



Philippe Nicolas, Industry Advisor, Rozo Systems

TITLE

Massively Scalable File Storage

ABSTRACT

Internet changed the world and continues to revolutionize how people are connected, exchange data and do business. This radical change is one of the cause of the rapid explosion of data volume that required a new data storage approach and design. One of the common element is that unstructured data rules the IT world. How famous Internet services we all use everyday can support and scale with thousands of new users added daily and continue to deliver an enterprise-class SLA ? What are various technologies behind a Cloud Storage service to support hundreds of millions users ? This tutorial covers technologies introduced by famous papers about Google File System and BigTable, Amazon Dynamo or Apache Hadoop. In addition, Parallel, Scale-out, Distributed and P2P approaches with Lustre, PVFS and pNFS with several proprietary ones are presented as well. This tutorial adds also some key features, such erasure coding, essential at large scale to help understand and differentiate industry vendors offering.

BIOGRAPHY

Philippe Nicolas is a recognized storage industry expert with more than 20 years of experience. He's currently advisor for several companies such Rozo Systems (www.rozosystems.com), Guardtime (www.guardtime.com) and Solix Technologies (www.solix.com). Previously, he drove the Industry Strategy at Scalify after leading the Product Strategy since 2011. Before, he initiated a P2P dispersed storage software project named KerStor. Previously, he was at Brocade for 2 years as technology evangelist and strategist and spent nearly 10 years at Veritas Software and Symantec in different technology and product roles. Prior 1997, he served various technical positions at SGI and Compaq. He holds an engineering degree in computer sciences from ESI.

In parallel, Philippe started the SNIA Europe France regional committee in 2001, and he served as Chairman for France until February 2010. He was also 2 times board director of the SNIA Europe in 2001-2002 and between 2007 and 2009. He created also 4 SNIA Tutorials around Data Sharing, File Storage, Massive Scalability and Cloud Storage since 2002. He received in 2005 the "Outstanding Service Award", from the SNIA Europe, for his industry and association contribution and he's a founding member of SNIA Cloud Storage Initiative.

He owns 2 famous French Storage blogs (<http://filestorage.blogspot.com/> and <http://continuousdataprotection.blogspot.com/>), #1 independent storage blog in France, with 2000+ blogposts and 10+ years of existence. His twitter account is @CDP_FST.