

THE AI REVOLUTION—A STRATEGIC SHIFT

Advancing AI from pilot to production with
HPE Private Cloud AI

The AI revolution didn't come gently—it struck like lightning, bringing immediate and intense pressure to innovate. For many, the initial response was to turn to the public cloud. It provided a seemingly revolutionary way for pilots and rapid innovation, all just a credit card away. During that urgent exploration phase, it was the right move.

Now, as generative and agentic AI move from the lab into core production workflows, the public cloud's consumption model could become a significant financial and operational liability. Leaders are questioning the security of their data, the lack of infrastructure control, and the unpredictable costs.

The fastest path to enterprise AI

The AI journey demands a new blueprint—one that bridges the gap between the speed of the cloud and the unwavering security of a private data center. HPE Private Cloud AI, developed through the NVIDIA AI Computing by HPE initiative, offers a secure and agile AI factory to confidently scale AI applications from pilot projects to production environments.

Forget the complexity of building your own AI infrastructure. This solution comes ready to run with an integrated stack of hardware, software, and tools, allowing your teams to focus on accelerating business results—not on wrangling with infrastructure.

This innovative platform offers two breakthrough capabilities for your enterprise:

- **Simplicity that accelerates:** Get to work on AI projects immediately. The fully integrated platform removes the complexity and guesswork of building your own environment, so you can focus on innovation, not integration.
- **Faster business outcomes:** Don't just pilot AI—get it into production. Our robust infrastructure and integrated workflows are designed to reduce your time to value, turning your AI projects into real business results more quickly.

While other solutions may offer similar features, HPE Private Cloud AI stands out with its seamless integration and comprehensive design. It delivers a unique combination of turnkey simplicity and unified management, providing a quick and straightforward path to turning your AI ambitions into reality.



Empower your teams with HPE Private Cloud AI

Let's evaluate how HPE Private Cloud AI offers unparalleled simplicity and control for IT operations, along with true empowerment, enabling data scientists to accelerate results.

For your IT operations team, a single, intuitive user interface dramatically simplifies AI infrastructure management by reducing the complexity of AI toolchains and hardware stacks. This streamlined approach frees them to focus on what matters most—delivering business value—instead of getting bogged down by the complex setup and monitoring of infrastructure.

From a centralized dashboard, your IT operations team can:

- Easily deploy and configure all core components with a ready-to-use platform from day one.
- Gain complete observability into core hardware components and infrastructure health.
- Proactively monitor critical resources, including GPU cores and CPU capacity.
- Identify and resolve bottlenecks and performance issues, such as disk I/O, before they impact your business.

To accelerate your AI initiatives, your data science teams need instant access to the right resources. That's exactly what HPE AI Essentials delivers. As the built-in software platform, it provides a pre-integrated ecosystem of tools and models—from NVIDIA AI Enterprise to open-source notebooks. By giving your teams self-service access, you eliminate the traditional delays of waiting for IT, empowering them to focus on what matters most: turning ideas into business results.

Both novice and experienced data scientists can:

- Accelerate AI development by quickly moving from idea to deployment.
- Easily develop everything from basic models to highly sophisticated use cases, such as agentic AI.

Turn AI into business value, securely and at scale

In today's competitive landscape, the success of your AI initiatives is measured by one thing: business value. As enterprises move from AI experiments to mission-critical operations, they need a platform that not only enables breakthrough capabilities but also delivers predictable costs and a clear return on investment.

Achieving measurable business value from AI initiatives requires a strategic shift. You need an AI platform designed to accelerate time-to-value, simplify complex workflows, and provide the control and security necessary for consistent, reliable results. With HPE Private Cloud AI, you can move AI from concept to reality and from cost center to profit driver. Here's how it improves your bottom line in four key ways:

1. Accelerate time-to-value

HPE Private Cloud AI can rapidly replace multi-month infrastructure projects with an engineered AI factory. Pre-configured solutions facilitate a rapid transition from proof of concept to a fully scaled generative or agentic AI environment in hours instead of months.

Automated updates for the AI Essentials Software Platform enable you to keep your environment current with minimal effort. Your team is freed from tedious maintenance tasks and can focus on innovation. The platform's back-end processes remove common hurdles, helping your AI initiatives transition smoothly from pilot to full deployment, while you maintain full control over when to accept updates.

2. Maximize ROI and gain cost predictability

Choosing an on-premises private cloud like HPE Private Cloud AI gives you the financial control and predictability needed to turn AI business cases into successful projects. You gain the power to confidently budget your AI initiatives, as predictable expenses replace fluctuating cloud fees.

Beyond cost predictability, the platform helps you maximize your return on investment. With end-to-end observability, you can quickly identify and resolve issues across your infrastructure, data, and models, so your AI outcomes remain reliable and high-quality. Additionally, multi-tenancy verifies that all GPU and CPU cores are efficiently utilized, eliminating idle resources and improving overall hardware ROI.

3. Mitigate risk and strengthen data governance

Robust security and governance are not just about compliance—they are about protecting your bottom line. HPE Private Cloud AI delivers a direct financial advantage by minimizing risk and streamlining operations.

With automated, zero-touch security active from day one, you reduce the likelihood of costly breaches and regulatory penalties that can undermine profitability. Your teams will spend less time on manual oversight and compliance audits, as all access controls and policy-driven management are centralized in a single console.

The platform's end-to-end observability upholds data and model integrity, minimizing business disruptions tied to inaccurate or compromised AI outputs. By integrating pre-built security architectures and open-source tools, HPE Private Cloud AI eliminates multi-vendor complexity, lowering operational overhead and enabling your teams to innovate confidently.

4. Empower innovation at scale

Supporting innovation at scale requires a platform that liberates, not restricts, your teams' creative and technical potential. HPE Private Cloud AI is designed to accelerate development and foster seamless collaboration, allowing you to scale AI with confidence.

You can easily expand your existing compute and GPU resources to meet growing demands without the burden of a complete system redesign or costly networking changes. This flexible expansion protects your existing investment and gives you a clear path to future growth.

Teams are empowered with true control thanks to enterprise multi-tenancy, which supports both isolated and shared environments within a single, secure platform. This setup allows for innovation while maintaining security and governance. The built-in data lakehouse gateway provides a unified view of all your data assets, enabling quicker decision-making without the cost or risk of moving or duplicating datasets.

Operational efficiency is enhanced through a suite of pre-validated tools and notebooks that standardize workflows, making the transition from pilot projects to full-scale production faster and more reliable.



Scalable, secure, and efficient AI for the modern enterprise

The future of AI in the enterprise requires a foundation that is as dependable as it is powerful. HPE Private Cloud AI is not just another technology platform; it's a strategic offering from HPE and NVIDIA, purpose-built to fuel your innovation and accelerate your success. By combining turnkey simplicity with predictable costs and investment protection, you can confidently turn AI ambitions into reality.

It's time to elevate your operations. Seize the advantage with HPE Private Cloud AI.

Ready to go deeper or see a demo?
Email us at: pcai.accountdev@hpe.com

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