Deliver fast data residency requirements. Outposts is on the AWS HIPAA Eligible Services list.

The HCLS sector is often constrained by where organizations can store and originate data, either by country or by given address. These data residency and data localization standards apply to data that needs fast access to these files to review patient history, consult with colleagues, and create care plans.

When a business chooses to shift these workloads to the cloud, while still requiring them to communicate with systems of record (often on a mainframe), the higher latency that results could lead to problems. If a business needs fast access to these files to review patient history, consult with colleagues, and create care plans, these often require the low latency of on-premises infrastructure to maintain performance. If a critical workload needs fast access to these files to review patient history, consult with colleagues, and create care plans, it can be challenging to connect to an AWS Region.

AWS Outposts solves HCLS challenges by extending AWS services and capabilities to within data centers, allowing HCLS organizations to run seamless hybrid cloud solutions. Outposts handle IoT data and locally run AI/ML processes in real-time, creating instant feedback loops.

Dashboards that other research teams can access soon after Outpost processing is complete. Outposts can also sync to an AWS Region to sync databases and make their instruments productive. Outposts can also sync to an AWS Region to sync databases and make their instruments productive.

Outposts are available in most regions, providing access to AWS services and ensuring data remains on-premises and respects your on-premises requirements. Outposts are also available in the United States and Europe, with plans to expand to other regions.

To keep up with the latest data security mechanisms, AWS Outposts offers compliance with HIPAA and HITRUST CSF. Outposts provide customers with a high level of security and protection, making them an attractive option for organizations looking to comply with data localization standards.

To meet evolving end customer needs, Outposts offer scalable processors and support for a wide range of applications. Outposts can support low-latency, local data processing or data access, making them ideal for time-critical workloads.

Solution:

Use case:

In healthcare, life sciences researchers use multi-million-dollar microscopes and other lab instruments to study patients and create new treatments. There can be similar problems with data generated from healthcare research.

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Intelligent Healthcare and Life Sciences: The Movement of Enterprise Applications to the Cloud, Infosys Knowledge Institute, 2019.

AWS Outposts improves performance and reduces costs compared to traditional cloud deployments. Outposts can be used to run applications that are latency-sensitive or require data to be on-premises.

Most healthcare and life science data is stored on-premises.