3rd USENIX Workshop on Hot Topics in Storage and File Systems (HotStorage '11)

Sponsored by USENIX, the Advanced Computing Systems Association

http://www.usenix.org/hotstorage11

June 14, 2011   Portland, OR

HotStorage '11 will be part of the USENIX Federated Conferences Week, which will take place June 14–17, 2011.

Important Dates

Submissions due: *March 13, 2011, 9:00 p.m. PST*
Notification to authors: *April 14, 2011*
Electronic files of final papers due: *May 9, 2011*

Workshop Organizers

Program Chair
Irfan Ahmad, *VMware*

Program Committee
Remzi Arpaci-Dusseau, *University of Wisconsin, Madison*
Omer Asad, *Riverbed*
Austin Clements, *MIT CSAIL*
Peter Desnoyers, *Northeastern University*
K. Gopinath, *Indian Institute of Science*
James Lentini, *NetApp*
Dushyanth Narayanan, *Microsoft Research Cambridge*
Alina Oprea, *EMC/RSA*
Pradeep Padala, *DoCoMo USA Labs*
Anna Povzner, *IBM Research*
Raju Rangaswami, *Florida International University*
A.L. Narasimha Reddy, *Texas A&M University*
Yasushi Saito, *Google*
John Strunk, *NetApp*
Jun Suzuki, *NEC Japan*
Andy Twigg, *Acunu and University of Oxford*
Mustafa Uysal, *VMware*
Youjip Won, *Hanyang University*

Overview

Storage systems continue to present important research challenges and opportunities today. The rapid increase in the volume and variety of digital data, the trend toward using commodity components rather than custom-built hardware, the ability to insert new filesystem functionality transparently in hypervisors, the emergence of persistent storage memory technologies, the challenges of "big data," the rise of distributed key-value stores (such as nosql), and the proliferation of storage devices in consumer electronics all offer exciting opportunities and new challenges.

We expect the workshop submissions to advocate fresh, unorthodox approaches advancing the state of the art in file and storage systems design. Ideas presented in the workshop should provide a new look at storage technologies and eventually lead to work that will likely appear in top-tier systems conferences. The HotStorage workshop aims to bring together researchers interested in presenting their thoughts and engaging in discussions with their colleagues.

Topics

Topics of interest include but are not limited to:

- Cloud storage
- Storage for virtualized datacenters
- Clustered storage architectures
- Storage for mobile and embedded systems
- Key-value and "nosql" storage
- Solid-state storage
- Archival storage
- Storage at home
- Search and data retrieval
- Storage security
- Caching, replication, and data consistency
- Interactions of storage systems and databases
- The challenges of "big data"
- Storage system performance modeling and prediction

Logistics & Submission Instructions

This will be a full-day workshop. At least one author of each accepted paper must attend the workshop to present the paper. The presentations should stimulate healthy discussions among the workshop participants. Presentation details and guidelines will be communicated to the authors of the accepted papers.

Submitted papers must be no longer than five two-column pages, including all figures and references. They should be submitted electronically via the Web submission form on the HotStorage '11 Call for Papers Web site, http://www.usenix.org/hotstorage11/cfp, as PDF documents that are viewable by standard tools. Submissions must follow the USENIX formatting guidelines: 10 point type on 12 point (single-spaced) leading, with the text block being no more than 6.5" wide by 9" deep. See the detailed formatting requirements on the CFP Web site.

Simultaneous submission of the same work to multiple venues, submission of previously published work, or plagiarism constitutes dishonesty or fraud. USENIX, like other scientific and technical conferences and journals, prohibits these practices and may take action against authors who have committed them. See the USENIX Conference Submissions Policy at http://www.usenix.org/submissionspolicy. Questions? Contact your program chair, hotstorage11chair@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

The review process is not blind. The names and affiliations of the authors should be included on the first page. The names of the reviewers, however, will remain anonymous. Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the USENIX HotStorage '11 Web site; rejected submissions will be permanently treated as confidential. All

papers will be available online to registered attendees before the workshop. If your accepted paper should not be published prior to the event, please notify production@usenix.org. The papers will be available online to everyone beginning on the day of the workshop, June 14, 2011.