Adista launches healthcare data hosting in its data centers

With HPE Synergy, Adista can provide high-security medical data hosting

Industry
IT

Objective
Adista wanted to offer healthcare data hosting to different clients in its data centers

Approach
To address its needs and after analyzing its own architecture, Adista opted for an HPE Synergy solution combined with **HPE 3PAR StoreServ Storage**

IT matters
- Use of a unique interface to manage and operate server/storage environments
- Create better value for money with high-density architecture
- Exploitation of the latest generation processors

Business matters
- Highly secure software tools for users
- High availability ensures that data can be accessed at all times
- The latest generation hardware offers significant performance enhancements

[1] Global Big Data in Healthcare Market: Analysis and Forecast, 2017–2025, BIS Research, 2018

Challenge

Responding to the evolution of healthcare data

Adista is both a hosted services provider and an alternative telecoms operator. Founded in 1981, the company now has 450 employees, with 27 offices on mainland France and five data centers.

In 2016, Adista decided to enter the healthcare data market to complement its existing services. This sector is experiencing rapid growth and is expected to be worth $68 billion by 2025, according to most research bodies.[1] The sector is seeing a boost after the decision to launch the Shared Medical Record in France in 2018.

To respond to this quick increase in needs, Adista needed to establish a powerful, hyper-dense, and secure IT architecture for its five data centers located across France.

"The objective is to locate as many physical and virtual machines in the smallest space possible to continually optimize performance," emphasizes Brice Munier, Head of Business PLAN/Architecture at Adista.

Additionally, healthcare hosting services are required to achieve 27001 certification, which relates primarily to data security. Since 2016, Adista has been offering this new business option to a range of different clients such as hospitals and radiology centers but the company is looking to move further. The restrictions relating to healthcare data require a highly secure IT environment, strong management capabilities, precise access monitoring, simplified operation, and the latest technologies. "While our data centers were equipped with **HPE BladeSystem** c7000 enclosures, we needed to find an alternative to meet the operational requirements of this new solution," outlines Brice Munier.

"One of the advantages of the HPE Synergy environment is the ability to blend hyperconverged or conventional production modes. In the former, the server and storage resources are combined in a single frame, facilitating straightforward, highly scalable management, while optimizing the space used. For its part, the conventional mode allows the consumption of resources outside the frame, such as **HPE 3PAR**."

– Brice Munier, Head of Business PLAN/Architecture, Adista

Solution

Hyperconvergence with the HPE Synergy system

In 2017, Adista heard about the HPE Synergy environment and the platform's many success stories. And, the following year the solution was adopted by the company throughout its data centers in France, combined with **HPE 3PAR StoreServ Storage**. In order to improve security and resilience, an identical architecture has now been duplicated and installed at a second facility about a kilometer away and is connected using fiber optic cables. The two buildings seem to be just a short distance apart, but this gives the advantage of achieving synchronous data replication and reducing latency. The aim is to ensure that the client has a disaster recovery plan thanks to the HPE 3PAR storage system.

For Brice Munier, "One of the advantages of the HPE Synergy environment is the ability to blend **hyperconverged** or conventional production modes. In the former, the server and storage resources are combined in a single frame, facilitating straightforward, highly scalable management, while optimizing the space used. For its part, conventional mode allows the consumption of resources outside the frame, such as HPE 3PAR." This flexibility was crucial Adista to choose a solution, as the company supplies different services based on client needs.

The solution comprises HPE Synergy 480 Gen10 Compute Modules with Intel® Xeon® processors. "We now deploy 90% of our environment in virtual mode through the use of hypervisors such as VMware® and Hyper-V. We are, therefore, able to create numerous servers, enabling us to provide our customers with a wide service portfolio," explains Brice Munier, adding, "the number of cores available helps us to optimize the way we use our physical environments."

Benefit

A scalable platform

The HPE Synergy solution can currently integrate up to 1,000 clients. And, based on the healthcare data environment and changing business requirements, Adista will be able to expand its production capacity by adding additional HPE Synergy modules or frames connected to the existing devices. "It's a scalable platform much the same as the HPE 3PAR storage system," explains Brice Munier.

What's more, with **HPE OneView** software tool, the server and storage environments are centrally managed. An IT specialist can now download firmware, deploy services, or even add environments from a single console boosting productivity.

"We can further pool our physical environments, thanks to the 480 **Gen10** module processors and the number of cores they contain."

– Brice Munier, Head of Business PLAN/Architecture, Adista

Customer at a glance

Hardware
• HPE Synergy 480 Gen10

• HPE 3PAR StoreServ Storage

Software
• HPE OneView

• HPE InfoSight

HPE Pointnext
• HPE Proactive Care

To complete the picture, Adista has an **HPE Proactive Care** contract, which not only ensures that the architectures are permanently monitored but also provides information about the data consumed by clients and the overall system performance. Finally, with **HPE InfoSight**, Adista can take advantage of the various metrics reported by the production environments to optimize resource allocation, identify potential outages proactively, and fine-tune the company's capacity planning management.

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