Scrub up for polished EHR performance

For data that's highly accessible, protected, and always on, run EHR systems on AWS using Amazon FSx for NetApp ONTAP

■ NetApp | aws

Remedy EHR challenges

The healthcare industry is undergoing a vastly accelerated digital transformation. Advancements in IT processes have sped up and improved accuracy and efficiency in numerous areas. But as with every cure, there can be side effects.

Every service that goes digital could open new avenues that attackers can exploit. This is a uniquely sensitive challenge for healthcare businesses, because medical data is a very tempting target for cybercriminals. Breaches can cause significant monetary and reputational damage to providers—not to mention the legal repercussions of violating HIPAA and other privacy regulations.

Many healthcare businesses have struggled to address the security risks of their new digital capabilities, and 2021 saw high levels of serious breaches in which electronic health records (EHRs) were targeted. Organizations of all sizes are no longer asking how digital innovations can help their business; they're asking how they can consolidate and protect what they've already implemented.

44,993,618

Healthcare records exposed or stolen in 2021, the second-worst year on record

Source: HIPAA Journal, 2021

$9.23 million

Average cost of a healthcare data breach in 2021, up nearly 30% from 2020

Source: IBM, 2021

Inoculate your business against downtime

Falling victim to ransomware or other forms of digital disruption can not only put confidential patient data at risk, but also disrupt healthcare providers' day-to-day operations. In the worst case, it might even compromise patient safety and outcomes, especially if EHRs and other services remain unavailable for prolonged periods of time.

Extended downtime must be avoided at all costs, so it's crucial for healthcare providers to have highly available and durable data. That's why efficient replication of data is a key requirement for EHR disaster recovery.

Therefore, in addition to effective prevention tools and solutions, healthcare providers need robust mechanisms to recover from, respond to, and lessen the impacts of digital disruption. Having rigorous and well-managed data protocols helps you stay aligned with best practice, avoids compliance issues, reduces administrative overheads, and helps you deliver the best level of care to patients.

51%

## Increase in volume of patient records exposed from 2019 to 2020

Source: Constella Intelligence, 2021

Could cloud be part of the cure?

Security is a difficult and delicate matter for EHR systems, especially when they average 2.5 million[1] accesses per day per healthcare organization. If security is too strict and inflexible, you risk the system being unwieldy to use effectively. If security isn't strict enough, it puts patient privacy at risk.

With a constant treadmill of necessary updates, managing data protection internally puts serious pressure on IT departments and infrastructure budgets. This is where a cloud-based EHR system comes into its own. When you move to the cloud, you get access to secure data centers, security expertise, and additional data monitoring and protection.

Cloud-based EHR means you can rest assured that your records are protected with maximum security. With fault-tolerant capabilities and up-to-the-minute best practice for repelling hackers, plus 99.9% uptime, moving EHRs to the cloud offers capabilities outside the typical scope of on-premises solutions—and for significantly less cost.
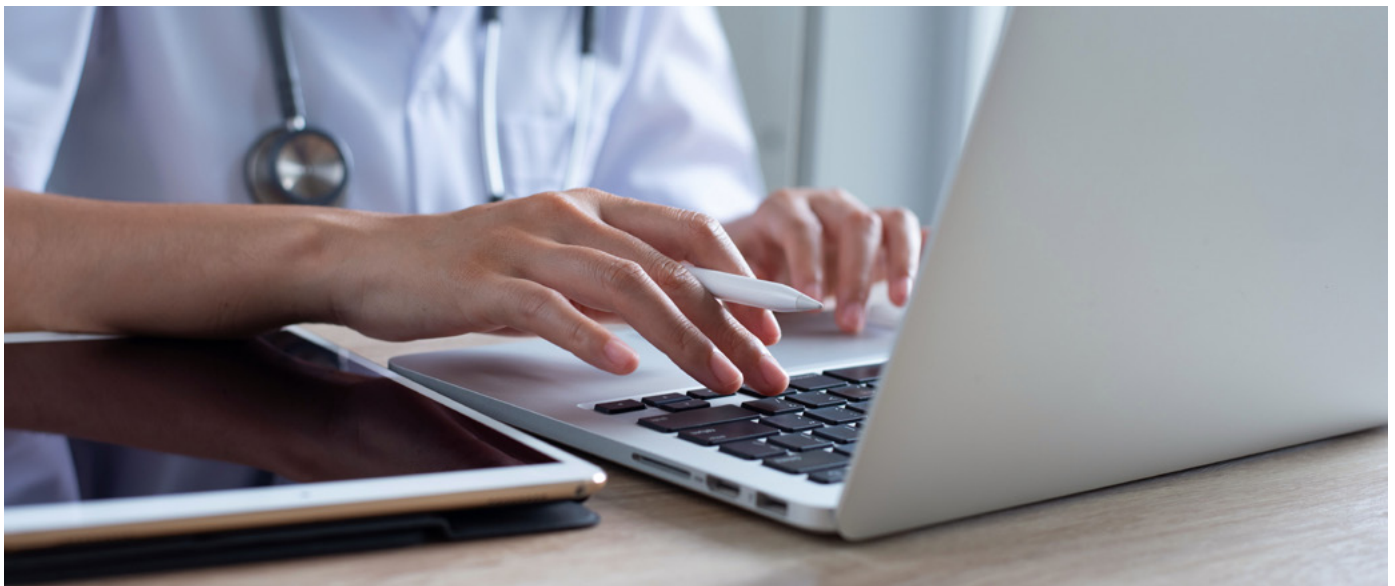
How NetApp can help

Protect data and keep threats at bay
EHR on AWS using Amazon FSx for NetApp ONTAP is designed to deliver fast, predictable, and consistent performance. Depending on your business needs, it offers flexible options for protecting your data so you can dramatically reduce recovery time.

EHR on AWS using FSx for ONTAP provides rapid, space-efficient copies and fully supports block-level "forever" replication, drastically reducing backup times. It also gives you the ability to instantly restore data from zero-impact NetApp® Snapshot™ copies if data loss, ransomware, or data inconsistency occurs.

With data recovery support that covers multiple availability zones and is cross-regional you have the broadest protection against outages and disruption. Plus, you can use our AI-driven technology to provide data governance across your entire data estate, putting you in full control of compliance and privacy concerns.

Ready for cloud-powered EHR environments?

Contact NetApp