ByteLife

Guaranteeing Performance and Availability of Critical Applications in an EMC® VPLEX™ Environment

ByteLife Uses VirtualWisdom® to Complement EMC VPLEX in Two Data Centers for Real-Time End-to-End Infrastructure Performance Monitoring

Company Background
ByteLife is a data infrastructure company that builds, manages and guarantees critical business information systems. Its clients are companies whose latency sensitive transactions must be guaranteed against performance degradation or loss, which means that their data centers need to be 100% available. ByteLife’s main competencies are built around data centers: automation, management, virtualization, storage, networking, backup and archiving. Its primary technology partners are EMC, Cisco, VMware, VCE and Virtual Instruments. ByteLife customers are leading banks and telecommunication companies in the Nordic region and Baltic states such as Swedbank, Danske Bank, SEB, First Data, ABLV Bank, and the TeliaSonera AB companies EMT, Elion, Omnitel, TEO, and LMT. Founded in 2005, ByteLife has offices in the three Baltic states and Sweden. The company’s 2012 revenue was more than 10 million euros.

Customer Challenge
ByteLife recognizes that as the demands and complexities placed on data centers by mission-critical applications continue to increase, so does the need to guarantee their performance and availability. To show customers how to optimize performance and availability in a real-world setting, Tarmo Katmuk, ByteLife solutions architect, set out to create a small-scale version of an actual data center with two separate, but connected, data centers running applications independently.

CASE STUDY

Challenges
• Need to guarantee performance and availability of mission-critical applications
• Lack of visibility to assess the entire infrastructure and get the data needed to make intelligent decisions about performance at every layer of the infrastructure
• Other vendor tools cannot monitor the entire infrastructure
• Eliminate risk to infrastructure associated with the introduction of storage virtualization (VPLEX)

Solution
• VirtualWisdom platform with SANInsight® TAP Patch Panels, SAN Availability ProbeSW, SAN Performance Probe and Virtual Server ProbeVM

I strongly recommend that customers use VirtualWisdom Performance Probes to monitor VPLEX environments. VirtualWisdom adds visibility into the application layer and quantifies any perceived VPLEX performance impacts in real-time.

Tarmo Katmuk
SOLUTIONS ARCHITECT, BYTELIFE
Customer Benefits

- Sub-second latency metrics allow for proactive detection of problems that can disrupt application performance and availability
- End-to-end view of the EMC VPLEX environment and real-time root cause identification
- Ability to proactively identify slow application response times and improve cycle times and the customer experience
- Application performance issues readily identified and remediated
- Ability to de-risk data center migration while accelerating adoption of storage virtualization (VPLEX)

The Virtual Instruments Solution

ByteLife established a partnership with Nicolas Kollerstedt, Virtual Instruments Regional Sales Manager, in 2012 when VirtualWisdom® was added to its data centers to make them 100% available. The VirtualWisdom platform drives improved performance and availability against infrastructures supporting mission-critical applications, provides unbiased, real-time performance, health and utilization metrics, and delivers end-to-end visibility. While ByteLife has a long-term partnership with EMC, Tarmo concluded that none of the EMC tools could monitor the holistic environment—from the storage layer up to the application layer and everything in between. He concluded that Virtual Instruments offers the only real-time monitoring solution that is simple to use while giving him an end-to-end view of the environment. Tarmo finds the time stamp functionality especially useful as it allows him to slide back and forth to get a historical picture of exactly what was happening in the infrastructure at a specific time. Moreover, VirtualWisdom does not introduce additional complexity or latency into the environment. “If you go for an EMC VPLEX solution,” notes Tarmo, “I strongly suggest you have Virtual Instruments Traffic Access Points (TAPs) to every major storage project—VPLEX, VMAX, or whatever storage we are selling—to proactively monitor the environment.”

Tarmo Katmuk
SOLUTIONS ARCHITECT, BYTELIFE
Comprehensive VirtualWisdom software and hardware deployment in an EMC VPLEX environment.