



Modernize Your IT Infrastructure with Hybrid Cloud Solutions from Lenovo and VMware

Article

Redefine Your Approach to IT

Lenovo and VMware are proud to announce an advanced hybrid cloud solution that is focused on the large and mid-market global customers. It helps customers redefine the way businesses approach their IT infrastructure. **Cost Efficiency** and **ROI** are at the forefront of IT leadership minds in these economically challenging times. Budget considerations play a significant role, as well as total cost of ownership, licensing fees, maintenance expenses, and potential productivity gains. This solution provides a unified environment that bridges the gap between on-premises infrastructure and the cloud, ensuring optimal performance and resource utilization, while also providing consistent application management and security across environments.

Our joint effort has produced a cutting-edge reference architecture, accompanied by a comprehensive deployment guide, aimed at empowering enterprises to build a powerful and seamless hybrid cloud environment. This architecture draws upon Lenovo's industry-leading hardware expertise and VMware's unmatched virtualization and cloud management capabilities. Together, we have fine-tuned every aspect of this solution to ensure seamless integration, optimal performance, and simplified management.

Introducing the Hybrid Cloud Solution

Imagine harnessing the power of Lenovo's state-of-the-art ThinkAgile VX series hyperconverged servers combined with VMware Cloud Foundation to create an on-premises software-defined datacenter (SDDC) that seamlessly connects to a VMware-based cloud in a public cloud provider. This advanced hybrid cloud solution brings together the best of both worlds, offering unparalleled agility, scalability, and flexibility.

Scalability and **Flexibility** are keys for successful companies today. IT looks for technology that can scale seamlessly to accommodate growing demands or changing business needs. Scalable solutions allow the organization to expand resources as required, ensuring long-term viability without major disruptions.

Customers can choose from numerous VMware-based hosted clouds to expand their on-premises private cloud into the public cloud for a hybrid deployment, such as VMware Cloud on AWS or Google Compute Engine. This reference architecture focuses on using Microsoft Azure VMware Solution (AVS) and provides a secure and private connection from the on-premises network to Microsoft Azure, enabling seamless connectivity between the two environments as though they are in the same datacenter.

Management of this advanced hybrid cloud is provided by VMware Aria and Lenovo XClarity. This tight integration between VMware & Lenovo enables a single pane of glass visibility into every layer of their hybrid cloud, from the Azure native workload, down to the individual components in their on-premises environment.

Use Cases

Hybrid cloud solutions offer various benefits and use cases that cater to diverse business requirements. Here are a few examples:

Scalability and Bursting

Hybrid cloud environments allow businesses to address fluctuating demands and varying workloads effectively. When on-premises resources reach their capacity, organizations can "burst" into the public cloud, leveraging its virtually limitless scalability to handle peak loads. This elasticity ensures efficient resource utilization, cost optimization, and improved performance during peak periods.

Geographic Reach and Data Sovereignty

Hybrid cloud solutions provide the ability to deploy applications and services in geographically dispersed data centers, complying with data sovereignty regulations and improving latency for regional users. This use case is particularly relevant for global organizations seeking to deliver low-latency experiences and adhere to data residency requirements.

Disaster Recovery and Business Continuity

Another important use case for a hybrid cloud is to implement a robust disaster recovery strategy. By replicating critical workloads and data between on-premises infrastructure and the cloud, organizations can ensure business continuity in the event of a disaster, such as hardware failure, natural calamities, or cyberattacks. The hybrid cloud provides an ideal platform for cost-effective and reliable data replication and failover solutions.

Data Backup and Archiving

Hybrid cloud solutions offer an excellent way to manage data backup and long-term archiving. Organizations can store critical data on-premises for fast access and use the cloud for cost-effective, scalable, and reliable data archival. This approach ensures data redundancy, compliance adherence, and efficient management of large datasets.

Conclusion

As businesses continue to evolve, embracing the possibilities of hybrid cloud computing becomes more crucial than ever. With our joint expertise, we invite you to explore this advanced hybrid cloud solution and transform the way you manage and scale your IT infrastructure. Leveraging the agility and comprehensive capabilities that this hybrid cloud solution brings to the table, companies can accelerate their journey towards attaining key business goals and objectives.

Together, Lenovo and VMware are redefining the way organizations approach their IT strategies, enabling them to thrive in a dynamic digital world. This collaboration showcases the power of co-innovation, bringing together Lenovo's cutting-edge hardware and VMware's unparalleled software capabilities to create a seamless and powerful modern IT solution.

Stay tuned for more groundbreaking innovations as we continue to reshape the future of IT infrastructure!

Additional materials:

- [VMware blog](#)
- [Reference Architecture](#)
- [Deployment Guide](#)

Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service. Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc.
8001 Development Drive
Morrisville, NC 27560
U.S.A.
Attention: Lenovo Director of Licensing

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary. Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk. Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

© Copyright Lenovo 2025. All rights reserved.

This document, LP1796, was created or updated on August 21, 2023.

Send us your comments in one of the following ways:

- Use the online Contact us review form found at:
<https://lenovopress.lenovo.com/LP1796>
- Send your comments in an e-mail to:
comments@lenovopress.com

This document is available online at <https://lenovopress.lenovo.com/LP1796>.

Trademarks

Lenovo and the Lenovo logo are trademarks or registered trademarks of Lenovo in the United States, other countries, or both. A current list of Lenovo trademarks is available on the Web at <https://www.lenovo.com/us/en/legal/copytrade/>.

The following terms are trademarks of Lenovo in the United States, other countries, or both:

Lenovo®

ThinkAgile®

XClarity®

The following terms are trademarks of other companies:

Microsoft® and Azure® are trademarks of Microsoft Corporation in the United States, other countries, or both.

Approach® is a trademark of IBM in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.