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TITLE

Active Media Store FOAK (First-of-a-Kind)

ABSTRACT

Active Media Store is based on Swift, the object store of Openstack. One key feature is content-aware access, the ability to find media objects based on their content and their relationships to other objects. A second key feature is the ability to run computations, called storlets, in the storage system to transform media objects (e.g., transcoding), analyze media objects (e.g., key frame extraction), and extract and enrich metadata. These features facilitate media production and processing in the cloud without incurring the costs for frequent uploads and downloads. We have an initial prototype running on SoftLayer and we are getting customer feedback on it through our First Of A Kind project. In this talk I will present the Active Media Store and our experience so far.

BIOGRAPHY

Hillel Kolodner is a Senior Technical Staff Member at the IBM Research - Haifa. He has worked on the implementation of Java for multiprocessor servers, especially on automatic memory management (garbage collection), as well as virtualization and management technologies for cloud computing. More recently he has been working on cloud object stores. He was principal investigator and technical lead for VISION Cloud, a recently completed EU FP7 project, which won the Special Award at IBC 2013 for its pioneering work on cloud object stores for media. Currently Hillel is leading work on the Active Media Store, a First-of-Kind project bringing the research technologies from VISION Cloud into IBM products and services. Hillel holds a Ph.D. and M.S. in Computer Science from the Massachusetts Institute of Technology, and a B.A. in Mathematics and a B.S.E. in Computer Science from the University of Pennsylvania.