

Digital-first healthcare in the cloud

Embrace the future of innovative healthcare delivery with VMware and Microsoft Azure

As a leading technology partner to healthcare organizations globally, VMware continuously delivers leading-edge technologies that provide a platform for digital healthcare innovations, driving better patient outcomes.

Azure VMware Solution enables world-class hybrid or cloud-first healthcare delivery

VMware understands healthcare, with 35 of the world's top 40 hospitals and the top 20 hospitals in the US¹ running on VMware. Microsoft and VMware have partnered to create Azure VMware Solution, a new platform for innovation. This platform allows customers to leverage their existing VMware investments, deploy on a hybrid or dedicated cloud infrastructure, migrate from legacy applications, and better serve patients and customers in a secure and highly available environment.

Key trends in healthcare

\$52B

The global healthcare
cloud computing
market revenue
by 2026²

26%

Expected increase
in cloud-deployed
healthcare workloads
by 2024³

69%

Healthcare IT
organizations that
deploy apps and data
to multiple public
cloud and on-premises
environments³

1. VMware: "Deliver Exceptional Care Delivery and Patient Experiences with VMware"

2. Frost & Sullivan: "Global Healthcare Cloud Growth Opportunities: Competitive Intensity Drives the Growth Potential of Hybrid and Multi-cloud Deployment Models"

3. VMware: "The Future State of Cloud in Healthcare"

VMware products

[Azure VMware Solution](#)

[SD-WAN](#)

[Horizon](#)

[NSX Advanced Load Balancer](#)

[Azure Spring Apps-Enterprise](#)

“Ordering and installing on-premises networking hosts can take six months. But using Azure VMware Solution, it’s a simple process to run up new hosts that we can have working in a few days.”

- Harry Sturgess
Manager of Technology and Operations, Metro South Health

Metro South Health

Support the remote workforce with VMware and Microsoft Azure

Background

- Telehealth has remained a popular virtual option for patients following the pandemic
- Physician and nurse burnout has reached critical stages for both primary and specialty care

Challenges

- Architecting remote desktop environments can be highly complex
- Security and compliance stretch the limits of IT departments amidst the wide array of remote platforms, solutions, and devices

How does VMware help?

VMware enables healthcare organizations to modernize toward a distributed application and cloud infrastructure. Enabling physicians and nurses to work remotely helps them to avoid burnout and can reduce devitalizing turnover. VMware also facilitates diagnostic services like teleradiology and other high-value telemedicine solutions to be performed remotely, simplifying the off-site management of complex medical devices.

Healthcare organizations in the early stages of providing remote workforce capabilities can realize immediate cost savings with virtual desktops that enable efficient workflows, reduce IT administration, enhance data security, and expand remote work opportunities for staff members.

Customer outcomes



Organizations provide a more dynamic array of healthcare services



Less stressful and more flexible schedule options help keep medical personnel on staff



Lower costs result from preserving legacy investments and simpler deployment of remote technologies

VMware products

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[Tanzu](#)

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Extend the reach of patient care at the edge with VMware and Microsoft Azure

Background

- Pop-up healthcare services have risen in popularity, particularly in underserved markets
- Healthcare services are a major source of growth for clinical retailers

Challenges

- Managing workloads from on-premises to remote environments
- Difficulty in finding and hiring the talent to create and maintain diverse environments
- Securing edge devices, which are more vulnerable to attack than the data center

How does VMware help?

VMware enables fast, secure access to patient information and other medical data on mobile devices. Because of this, healthcare organizations are empowered to set up pop-up clinics in underserved markets more easily. The process is as simple as plugging in a device and clicking an activation email – devices are set up, connected, and ready to go.

Data securely moves at the edge, on-premises, and in the cloud. Innovation potential increases and risk decreases as IT architects design and integrate new capabilities quickly with VMware.

For example, VMware is now being used to transfer medical data in real time from medical flights, allowing for better coordination of patient care following transfers to medical centers.

Customer outcomes



Clinical retailers provide new, more widely available point-of-care services via Horizon on Azure



Organizations quickly develop more diverse digital healthcare strategies and experience new growth



Providers deliver highly integrated healthcare platforms that connect and secure healthcare professionals, patients, and data from the cloud to the home

VMware products

[Azure VMware Solution](#)

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[Horizon](#)

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“Our level of governance has benchmarked the security settings and compliance in the environment. With Azure VMware Solution, we can apply those benchmarks, security settings, and compliance in the environment.”

- Craig Dempsey
Cloud Solution Advisor,
Metro South Health

Metro South Health

Secure the healthcare pipeline with VMware and Microsoft Azure

Background

- Health data security breaches have increased threefold in recent years⁴
- The shift to remote working has increased attack vectors

Challenges

- The continual evolution of regulatory and compliance measures makes it difficult to impart them to the entire pipeline
- New cybersecurity threats emerge daily, presenting enormous challenges to secure apps and services

How does VMware help?

SD-WAN and a single pane of glass can control the security provisioning of apps that are running, helping to ensure users are secure when accessing healthcare services at home. Using IPsec tunneling with SD-WAN helps to manage policies to ensure security and compliance.

As part of Azure VMware Solution, Microsoft Azure enables a full set of security measures including identity and access management, data protection, network security, and threat management.

With Horizon, if a device is lost or stolen, all data is protected in the data center or the cloud, removing endpoint hardware data storage risk.

Customer outcomes



Maintain security and compliance across all locations and environments



Deliver security as a built-in distributed service across your control points of users, devices, workloads, and networks



Help ensure patient data and payment data are securely confined to designated network routes

4. Politico: [“Health data breaches swell in 2021 amid hacking surge. POLITICO analysis finds”](#)

VMware products

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[SD-WAN](#)

[Horizon](#)

[NSX Advanced Load Balancer](#)

[Tanzu](#)

[Azure Spring Apps-Enterprise](#)

“Digital transformation at Sanofi is driving a more agile business and a faster time to market to manufacture and deliver medicine.”

- Sam Chenaour
Vice President and Global Head of Infrastructure, Sanofi



Prepare for the future of healthcare with VMware and Microsoft Azure

Background

- Healthcare consumers have raised their expectations after experiencing new delivery models
- Forward-thinking organizations are already integrating AI, 5G, and other cutting-edge technologies into their patient-facing applications

Challenges

- Advancements stalled by legacy applications and systems
- Evolving regulatory and compliance barriers
- Accelerating numbers of security breaches

How does VMware help?

VMware helps to integrate data and applications to power research and interoperability. Additionally, VMware provides a sustainable roadmap for application modernization that works with modern platforms to enable lasting improvement and meaningful outcomes.

VMware’s product suite helps healthcare organizations prepare for the future; for example, hospitals as they prepare to use 5G LTE in their environments. VMware Tanzu and Tanzu Labs create an integrated data layer that lets healthcare teams analyze app portfolios to develop and execute a modernization strategy that aligns with business objectives and quickly delivers results.

Customer outcomes



End-to-end platform automation with intelligent interactions



Breaking down data silos across departments, the enterprise, and the entire healthcare ecosystem



Sustainable roadmap for application modernization



Enhanced patient care