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Simplifying IT to Amplify Patient Care With Nutanix

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Abstract: Healthcare organizations face mounting IT complexity that hampers digital transformation and patient care delivery. Nutanix addresses the challenge with a software-defined platform that consolidates server, storage, networking, and virtualization into one system to support streamlined electronic health record (EHR) deployments, medical data access, security compliance, and AI readiness.

Managing Transitions in Healthcare Settings Amid Growing IT Complexity

Healthcare organizations globally are looking to embrace a range of emerging technologies to transform the patient experience. Those technologies include new patient experience and engagement solutions such as agentic AI chatbots that leverage advanced AI capabilities, advanced EHR technologies, and various virtual and remote patient management and monitoring technologies (see Figure 1).[1]

These organizations' efforts, however, are being hampered by legacy infrastructure architectures that lack the agility, scalability, and efficiency to enable healthcare organizations to "run the organization" as well as "transform the organization." If healthcare IT leaders don't modernize the underlying infrastructure to effectively handle both existing and emerging applications, they risk not being able to take full advantage of innovations that are set to transform all aspects of the healthcare experience.

One key technology and infrastructure-specific challenge faced by healthcare organizations is overall IT complexity. Complexity is nothing new in IT environments, especially in the healthcare sector, where IT leaders must satisfy multiple, sometimes competing priorities, such as embracing new technologies, transforming patient outcomes, satisfying regulatory requirements, and saving costs.

IT-related challenges often result in real impacts across the whole healthcare environment. Clinical staff, for example, have a high burnout rate that is often due to the amount of time they spend wrestling with disparate, aging IT systems. Also, increasing competition among healthcare providers means they are all focusing more on differentiating themselves through technology-enabled patient experiences such as personalized medical care.

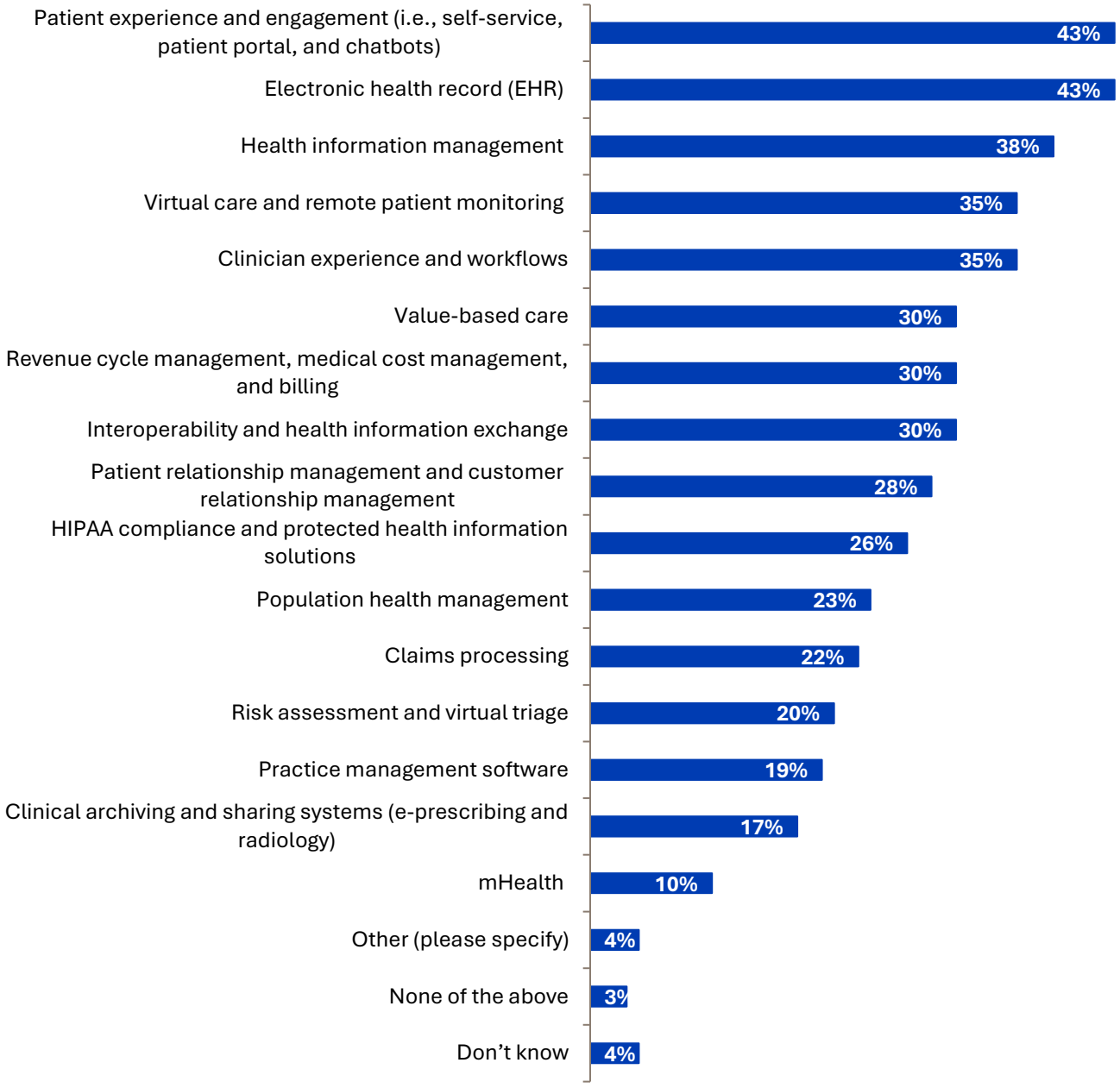
Enterprise Strategy Group (now Omdia) research data highlights the extent of the challenges: 54% of surveyed healthcare-industry IT leaders said complexity in their IT environments has increased over the past two years. Key drivers behind complexity align to the challenges these organizations are facing, with the most frequently cited challenge (cited by 53% of respondents) being the need to incorporate new and emerging technologies.

