Solution brief



Elevate your virtual desktop experience with HPE ProLiant and AMD

Accelerate business productivity

HPE ProLiant Gen11 servers with 4th and 5th Generation AMD EPYC™ processors with up to 160 cores per CPU (320 cores for dual CPU servers) deliver advanced performance, efficiency, and security features for your most demanding VDI workloads.



The hybrid workplace must be adaptive, interchangeable, and secure. Employees and managers expect the flexibility to change locations and schedules where it makes the most sense to drive productivity and engagement. Virtual desktop infrastructure (VDI) solutions built on HPE ProLiant Gen11 servers powered by 4th and 5th Gen AMD EPYC™ processors are ideal for today's hybrid workplace, enabling teams to:

Work remotely

- Reliable connectivity regardless of location with advanced security features
- Unified manageability across distributed edge infrastructure (workstations, laptops, or any device)
- Employee productivity regardless of work type (task worker, knowledge worker, and power user)
- Smooth and effective adoption of remote working best practices (integrated workflows)
- Consistent zero trust security policy

Work interchangeably

- Consistent productivity across work types and locations
- Maximize TCO and efficiency with server consolidation to optimize business real estate and facilities resources (resource consolidation, data/security sovereignty, reduced admin overhead)
- Scale up and down to meet unpredictable short- and long-term factors (employment growth/decline, natural disasters, economic influences)
- Seamless transition between work environments

Next generation of compute designed for today's hybrid world

As more and more companies allow employees to work from anywhere, they see the value returned in the form of higher productivity, greater workforce flexibility, and lower facility costs. This trend has driven the need for robust, secure, and manageable virtual desktop infrastructure (VDI) solutions to support flexible remote work scenarios while retaining control of data and applications across the edge, data center, and the cloud.

VDI deployment can address the most critical hybrid workspace challenges including security, performance, and infrastructure monitoring and management. Protecting proprietary corporate intellectual property, customer data, and personal information from malicious access or manipulation is critical for every organization. Delivering a responsive, high-quality remote work experience is also key, especially for people using graphic-intensive or multimedia applications. And to assure IT productivity, companies will appreciate a VDI compute infrastructure that simplifies and automates provisioning and overall environment lifecycle management.

With the launch of the new fleet of HPE ProLiant Gen11 servers powered by 4th and 5th Generation AMD EPYC™ processors, Hewlett Packard Enterprise delivers on all these requirements—and more.

Engineered for optimal performance, security, and efficiency

HPE ProLiant Gen11 servers powered by 4th and 5th Gen AMD EPYC™ processors bring a new level of compute efficiency, performance, security features, and manageability, ideally suited for VDI workloads. Companies must ensure that VDI compute resources are utilized efficiently without slowing access or impacting user experience for applications, easily handling spikes in traffic from dozens, hundreds, or thousands of workers accessing services simultaneously. Therefore, it is essential to balance density and performance to meet end-user expectations without over-provisioning and undermining business value.

When compared with the previous generation of HPE ProLiant servers, HPE ProLiant Gen11 servers meet this challenge. With a new generation of AMD EPYC processors that support high frequency and higher core counts to run a greater number of parallel processes without sacrificing performance. DDR5 memory supplements this by offering increased bandwidth combined with greater capacity, boosting performance and density even more. The new PCI Express 5.0 (PCIe 5.0) bus enables server components to achieve an unprecedented performance level by doubling data transfer rates and the number of lanes.

Moreover, extremely effective cooling solutions, lower and optimized power consumption components, and new power supply units make HPE ProLiant Gen11 servers a new energy-efficient standard for enterprise data centers.

The compute management portfolio and security are further strengthened with the introduction of our next-generation server management solution, HPE iLO 6, now integrated into every HPE ProLiant Gen11 server. With HPE iLO 6, you can securely configure, monitor, and update HPE ProLiant Gen11 servers from anywhere. It provides built-in security, as well as support for DTMF's Security Protocol and Data Model (SPDM) specifications, which combined with our zero trust security posture makes the HPE ProLiant Gen11 servers the world's most secure industry-standard servers. Additionally, HPE iLO 6 provides automation, streamlines IT operations with HPE OneView management, and simplifies lifecycle management with an intuitive cloud operating experience from HPE Compute Ops Management.

A range of servers to match your VDI requirements

HPE offers server models to match the full range of your VDI workload needs, whether supporting basic tasks such as email and standard office tasks, more advanced applications such as video streaming and collaboration tools, or graphics-, memory-, and CPU-intensive workloads such as video editing, rendering, or 3D design. Each HPE ProLiant Gen11 model features 4th and 5th Generation AMD EPYC processors, which support up to 160 cores per socket (320 cores for dual CPU servers), along with high-speed DDR5 memory and up to 160 high-bandwidth PCIe Gen5 lanes in a 2P configuration.

For VDI implementations supporting client-server and browser-based workloads, high-capacity or mixed workloads, and specialized office functions, the HPE ProLiant DL325 Gen11 server is ideal. This 1U single-processor server delivers exceptional compute performance with the optimal balance density and economics to support a broad range of VDI functions for general-purpose task work.

Large-scale VDI workloads benefit from the 1U dual-processor HPE ProLiant DL365 Gen11 server. This compute and density-optimized server is designed for workloads such as team collaboration, office and sales automation, back-office processing, and data-driven applications requiring strong security capabilities such as electronic health records.

To support power users running graphics-intensive workloads across your VDI, including CAD, engineering, 2D/3D modeling, multimedia, and Big Data analytics, the GPU-accelerated HPE ProLiant DL385 Gen11 server is the ideal choice. Designed for high-performance, data-intensive workloads, this 2U dual-processor server supports a large number of GPUs per chassis with high-capacity storage and maximum bandwidth for your most demanding workloads.



The right range of servers offering enables HPE to deliver fine-tuned and tailored solutions targeted for different workloads and densities, providing the right sizing and capabilities for load balancing and redundancy, helping to prevent any performance degradation or downtime.

Get the GreenLake cloud platform experience

HPE offers the flexibility to purchase and run your HPE ProLiant Gen11 infrastructure on-premises or through the GreenLake. With GreenLake, you can get pay-as-you-go convenience and public cloud flexibility with the privacy, performance, and control of your environment.*

With GreenLake for virtual desktop, you can power new ways of working with secure, scalable virtual desktop infrastructure, delivered as a service.[1] And with HPE Compute Ops Management, you can simplify the way you control compute from edge to cloud with a seamless as-a-service compute lifecycle management experience that reduces manual tasks, helps minimize downtime by shortening maintenance windows, and lowers risk, thanks to automated firmware updates.

Power your modern hybrid workplace with HPE and AMD

If you're looking to build a modern hybrid workplace that enables teams across the enterprise to work seamlessly anywhere, anytime, look no further than HPE and AMD. With a VDI powered by HPE ProLiant Gen11 servers with AMD EPYC processors, you can optimize performance, security, and flexibility for the most demanding VDI workloads to keep employees engaged and productive.

*May be subject to minimums or reserve capacity may apply

[1] HPE GreenLake for Virtual Desktop Infrastructure



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