Solution brief

HPE ProLiant Compute with AMD EPYC for Azure Local

At a glance

HPE ProLiant servers powered by AMD EPYC™ processors deliver a powerful, secure, and efficient foundation for Azure Local. Designed for distributed enterprises managing on-premises data centers and edge locations. HPE ProLiant for Azure Local is available in two options: Integrated Systems for Azure Local and Validated Nodes for Azure Local.

Challenges in hybrid and edge deployments

Organizations managing hybrid environments face challenges such as data sovereignty, latency, security, and operational complexity. Edge locations require compact, efficient, and secure infrastructure that can scale and integrate with cloud services while maintaining local control and compliance.

Solution overview

HPE ProLiant solutions for Azure Local are available in two options: Integrated Systems for Azure Local and Validated Nodes for Azure Local. Validated Nodes offer more flexible deployment options, including the ability to reuse existing hardware. Both can be delivered through HPE GreenLake, providing cloud-like economics with consumption-based pricing.

These solutions are designed to simplify hybrid cloud operations, accelerate innovation, and support AI and modern application workloads with enterprise-grade performance and lifecycle management.

HPE ProLiant with AMD EPYC Integrated Systems for Azure Local

HPE ProLiant Integrated Systems for Azure Local are a purpose-built solution combining HPE ProLiant servers with AMD EPYC processors and Azure cloud services. This appliance-like experience includes annual OS refreshes, factory integration, and specialized support. The solution supports configurations from a single node to 16 nodes, with flexible CPU, memory, storage, and networking options. It includes HPE Compute Ops Management for streamlined operations and optional services such as network switch configuration, and on-site deployment.

HPE ProLiant DL145 Gen11 Server for Azure Local Integrated System

Scale: 1 to 16 nodes

CPU: Single 16 to 64 core AMD EPYC processor

RAM: 64 GB to 768 GB

Networking: up to 25 Gbps RoCE

Storage: NVMe EDSFF

Raw capacity: 3.2 TB to 92.2 TB

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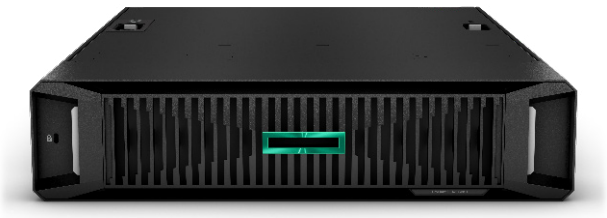

HPE ProLiant with AMD EPYC for Azure Local Validated Nodes

HPE ProLiant Validated Nodes for Azure Local is a hybrid cloud solution that enables customers to run Azure-consistent services on-premises with the performance, security, and scalability of HPE ProLiant servers powered by AMD EPYC processors. These validated nodes are ideal for Azure Local, offering integration with Azure Arc for unified management, security, and governance across hybrid environments. Customers prefer this solution for its ability to modernize infrastructure while maintaining data sovereignty, reducing latency for edge workloads, and delivering cost-effective performance for virtualization, storage, and containerized applications—all with the trusted reliability of Hewlett Packard Enterprise and the efficiency of AMD EPYC.

— Flexible: more diverse configurations for demanding workloads

— Ability for customer to engage with HPE for deployment and integration, if needed

— Existing hardware can be repurposed as long as it matches a current validated node solution in the Azure Local catalog

Server model	Use case	Form factor	Maximum memory	Storage options
DL145	Edge deployments	Compact single socket with flexible mounting	Up to 1 TB	Up to 4 SFF drives
DL325	Virtualization, general-purpose workloads	1U Rack — Single socket	Up to 3 TB	Up to 10 SFF or 4 LFF
DL345	Data-intensive workloads	2U Rack — Single socket	Up to 3 TB	Up to 12 LFF or 24 SFF
DL365	Compute-intensive workloads	1U Rack — Dual socket	Up to 3 TB	Up to 10 SFF
DL385	Virtualization, hybrid cloud	2U Dual socket	Up to 6 TB	Up to 28 SFF or 20 LFF

Key benefits

— Enterprise-grade security with silicon root of trust from HPE and AMD Infinity Guard

— High performance and efficiency with AMD EPYC processors

— Simplified management through HPE Compute Ops Management

— Scalable from edge to core with flexible configuration options

— Seamless integration with Azure Local services and support

Industry use cases

The HPE ProLiant Gen11 servers with AMD EPYC processors are ideal for a wide range of industries. Below are hypothetical use cases across key sectors, highlighting recommended server models and the benefits of deploying this solution.

Industry	Use case	Recommended server models	Key benefits
Healthcare	Deploy secure, high performance infrastructure for electronic health records (EHR) and medical imaging at hospitals and clinics	DL365, DL385	Enhanced data security, high compute performance, and compliance with data sovereignty regulations
Manufacturing	Enable real-time analytics and automation at edge sites for smart factory operations	DL145, DL325	Compact edge deployment, low latency, robust performance in harsh environments
Financial services	Support high-frequency trading platforms and secure transaction processing in data centers	DL345, DL385	Low-latency processing, strong encryption, and high availability
Retail	Run inventory management, customer analytics, and point-of-sale systems across distributed locations	DL145, DL325	Edge scalability, efficient resource utilization, centralized management with Azure integration

Learn more at

HPE and AMD Solutions

HPE for Azure Local solutions

— Management: HPE Compute Ops Management

— Optional networking: HPE Aruba Networking and HPE Networking Comware Switches

— Support: Azure Local-aware support team with direct Microsoft case handling (integrated systems only)

Get started now

To learn more about how HPE ProLiant Compute powered by AMD EPYC processors for Azure Local, contact your HPE representative

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