[1] Source: Enterprise Strategy Group (now Omdia) Research Report, *2025 Technology Spending Intentions Survey*, December 2024.

Other major challenges mentioned included higher data volumes and data sources (38%), new data security and privacy regulations (38%), and an increase in the numbers and types of end-user devices (38%).[2]

Figure 1. Key Technology Investment Areas for Healthcare Organizations

In which of the following healthcare technologies does your organization plan to invest in the next 12 months? (Percent of respondents, N=96, multiple responses accepted)



Source: Omdia

[2] Ibid.

Much of that complexity is rooted within the technology infrastructure. At many healthcare organizations, legacy infrastructure compounds complexity, which affects the rollout and quality of real-world business outcomes. For example, 63% of surveyed healthcare IT leaders said the complexity of their organization's IT infrastructure is slowing down IT operations and digital initiatives.[3]

Specific challenges vary, but key ones include:

- The complexity and cost of managing infrastructure for key healthcare applications such as EHR and picture archiving and communications systems (each with its own set of performance requirements) across disparate three-tier storage and server environments. Those environments are difficult to scale, which typically leads to overprovisioning of resources, and they often require separate specialists to manage each domain.
- The generation of significant amounts of data, especially image data that must be retained securely according to strict regulatory requirements. Managing growing data stores across a distributed environment that supports clinicians who might require instant access to large data sets can be particularly challenging.
- The creation of even more silos as healthcare organizations deploy AI and other new applications on cloud-native architectures such as containers, which could have uncertain or unpredictable compute and storage resource requirements.
- The need to ensure data privacy and security requirements are met across the fragmented environment. Fragmentation makes it difficult to apply common policies and processes across the entire estate and potentially exposes the organization to data breaches and other cyberattacks.

Essentially, healthcare industry organizations need a modern IT infrastructure environment that serves as an enabler of transformation, not an inhibitor of it. Platforms must be able to support a wide variety of existing and emerging applications and workload types, easily scale as requirements change, and be rock-solid from a security and reliability standpoint. And most critically, infrastructure components must actually simplify the overall environment to reduce burdens on IT staff and eliminate IT-related barriers that prevent clinicians from focusing on their core patient care-related tasks.

Nutanix Offers Simplified Infrastructure for Modern Healthcare Environments

Nutanix is a well-established player in enterprise IT overall and within the healthcare industry specifically. More than 1,500 global healthcare organizations have chosen Nutanix for its combination of maturity, simplicity and power, all wrapped in a software-defined platform.

The Nutanix platform combines multiple infrastructure elements—server, storage, networking, a choice of virtualization engine, and an optional Kubernetes container environment—integrated into a single platform with a common management layer and embedded, policy-based security protocols.

[3] Source: Enterprise Strategy Group Research Report, *The Critical Role of Storage in Building an Enterprise AI Infrastructure*, September 2025.

