

Solution Brief

HPE Private Cloud AI

Turn AI infrastructure from a barrier into a competitive advantage



The AI Infrastructure Challenge

By 2028, more than 20% of enterprises are expected to run AI workloads locally in their data centers, up from less than 2% in early 2025. Traditional infrastructure, however, was never built to handle AI workloads.

Organizations investing in AI stumble over obstacles that include:

- Infrastructure complexity
- Unpredictable costs
- Extended deployment timelines
- Integration challenges



One of the best ways to simplify this infrastructure complexity is by avoiding it entirely through as-a-service solutions such as HPE Private Cloud AI.

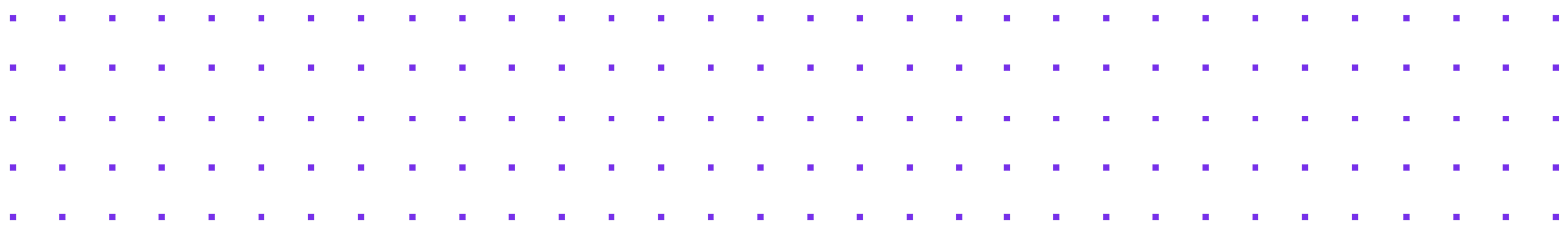
HPE Private Cloud AI: Turnkey, On-Demand AI Infrastructure

Logicalis and HPE Private Cloud AI eliminate these barriers with a turnkey solution that brings enterprise-grade AI infrastructure online in weeks instead of months. IT teams can leverage the infrastructure and AI expertise offered by HPE and Logicalis to streamline adoption, deployment, and management of new initiatives.

Co-engineered with NVIDIA, HPE's solution delivers a complete "AI factory" that can dramatically accelerate AI initiatives, timelines, and outcomes. From cost savings to data security, there are several advantages to choosing HPE Private Cloud AI as an infrastructure foundation.

Cost Savings

GPU cost per hour can sometimes be a useful metric to use when evaluating AI infrastructure, since AI relies so heavily on GPUs for processing. In the case of the public cloud, however, variable cloud pricing, influenced by factors like instance type, region, on-demand versus spot pricing, data transfer fees, and storage costs, can create complex and unpredictable long-term expenses.



HPE Private Cloud AI, in contrast, aims to provide a more predictable cost structure.

Deployment Size ¹	Public Cloud (Reserve)	HPE Private Cloud AI in Customer DC	3-year Cost Savings	% Savings Per GPU Hour
Small (8x L40S)	\$1.5M	\$0.8M	\$700K	49% Lower
Medium (8x L40S)	\$2.2M	\$0.9M	\$1.3M	60% Lower
Large (16x H100)	\$8.1M	\$1.9M	\$6.2M	76% Lower

Compared to on-premises infrastructure, HPE Private Cloud AI helps reduce expenses across several categories, including engineering costs, operational costs, and software licensing costs.

By cutting costs and accelerating deployment times, organizations can start seeing real-world results from their AI projects faster and at a lower cost. Business and IT teams can both spend more time on the actual initiatives, rather than infrastructure complexity.

Data Sovereignty Without Compromise

HPE Private Cloud AI addresses a critical enterprise requirement in a way that public cloud services cannot: data sovereignty, security, and compliance control. Because data remains on premises, it stays under the control of the organization, rather than third party cloud companies, such as hyperscalers.

