b>		2x Brocade VDX6740T, 24x 10GBase-T

## Software

<b>Acropolis</b>	The Acropolis software pack is pre-installed on the aforementioned hardware and available in several editions to meet your infrastructure needs with the right capabilities.
<b>Starter</b>	Core set of software functionality. Ideal for Small-scale deployments with a limited set of workloads.
<b>Professional</b>	Rich data services, resilience and management features. Ideal for running multiple applications or large-scale single workload deployments.
<b>Ultimate</b>	The full suite of Nutanix software capabilities to tackle complex infrastructure challenges. Ideal for multi-site deployments and advanced security requirements.
	Further information and the individual features of the Acropolis software editions can be found on the website <a href="https://www.nutanix.com/products/software-options/">https://www.nutanix.com/products/software-options/</a>



# More information

## Fujitsu products & solutions

### Products

[www.fujitsu.com/global/products/](http://www.fujitsu.com/global/products/)  
Fujitsu offers a full portfolio of other computing products.

### Computing products

- Storage systems: ETERNUS
- Server: PRIMERGY, PRIMEQUEST, Fujitsu SPARC M10, BS2000/OSD Mainframe
- Client Computing Devices: LIFEBOOK, STYLISTIC, ESPRIMO, FUTRO, CELSIUS
- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

### Solutions

<http://www.fujitsu.com/global/solutions>  
The Fujitsu solutions combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships. Fujitsu's Solutions include parts of one or more activity groups (e.g., planning, implementation, support, management, and training services) and are designed to solve a specific business need.

**Infrastructure Solutions** are customer offerings created by bringing Fujitsu's best products, services and technologies together with those from partners to deliver benefit to our customers' businesses.

**Industry Solutions** are tailored to meet the needs of specific verticals.

**Business and Technology Solutions** provide a variety of technologies developed to tackle specific business issues such as security and sustainability, across many verticals.

## Fujitsu services

### Services

[www.fujitsu.com/global/services/](http://www.fujitsu.com/global/services/)  
Several customizable Fujitsu Service offerings ensure that IT makes a real difference and delivers true business value. We do this by leveraging our extensive experience in managing large, complex, transformational IT programs to help clients in planning, delivering and operating IT services in a challenging and changing business environment.

**Application Services** support the development, integration, testing, deployment and on-going management of both custom developed and packaged applications. The services focus on delivering business and productivity improvements for organizations.

**Business Services** respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

**Managed Infrastructure Services** enable customers to deliver the optimal IT environment to meet their needs – achieving high levels of IT service quality and performance for data center and end user environments.

## Fujitsu green policy innovation

[www.fujitsu.com/global/about/environment/](http://www.fujitsu.com/global/about/environment/)  
Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at:



## More information

To learn more about Fujitsu, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website. [www.fujitsu.com/fts](http://www.fujitsu.com/fts)

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