Electronic Health Records (EHR) on AWS

Unlock value from the cloud

EHR on AWS enables cost savings, agility, and the ability to leverage the latest cloud tools such as analytics, artificial intelligence, machine learning and consumer engagement technologies

What are the optimization opportunities?

EHR

on

aws

Static compute capacity
Production compute capacity is purchased in three-to-five-year cycles and statically sized at 150 percent of current production peak load. Disaster recovery capacity is 100 percent of production and after dev/test and other support systems it results in more than **three times production capacity spend**. Cloud elasticity allows growth on demand.

Expensive data growth
Well-architected EHRs retain multiple copies of their production data. Every terabyte of growth results in multiple terabytes of storage consumption often up to 12 times the size. With AWS capacity on demand, you can size capacity as needed.

Geo-redundant disaster recovery
Best practices recommend a **secondary data center facility** with production-equivalent capacity and capabilities, tested annually. With capacity on demand right-sizing your cloud DR environment may only require seven percent of production resources until a test or disaster thus reducing costs significantly.

Citrix sized for peak demand
Citrix is typically sized **two to three times** production to support DR, three year growth, and maintenance, including supporting infrastructure. Refreshes occur approximately every three years. Elastic infrastructure allows you to pay only for what you need.

EHR release cycle is accelerating
Automation of the infrastructure and application release cycles eases the pressure on your support teams and reduces the chance of human error with **infrastructure as code.**

Access to new enhanced computing/architecture
AWS releases new instance types on a regular basis. Organizations can migrate to new instances without having to incur the technical debt of the older compute systems.

EHR on AWS objectives

Performance | Reduce operating costs | Sustain through automation | Optimize workforce

Potential benefits of EHR on AWS go beyond speed and cost.

*Sample estimate for a new EHR implementation**

	On-premises	AWS
Total cost of ownership Over five years	**$11M**	**$3.3M** (70 percent lower)
Speed to market To stand up infrastructure and environments	**16+** weeks	**<1** week (94 percent faster)

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*TCO model was built for a client considering implementation of EHR. On-premises costs were provided by client's IT staff based on the EHR vendor hardware configuration specifications. AWS Capacity was estimated based on the same.