

Simplify operations and reduce risk with flexible, scalable, and secure infrastructure for Epic deployments

# Nutanix Enterprise Cloud for Epic EHR



**“All of our physicians and health-care staff should be able to access patients’ records in a short period of time determined by Epic (based on their best practice). If it’s over that period of time, it’s called a Response Time Exception. Our goal is to remain below a threshold of 1% exceptions for every action. There was a dramatic improvement the day we cut over to Nutanix—the rate of exceptions plummeted from 0.8% to just 0.4%. That doesn’t sound like a big change, but it’s pretty incredible to be able to cut that number in half just by moving to Nutanix.”**

- Jeremy Bernstein, Interim CTO, Presence Health

Nutanix Enterprise Cloud is the ideal solution to address Epic’s infrastructure requirements as Nutanix improves care provider productivity and significantly decreases risks with one-click operations, non-disruptive life cycle management, patient privacy and data security. Nutanix Enterprise Cloud is a dependable platform so clinicians and IT staff can focus on patient care instead of IT operations.

The Nutanix Enterprise Cloud solution is built on Hyperconverged Infrastructure (HCI). The Nutanix software consolidates servers, enterprise block and file storage, and virtualization into a unified platform, managed through a single interface, called Prism. Nutanix provides rich management for data protection, automation, networking, and security services.

Nutanix is currently the widest deployed HCI solution within the Epic community and supports all major hypervisors on Epic’s Target Platform Guide, and server hardware from all major x86 vendors and IBM Power. Features such as Nutanix Foundation automates day one deployment, taking the guess work out of infrastructure implementation.

Nutanix Enterprise Cloud OS’s innovative design delivers the high availability and performance that clinicians and patients demand. Nutanix scales efficiently as new Epic modules are deployed, with easy upgrades and expansions. This flexibility is especially useful for Epic customers who choose to grow their health system access via Community Connect or those who grow via mergers and acquisitions.

IT staff retains control over infrastructure and gains immediate benefits from cloud-like agility versus conventional infrastructure solutions, including:

- 61% more efficient to deploy, manage, and support
- 97% fewer unplanned outages
- 60% lower TCO

## DELIVERING EPIC INFRASTRUCTURE VIA NUTANIX ENTERPRISE CLOUD

Nutanix supports critical Epic components, including Hyperspace, and Web and Service tiers such as BLOB and Kuiper.<sup>1</sup>

Presence Health Case Study >

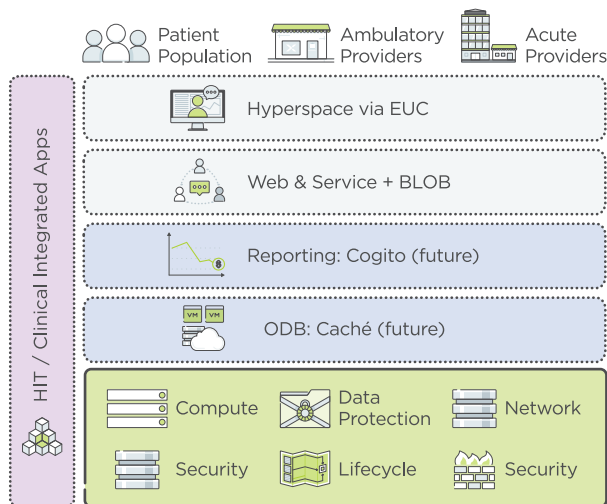


Figure 1: Epic EHR on top of Nutanix Enterprise Cloud

**“Epic is our EHR that we use at all our hospitals and clinics, and we deliver that using Citrix technology on top of Nutanix. With the capabilities Nutanix has brought in, we’ve been able to get the log-in time down to eight to nine seconds. So, we’ve given that time back to the doctors to actually spend with their patients, and the nurses to do their jobs.”**

– Carl Frank, Server Team Manager,  
University of Wisconsin Health

[Watch Video >](#)

Nutanix Enterprise Cloud OS software is hardware and hypervisor agnostic, empowering Epic community members to choose the server hardware and hypervisor combination they are comfortable with. Nutanix AHV is an easy to use, high performance hypervisor with first-class Citrix integration. AHV also provides first-class backup integration, with Commvault, Veeam, and Vertias NetBackup. Better yet, AHV is included with every Nutanix system as a zero-cost option. AHV can either be deployed day one or later via the one-click Convert Cluster feature.