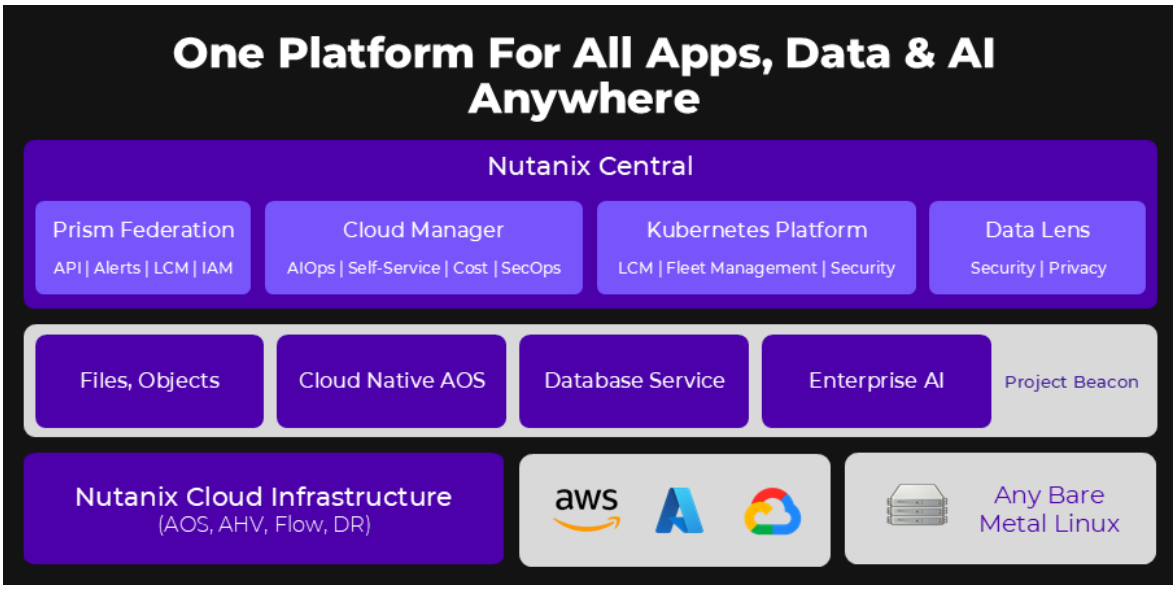
That approach enables healthcare organizations to deploy an optimal blend of functionality that they can add onto and scale as requirements evolve. It also eliminates the need to make guesses about resource requirements up front because further resources can be seamlessly added to the platform. Additionally, the Nutanix platform was designed to run in hybrid, multi-cloud environments. Healthcare organizations, therefore, benefit from being able to leverage resources across the distributed environment using a consistent deployment and operational management model.

> **"Proving that Epic's ODB for customers our size would run successfully on Nutanix was a colossal accomplishment. In tandem with Nutanix and Epic, we not only proved that Nutanix can handle the load, but it was a legitimate alternative to well-established incumbents as well as cloud offerings."**
>
> Jon Edwards, IT Director at Legacy Health

Key benefits of the Nutanix platform for healthcare organizations (see Figure 2) include:

- **Streamlined EHR deployments.** Nutanix simplifies EHR deployment and management, reduces IT complexity, and ensures consistent, high-performance access. Healthcare organizations can start small and scale over time. The infrastructure expands in step with IT's needs, and clinicians remain focused on patient care.
- **Accelerated access to medical and image data.** Nutanix enhances the performance and scalability of picture archiving and communication systems and vendor-neutral archives. That provides healthcare teams with fast, reliable, seamless access to terabytes or even petabytes of images and other patient data.
- **Patient privacy, protected with confidence.** Nutanix safeguards sensitive patient data with built-in encryption, microsegmentation, and automated compliance tools. Healthcare organizations can streamline their adherence to HIPAA, GDPR, and HITECH regulations while reducing manual effort, thereby protecting privacy efficiently and at scale.

Figure 2. Nutanix for Healthcare Organizations



Source: Nutanix

Additionally, Nutanix offers powerful support for emerging AI and generative AI workloads, enabling predictable and personalized medicine, including:

- **A secure and private full AI stack.** This is a simple-to-deploy, services-led, full-stack enterprise AI solution (GPT-in-a-box), eliminating the need for healthcare organizations to stitch together disparate components themselves.
- **A choice of large language models (LLMs).** Organizations can adapt quickly to changing business needs by leveraging the right LLMs with Nutanix Enterprise AI to support the business.
- **A choice of Kubernetes platform.** Organizations can quickly deploy AI applications, running them the way they want to with a choice of Kubernetes platforms, including the Nutanix Kubernetes Platform.

Healthcare organizations that decide to follow the Nutanix approach can expect to gain numerous benefits, including:

- Reduced infrastructure complexity, enabling clinicians to focus on outcomes.
- Ensured data privacy and compliance without added overhead.
- The ability to "democratize" AI in healthcare with intuitive, scalable platforms.
- The flexibility to start small, scale fast, and effectively adapt to evolving healthcare demands.
- Consolidated workloads, reduced costs, and boosted agility.

Conclusion

Countless healthcare organizations struggle with a dual mandate of maintaining operations while driving innovation. The research paints a picture—54% of healthcare IT leaders reported increasing complexity, 63% acknowledged that infrastructure complexity is actively hindering their digital initiatives, and clinical staff continue to burn out, in part because they are wrestling with fragmented systems instead of focusing on patient care.

Organizations that continue to patch together legacy infrastructure will find themselves increasingly unable to compete in an environment where patient experience, operational efficiency, and clinical outcomes are tied directly to technological capability. Conversely, those that embrace modern, unified platforms are positioning themselves to thrive in an AI-driven healthcare landscape.

Every day spent managing infrastructure complexity is a day not spent improving patient outcomes. Every hour clinicians waste navigating disparate systems is an hour stolen from patient care. Every security vulnerability created by fragmented environments is a risk to patient trust and organizational reputation.

The question isn't whether to modernize—it's whether to lead the transformation or be forced to follow. With proven solutions such as those from Nutanix available and more than 1,500 healthcare organizations already realizing benefits, the path forward is clear. Stop letting infrastructure complexity continue to compromise the mission of exceptional patient care.

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