AMD-based HPE ProLiant DX385 systems powered by Nutanix software

HPE ProLiant DX385 systems with AMD EPYC processors driven by Nutanix HCI software delivers top performance for customers most demanding workloads

USE CASES

Cloud:

Deploy on an efficient public, private or hybrid cloud with Nutanlx Clusters on AWS, HPE GreenLake, VMware, Microsoft or OpenStack-based solutions.

End User Computing:

Make virtual desktop infrastructure (VDI) a success by delivering excellent user performance and scalability without burdensome operational and high capital costs.

Databases and Enterprise Applications:

Deploy and scale your critical workloads, such as Microsoft, SQL, Oracle and SAP business applications.

File & Object Storage and Analytics/AI/ML:

Data sets and analytics easily scale as your needs grow, enabling better understanding of your customers and operational trends to run your organization.

Messaging, Collaboration and UC:

Proven deployments for Microsoft Exchange[®], collaboration tools such as SharePoint[®] and major Unified Communications vendors, including Avaya[®], Cisco[®], and Microsoft[®]. HPE ProLiant DX systems powered by AMD EPYC processors and running Nutanix software deliver top performance across a range of business-critical workloads. Furthermore, AMD has built-in capabilities to maximize enterprisegrade security to provide IT peace of mind that data and applications are constantly protected. The goal is to deliver full confidence that enterprise applications run best on AMD-based HPE ProLiant DX systems, providing optimal value for businesses.

The AMD EPYC processor is ideal for virtualized environments with ample processing resources for multi-threaded applications including a high number of cores per socket combined with a sizeable number of I/O channels for high volume connectivity to storage. Furthermore, AMD processors are designed with data isolation in mind. In other words, data from different sources is isolated from each other, whether in memory or in virtualized machines or at boot-up.

The Nutanix software amplifies performance through an approach called data locality which co-locates the data and application on the same node to avoid network hops across the cluster. Nutanix software also enhances security through isolating applications in case the network is breached and constantly checks and restores system configurations against a known secure baseline. Moreover, Nutanix supports a range of choices including multiple hypervisor options, a wide variety of storage media and protocols, a selection of ways to consume the infrastructure and support for multiple types of cloud deployments to run your applications.

SOLUTION BENEFITS

Efficiency in Performance and Scaling

With more processing and I/O resources, AMD-based HPE ProLiant DX385 systems have greater flexibility to match workload needs to optimize application performance. Additional storage capacity and compute can be added quickly with predictable results.

Lower Operating Costs

By having more resources per processor, AMD-based HPE ProLiant DX385 systems get more work done per node enabling smaller cluster deployments. Thus, space, power, cooling, per node licensing and system administration costs are lower due to the few number of nodes needed.



Data Protection:

Full remote replication plus back up VMs and data to your local systems, to a remote site or the cloud.

Development & Test:

Engineering and QA get their own efficient high-performance VMs with access to private copies of production databases and data.

More Secure Platform

AMD-based HPE ProLiant DX385 systems resist external attacks by encrypting data contained in memory and virtual machines to protect the business during server to server migrations or in case of breach. Furthermore, the firmware and BIOS are protected not only during the boot process, but through an HPE innovation are also constantly monitored during on-going operation.

Simple Management

One-click non-disruptive lifecycle management of Nutanix software, hypervisor and HPE Service Pack for ProLiant (SPP) firmware. Manage the entire HPE system infrastructure as one in Nutanix Prism.

Fast Time-to-Value

Nutanix Acropolis OS and AHV software is factory pre-installed on AMD-based HPE ProLiant DX385 systems enabling fast and simple infrastructure deployments.

Offers Unparalleled Application Support

Advanced industry standard x86 processors from AMD, coupled with dense flash storage and Nutanix web-scale design deliver predictable application throughput and support for a wide range of industry workloads, including those in financial services, healthcare and manufacturing.

Enables Customer Choice¹

Select your hypervisor of choice, from the pre-installed Nutanix AHV or VMware ESXi™.

HPE PROLIANT DX385 GEN10 PLUS 12LFF



- 2U, 2-socket, AMD EPYC 7002 Series CPUs (8 - 64 cores per socket)
- Nutanix AHV 5.17 & VMware ESXi 6.7u3
- Fully configure-to-order (CTO)
- Ideal for databases, business-critical applications & unstructured data
- 12LFF SATA/SAS
- (2 12)x SSD
- (2 4)x SSD + (4 10)x HDD
- 4TB RAM
- 6x NICs
- 2x E208i HBA Controller
- Boot Options
 - UEFI Boot. Secure Boot Ready.
 - 1x M.2 SATA, or
 - 2x M.2 NVMe RAID1



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T. 855.NUTANIX (855.688.2649) | F. 408.916.4039 info@nutanix.com | www.nutanix.com | **y**@nutanix

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