

EASY-TO-OPERATE COMPUTING FOR HARSH EDGE ENVIRONMENTS

HPE ProLiant DX8000 with Nutanix software

HPE ProLiant DX8000 with Nutanix software—High-performance computing at the edge

By 2022, the portion of enterprise data created outside the data center will be

75%¹

Help optimize your solution with HPE Pointnext Services

- HPE Pointnext Services brings you the expertise needed to help you make edge computing simple.
- Combined with HPE heritage and leadership in consumption-based IT, strength in infrastructure, and partner ecosystems, HPE Pointnext Services professionals can help you deliver better outcomes faster.



Unleashing the edge's full potential requires running existing and new mission-critical and operational applications unmodified at the edge—not just pared-down edge versions. Workloads running in the data center or cloud must all run identically at the edge—whether containers, virtual machines, databases, software-defined storage, or Internet of Things (IoT) applications.

Running the same software stacks both in the cloud and at the edge affords cost savings, ease of management, and use of existing IT and operational technology (OT) skills. To achieve these benefits, edge systems are engineered with enterprise-class compute, storage, management, and security delivered in a rugged form factor to withstand harsh edge environments.

The HPE ProLiant DX8000 with Nutanix software brings operationally simple high-performance computing to the edges of network communication, where large volumes of data are being generated but compute capability to get quick insights has traditionally been very limited.

The rugged size, weight, and power (SWaP)-optimized design of the HPE ProLiant DX8000 delivers new efficiency and creates new operational models in domains such as telecommunications, manufacturing, defense, automotive, or energy. HPE ProLiant DX8000 expands the reach of machine learning, video analytics, and mobile edge compute. The compute capacity previously limited to traditional data centers or the public cloud is now available at the edge, close to where the data is generated.

¹ Top 10 Strategic Technology Trends For 2018: Cloud To The Edge, Gartner, March 2018

Solution brief

The edge is where the action is

The edge is everywhere—a factory floor, an oil rig, defense deployments, or an airport. The things at the edge—cars, drones, cameras, personal devices, meters, and more—are sources of rapidly growing Big Data. The ability to capture new data, analyze and deliver real-time insights enables you to optimize operations, redefine staff experiences, improve customer satisfaction, and create differentiated mission models.



FIGURE 2. HPE ProLiant DX8000 with Nutanix software

Edge systems management

HPE ProLiant DX8000 with Nutanix software converge OT—such as data acquisition, control systems, and industrial networks—with enterprise-class IT in a single, rugged system suited for harsh edge environments to enable innovative new abilities at the edge.

The value of a compact, ruggedized form factor for deployments, far from a data center, includes:

- Optimized where SWaP is important
- More durable for placement in harsh edge environments
 - Wider operating temperature (0–55°C)
 - Higher shock/vibe tolerances

• No compromises on:

- Performance
- Manageability
- Security



FIGURE 1. HPE DX8000 with Nutanix software

SIMPLICITY WITH NUTANIX

Nutanix hyperconverged infrastructure software is integrated on HPE ProLiant DX8000 in the HPE factory and is delivered to the customer as a turnkey, simple-to-deploy, and easily managed infrastructure building block that can quickly scale out in capacity, as needed.

With Nutanix software, the HPE ProLiant DX8000 is a complete software-defined infrastructure stack that integrates compute,

[virtualization](#), storage, networking, and security to power any application, at any scale. With Nutanix, IT system admins can replace legacy infrastructure consisting of separate servers, storage networks, and storage arrays. Benefits include lower TCO, increased performance, and greater productivity within IT teams.

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