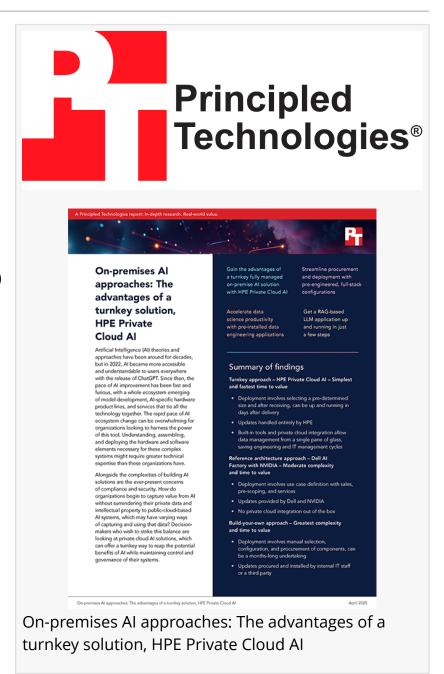# Principled Technologies research study explores the advantages of HPE Private Cloud AI

The study report discusses the considerations around public cloud versus on-premises for AI and contrasts three on-premises approaches

HOUSTON, TX, UNITED STATES, May 15, 2025 /EINPresswire.com/ -- As organizations increasingly adopt artificial intelligence technologies, many face critical decisions about where and how to deploy these AI workloads. Principled Technologies (PT) conducted a research study comparing three primary on-premises AI deployment strategies—build-your-own, reference architecture + services, and turnkey. Their report highlights HPE Private Cloud AI as a leading turnkey solution that simplifies procurement, accelerates deployment, and reduces ongoing maintenance burdens.

Key findings from the report include:
• Faster time to value: HPE Private Cloud AI offers pre-validated hardware and software stacks delivered in pre-engineered configurations. This enables customers to deploy AI infrastructure within hours or days rather than months.
• Enhanced security and compliance: By hosting AI workloads on premises within a private cloud environment powered by HPE GreenLake, organizations maintain full control over sensitive data,

On-premises AI approaches: The advantages of a turnkey solution, HPE Private Cloud AI

addressing compliance requirements such as GDPR and reducing risks associated with public cloud breaches.

• Integrated AI software ecosystem: Unlike other approaches, HPE's turnkey solution comes with pre-installed data engineering and data science tools—including Apache Apar, Airflow, Kubeflow, and NVIDIA AI Enterprise—providing a unified platform for AI developers, administrators, and data scientists.

• Simplified management: Role-based access controls, single sign-on, and lifecycle management are built into the solution, minimizing IT overhead and allowing teams to focus on innovation rather than routine maintenance.

From the report, "While a validated reference architecture + services approach such as Dell AI Factory simplifies deployment by offering validated components, it leaves management, integration, and orchestration to the customer, that company's services group, or a third party. In contrast, the turnkey HPE Private Cloud AI provides a pre-validated stack with hardware and AI toolsets, integrated data services software, and a cloud delivery model for administrators, data engineers, and data scientists—all of which lets organizations hit the ground running. It combines ease of procurement, setup, and management with a rich selection of out-of-box AI software and data tools, while providing the control and security of an on-premises deployment."

To learn more, read the in-depth research report at https://facts.pt/PXgubnF.

About Principled Technologies, Inc.
Principled Technologies, Inc. is the leading provider of technology marketing and learning & development services.

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