### **SUPERIOR SUPPORT FOR EPIC HYPERSPACE**

Hyperspace, the front-end application for Epic, is typically presented via Citrix or VMware Horizon. Nutanix Enterprise Cloud simplifies delivery of Hyperspace client services with linear scaling, intuitive management, and predictable Hyperspace performance validated with [LoginVSI architecture](#). Nutanix can cut infrastructure management time by as much as 70% compared to traditional infrastructure. As you deploy Epic upgrades or add new modules, Nutanix scales-up and scales-out to deliver a seamless experience.

Nutanix scales-up with the most advanced Intel processors available, and scales-out by adding Nutanix nodes to existing clusters or by adding new Nutanix clusters, creating a repeatable deployment pattern. Separate clusters do not share fault domains for data or users. Non-disruptive hardware upgrades within existing Nutanix clusters means that you can deploy the latest generation hardware, without impact to the user community.

For those who deliver Epic via Citrix, Nutanix offers simple and smooth Citrix integration with Nutanix InstantOn for Citrix Cloud, Citrix XenApp/XenDesktop connector for Nutanix AHV, and the Citrix App Layering Connector for Nutanix AHV.

Tight integration allows you to deploy a resilient Citrix infrastructure on day one and continue to maintain the environment throughout its life, keeping up with application deployment cycles. Nutanix has published LoginVSI validated reference architectures for VMware Horizon and Citrix XenApp/XenDesktop solutions that further reduce deployment risk.



### **SCALABLE STORAGE FOR EPIC WEB BLOB**

Nutanix Files™ is a highly available, scale-out file storage solution that provides a repository for unstructured data such as Epic Web BLOB, home directories, user profiles, departmental shares, application logs, backups, and archives. Files is a fully integrated, core component of Nutanix Enterprise Cloud.

Unlike standalone NAS appliances, Files consolidates VM and file storage, eliminating the need for infrastructure silos. Files can be deployed for Web BLOB on the same cluster as the Web and Service tiers to maximize consolidation and utilization. The ability to administer Files with Nutanix Prism unifies and simplifies management.

Files integrates with Active Directory, supports quotas, access-based enumeration, and self-service restores using the Windows previous version feature. To protect clinical workloads without adding overhead, Files supports backup and replication alongside antivirus offload integration via ICAP-integrated providers.

### **FOCUS ON APPLICATION AVAILABILITY**

With a true shared-nothing, fully distributed design and no single points of failure, Nutanix Enterprise Cloud exceeds the availability of traditional infrastructure. Should a hardware failure occur, the self-healing Nutanix architecture automatically restores full resiliency, reducing the risk of an outage and shortening the mean time to repair (MTTR). This capability decreases the stress that failures can create for IT teams.

Protect your environment with Nutanix Enterprise Cloud snapshot-based backups and data replication using VM-granular policies. These operations can be performed both locally and to multiple secondary locations augmenting application-level protection strategies to deliver infrastructure protection.

### **SECURE BY DESIGN**

The Nutanix architecture takes a security-first approach with built-in features that deliver defense in depth, including secure development processes, baked-in security baselines with continuous validation, microsegmentation, and data-at-rest encryption.

Nutanix one-click non-disruptive upgrades take the pain out of infrastructure lifecycle management, minimizing risk by making it easy to stay up to date. These capabilities extend to hypervisors and system firmware, allowing for simple end-to-end patching.

### **GETTING STARTED WITH NUTANIX**

With its flexible, scalable architecture, simplified management, and superior support for virtual desktops and applications, Nutanix Enterprise Cloud is the smart infrastructure choice for your Epic deployment. To learn how Nutanix can help you move forward, contact Nutanix at [epic@nutanix.com](mailto:epic@nutanix.com), follow us on [Twitter @nutanix](https://twitter.com/nutanix), or send us a request at [www.nutanix.com/demo](http://www.nutanix.com/demo) to set up your own customized briefing.

<sup>1</sup> If you're interested in Operational DB (Caché), Analytics DB (Cogito), or BLOB storage, please contact [epic@nutanix.com](mailto:epic@nutanix.com) to initiate a three-way conversation with Epic about requirements prior to procurement. This collaborative process ensures alignment between Nutanix infrastructure and the Epic Hardware Configuration Guide, to meet your expectations for performance and supportability.



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Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications. Learn more at [www.nutanix.com](http://www.nutanix.com) or follow us on [Twitter@nutanix](https://twitter.com/nutanix).

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