

# Confidently Deploy AI Infrastructure with Lenovo ThinkAgile HX Solutions

## Article

### Nutanix GPT-in-a-Box solution on ThinkAgile HX

IT leaders are looking for scalable, high-performance AI workload-ready infrastructure that can be rolled out quickly with minimal management and maintenance overhead. This means pre-designed solutions with robust management features, proven reliability, and a full array of service and support options that you can rely on from your largest data center to your most remote edge location.

The Lenovo ThinkAgile HX665 V3 and HX650 V3 solutions with Nutanix GPT-in-a-Box™ solution simplifies the complexity of adopting generative AI by offering clear, prescriptive steps for infrastructure deployment. By integrating ThinkAgile HX solutions with Nutanix software, this solution harnesses popular Large Language Models (LLMs) like Llama 2, Falcon and MPT to create a validated AI-ready platform. This approach not only streamlines AI initiatives but also accelerates their deployment, spanning from the data center to the edge.



Figure 1. Lenovo ThinkAgile HX650 V3

Nutanix GPT-in-a-Box is a turnkey AI inference solution for organizations seeking to implement generative pre-trained transformer (GPT) capabilities while maintaining control over data and applications. Nutanix GPT-in-a-Box solution provides a secure, full-stack enterprise AI platform with everything needed to build an AI-ready infrastructure, including: A single-cloud operating model using Nutanix Cloud Platform with graphic processing units (GPUs) Nutanix Unified Storage (NUS) for total data management, security, privacy, and resilience A bring-your-own-model approach that allows you to choose the best LLM for your environment.

## Nutanix Validated Designs

Nutanix Validated Designs (NVDs) consists of systems and solutions that are meticulously designed, tested, and documented to enhance and streamline customer deployments. These designs integrate a diverse array of technologies and products into a cohesive portfolio, tailored to meet the specific business needs of our customers.

The [Nutanix Validated Design](#) details the deployment for GPT-in-a-Box solution on ThinkAgile HX665 V3 and HX650 V3, focusing on the implementation of on-premises Generative AI applications. It describes a design framework that facilitates the deployment of a secure, flexible, and innovative Generative Pretrained Transformer (GPT) solution. This setup allows organizations to privately manage and operate their chosen AI Large Language Models (LLMs) and applications.

## Benefits

The benefits of Nutanix GPT-in-a-Box include the following:

- **Simplify deployment process** with a Validated Design, offering a tested and documented methodology to ensure the successful adoption of a GPT solution. It eliminates uncertainty, helping you design and deploy with confidence.
- **Optimize operations** with a cloud-based model that offers enhanced visibility, control, and uniformity for hyperconverged systems across expansive, distributed environments .
- **Safeguard data** with a validated solution that features built-in redundancy and robust data-protection mechanisms, ensuring high availability and data integrity

## Resources

Use these resources to find out more:

- Nutanix Validated Design for GPT in a Box Solution on ThinkAgile HX665 V3 and ThinkAgile HX650 V3:  
[Nutanix GPT-in-a-Box: AOS 6.7 with AHV Design](#)
- Brochure: Nutanix GPT-in-a-Box on ThinkAgile HX  
[Scale hybrid cloud at the speed of AI](#)
- Article: Modernize Hybrid Cloud for AI workloads with ThinkAgile HX and Nutanix Cloud Platform:  
[Modernizing Your Hybrid Cloud for AI Inference Workloads for Nutanix and ThinkAgile HX](#)
- Analyst white paper: ThinkAgile HX Series with the Nutanix Cloud Platform offers significant economic benefits, including a reported 418% return on investment (ROI):  
[The Economic Benefits of Lenovo ThinkAgile HX Series with Nutanix Cloud Platform](#)

## Related product families

Product families related to this document are the following:

- [ThinkAgile HX Series for Nutanix](#)

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This document, LP2026, was created or updated on September 10, 2024.

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