Key security features include:



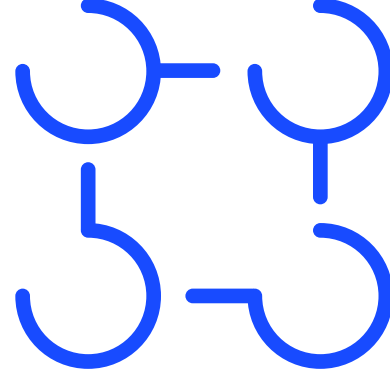
Strong authentication and authorization



Encryption of data at rest and in transit with advanced ciphers



Mature key management



A secure CI/CD pipeline

These features provide enterprise-grade levels of data, model, and application security, ensuring organizations maintain full control of their intellectual property. Strictly regulated industries, such as financial services, healthcare, and the public sector, can use a local, private cloud to avoid the security gaps inherent with third-party solutions.

1. Source: Enterprise Strategy Group Research, Economic Validation, Economic Benefits of HPE Private Cloud AI with NVIDIA AI Computing by HPE, March 2025.
via: <https://community.hpe.com/t5/ai-unlocked/ai-that-pays-for-itself-real-cost-savings-with-hpe-private-cloud/ba-p/7239466>

Cloud-Like Simplicity

Traditional infrastructure deployments require complex component selection, hardware and software integration, and continuous updates.

A pre-integrated, turnkey solution can eliminate months of component selection and integration work. Cloud-like management through HPE GreenLake provides unified operational experience across AI infrastructure.

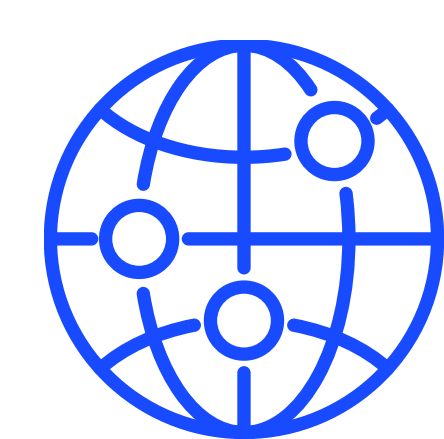
The private cloud and HPE's pre-validated, turnkey configurations deliver operational simplicity at any scale. Organizations get immediate access to cutting-edge GPU architectures, including upcoming Blackwell, Rubin, and Vera platforms. And cloud-native management simplifies day-to-day operations, from resource provisioning to capacity planning.

The result: a streamlined experience that not only simplifies day-to-day operations, it turns infrastructure adoption speed into a competitive advantage.

Configuration ²	GPU Resources	Storage Capacity	Sample Use Cases
Developer	Dual NVIDIA H100NVL 96GB	32TB	AI experimentation, proof-of-concept development, testing
Small	8x NVIDIA RTX PRO 6000 Blackwell	109TB	AI inference workloads, production scenarios
Medium	8x NVIDIA H200	217TB	AI inference with RAG workflows, advanced applications
Large	16x NVIDIA H200	670TB	Model fine-tuning, complex RAG, large-scale inference

Turning AI Infrastructure into a Competitive Advantage

with Logicalis + HPE



Global Capabilities: Grow globally with HPE authorization in 15 countries, international expertise, and unified engagement.



The Power of Partnerships: An HPE partner since 1993, we offer a full complement of HPE solutions and services.



Technology & Services Expertise: Our certified HPE technology experts help you take full advantage of the latest technologies and trends.

2. <https://www.hpe.com/psnow/doc/a50009216enw>

Managing AI-ready infrastructure requires strategic planning, deep technical expertise, and ongoing optimization. Internal resources are often best spent elsewhere, which is why Logicalis offers managed HPE compute services as part of their portfolio.

We bring decades of infrastructure experience to the table and support every stage of the infrastructure adoption lifecycle, from assessment and planning through implementation and optimization. We help align technology solutions to business goals, modernize existing processes, and scale as needed.

With our HPE experts managing infrastructure complexity, internal teams can focus on innovating with AI, instead of wrestling with infrastructure challenges.

Are you ready to turn AI infrastructure into a competitive advantage?

[Schedule Free Executive Consultation](#)

