

Principled Technologies study shows that an on-premises Dell AI Factory solution can reduce 4-year TCO for GenAI

A Dell AI Factory on-premises solution, paid for up front or using Dell APEX Infrastructure, cost less than competitive AWS and Azure solutions

ROUND ROCK, TX, UNITED STATES, July 28, 2025 /EINPresswire.com/ -- A major challenge facing organizations embarking on GenAl projects and hosting them in the cloud is the accrual of unexpected costs that force them to postpone or cancel their plans. The Dell AI Factory offers on-premises solutions capable of powering GenAl that can help keep these unexpected costs at bay and dramatically reduce the cost of a project over the next four years. To quantify the cost of various options, Principled Technologies evaluated the four-year total cost of ownership (TCO) for GenAI cloud solutions from AWS SageMaker and Azure Machine Learning as well as a Dell AI Factory on-premises solution using two payment models: CAPEX and via subscription with Dell APEX Infrastructure.

The report states, "According to our calculations, the Dell Al Factory

Principled Technologies® Make GenAl investments go further with the Dell Al Factory The cost benefit of implementing a Dell AI Factory solution versus AWS and Azure Generative AI (GenAI) can help organizations of all types and sizes further their business goals, but selecting a right-sized solution that meets performance, budget, and security needs can be a challenge. While it may appewise to host large language models (LLMs) in the cloud to maximize flexibility, committing to adeploying AI outside your data center walls can lead to budget concerns over time and costing businesses more in the long run. In a 2024 survey, 46 percent of business leaders said AI implementation cost was a concern—a significant jump from just 3 percent the previous year. Companies are beginning to halt or postoper AI initiatives due to costs, as they incur "token costs, unexpected additional costs, and AI sprawl." With the "world's broadest end-to-end portfolio of technology and services to support AI innovation," according to Dell research, Dell AI Facto can offer an attractive alternative to cloud sprawl.² can other an attractive attention to cloud system.

To help business understand the total cost of deploying and managing GenAl workloads, including model fine-tuning and inferencing, we looked at the approximate 4-year costs of an on-premises Dell" Al Factory solution with PowerEdge" R660 and PowerEdge XE9680 hardware using two payment options—with a raticional payment model CAPEX solution and a Dell APEX Infrastructure solution—and comparable Amazon Web Services (AWS) SageMaker and Microsoft Azure Machine Learning solutions. According to our calculations, the Dell Al Factory solutions were the most core-lifective of the "Ayers solutions we compared. The Dell APEX Infrastructure solution reduced costs by 62 percent compared to AWS and 60 percent compared to Auze. The same Dell Al Factory on-premises solution with no subscription (CAPEX model) would reduce 4-year costs by 63 percent compared to the AWS solution and 61 percent compared to the Azure cloud solution we priced. Read on to see how choosing to run GenAl on premises with an on-premises Dell AI Factory solution can help your company make the most of your investment. 4-year TCO costs for a Dell Al Factory on-premises solution vs. AWS and Azure environments | Lower is better Report: Make GenAl investments go further with the Dell Al Factory

solutions were the most cost-effective of the 4-year solutions we compared. The Dell APEX Infrastructure solution reduced costs by 62 percent compared to AWS and 60 percent compared to Azure. The same Dell AI Factory on-premises solution with no subscription (CAPEX model)

would reduce 4-year costs by 63 percent compared to the AWS solution and 61 percent compared to the Azure cloud solution we priced. Read on to see how choosing to run GenAl on premises with an on-premises Dell Al Factory solution can help your company make the most of your investment."

It concludes: "These results show that organizations looking to implement GenAI and reap the business benefits to come can find many advantages in an on-premises Dell AI Factory solution, whether they opt to purchase and manage it themselves or engage with Dell APEX Infrastructure. Choosing an on-premises Dell AI Factory solution could save your organization significantly over hosting GenAI in the cloud, while giving you control over the security and privacy of your data as well as any updates and changes to the environment, and while ensuring your environment is managed consistently."

To learn more about how choosing a Dell AI Factory on-premises solution can reduce the 4-year TCO of GenAl projects, read the report at https://facts.pt/VdyUdP5 and see the infographic at https://facts.pt/qGJDAoH.

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



Principled Technologies, Inc. is located in Durham, North Carolina, USA. For more information, please visit www.principledtechnologies.com.

Sharon Horton
Principled Technologies, Inc.
press@principledtechnologies.com
Visit us on social media:
LinkedIn
Facebook
YouTube

Χ

This press release can be viewed online at: https://www.einpresswire.com/article/834078810

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.		