



Healthcare

→ For the People and By the People

Healthcare is one of the pillars supporting modern society. Yet, unfortunately, in a lot of countries, it is underappreciated and tends to lag behind in terms of technology. A system of care for patients with different needs across a varying demographic requires a very unique infrastructure to keep that giant organism up and running. A crucial component of this equation is the IT infrastructure.

It should be able to support constant uptime of file storage, website hosting, and email services and most importantly, medical applications. Furthermore, this industry deals directly with people, their lives and their health, which is why a situation when medical records are inaccessible is unacceptable. Data protection plays an important role as well, but in healthcare, keeping always-accessible electronic medical records protected and backed up offsite is a must-have that is combined with the challenge of keeping them secure from prying eyes.

→ Specific Problems Require Specific Solutions

An IT infrastructure of a healthcare organization relies heavily on its equipment, for many reasons. Primarily, it does not only unite and operate all processes of their daily activities but actively uses modern technology. In medical imaging, the use of CT scanners requires swift integration into the infrastructure, which needs to be operational and highly available all the time, including the accessibility of the data contained in CT scans, because visual representations are vital for medical interventions. [StarWind Virtual SAN \(VSAN\)](#) allows your infrastructure to get rid of shared physical storage entirely. With StarWind VSAN, your need for custom-made hardware ceases to exist, as the StarWind solution delivers performance, high availability, and reliability using commercial equipment, making it more efficient and less pricey. Keeping your infrastructure up and running and highly available is crucial, and with StarWind products, you may as well forget about problems for good.

Every organization needs an operational database with offsite backup capacity and fault tolerance, but sometimes a cast-iron guarantee is a top priority. Electronic medical record (EMR) is basically electronically-stored digital data, containing patients' medical information, such as medical history, laboratory results, etc. Without constant access to this data, the health industry will be as blind as a bat. However, in this world, anything can happen, whether it would be a power blackout, system failure, or natural disaster. With [StarWind Virtual Tape Library \(VTL\)](#), you can stop worrying about the future. It ensures ransomware resiliency for your data and maximizes storage cost efficiency by tiering data to any other public cloud of your choice.

Furthermore, since EMRs contain top priority information often needed immediately, efficient memory caching is not something to be dismissed. With StarWind VSAN, there is a possibility to develop this aspect of your workload to perfection. Not so long ago, people used to think of SAS HDD drives as, probably, the best choice in terms of price and efficiency. However, while ten years ago, prices on SSDs were significantly higher, today, you almost wouldn't be able to tell the difference. That's why it's time to check characteristics. For example, 1.8TB 10K SAS (2.5") and 900GB 15K SAS (2.5") can only provide you with medium I/O performance and average latency at best, with a considerable percentage of failures. On the other hand, 1.92TB SATA SSD Read Intensive (2.5") will enable you with high I/O performance, low latency, and predictable resiliency.

Whenever life is at risk, you never want technology standing between you and saving it. StarWind makes sure that you can focus on saving lives, while we handle your infrastructure for you.