Announcement and Call for Papers USENIX

2nd USENIX Workshop on Hot Topics in Cloud Computing (HotCloud '10)

Sponsored by USENIX, the Advanced Computing Systems Association

http://www.usenix.org/hotcloud10

June 22, 2010 — Boston, MA, USA

HotCloud '10 will be part of the USENIX Federated Conferences Week, which will take place June 22–25, 2010.

Important Dates

Submissions due: *March 26, 2010*
Notification to authors: *May 7, 2010*
Final files due: *May 26, 2010*

Workshop Organizers

Program Co-Chairs
Erich Nahum, *IBM T.J. Watson Research Center*
Dongyan Xu, *Purdue University*

Program Committee
Magda Balazinska, *University of Washington*
Abhishek Chandra, *University of Minnesota*
Jeffrey Chase, *Duke University*
Brian Cooper, *Yahoo! Research*
Ian Foster, *University of Chicago*
Sharon Goldberg, *Microsoft Research and Boston University*
Albert Greenberg, *Microsoft Research*
Alyssa Henry, *Amazon Web Services*
Ramana Kompella, *Purdue University*
Hui Lei, *IBM Research*
Michael Locasto, *George Mason University*
Dejan Milojicic, *HP Labs*
Pradeep Padala, *DoCoMo USA Labs*
Niels Provos, *Google*
Sambit Sahu, *IBM Research*
Bianca Schroeder, *University of Toronto*
Liuba Shrira, *Brandeis University*
Bhuvan Urgaonkar, *Pennsylvania State University*
Jacobus van der Merwe, *AT&T Labs—Research*

Overview

Cloud computing has attracted a great deal of attention both from the research community and from industry. The cloud computing paradigm has evolved over the years from a basic IT infrastructure (data centers) to platform as a service (PaaS), and then from software as a service (SaaS) to complete service enablement on a hosted infrastructure (IaaS). At the same time, virtualization has emerged as a key enabler for the cloud computing paradigm. Several challenges arise in the design, implementation, and deployment of virtualized clouds. These challenges include but are not limited to automated service provisioning, service monitoring and management, resource elasticity, cloud programming models, economic models, charging and accounting, and, finally, virtualization-specific issues such as image management and virtual appliance-based service creation.

We believe that this emerging field will benefit from close interaction between researchers and industry practitioners, so that the research can inform current deployments and deployment challenges can inform new research directions. To foster such an experience, HotCloud will provide a forum for academics as well as practitioners in the field to share their experience, leverage each other's perspectives, and identify new/emerging "hot" trends in this area. We solicit six-page original/position/work-in-progress/experience papers on a broad range of topics that address fundamental issues in the enablement of applications, services, and infrastructures in a large-scale, virtualized cloud platform that includes deployment, monitoring, and management to address the issues of scale, reliability, root-cause analysis, dynamic resource planning, security and privacy, and new applications. We encourage the submission of position papers describing novel research directions, as well as those by leading researchers and industry experts describing practical experiences in these areas.

Topics

Topics of interest include but are not limited to the following:

- Platform as a service
- Software as a service
- Infrastructure as a service
- Elasticity and availability in a cloud
- Multi-tenancy
- Storage cloud
- Charging models and economics
- Power-efficient ("green") computing for clouds
- Virtual appliance management and composition
- Monitoring, troubleshooting, and failure recovery
- Cloud management and configuration
- Programming models
- Security and privacy in clouds
- New applications for clouds
- Mobile clouds
- Cloud usage scenarios

Submission Instructions

Submitted papers must be no longer than six two-column pages, including all figures and references, in 10 point type on 12 point (single-spaced) leading, with the text block being no more than 6.5" wide by 9" deep. The review process is not blind. The names of the authors as well as their affiliations should be included on the first page. Papers should be submitted as PDF documents viewable using standard tools (e.g., Adobe Acrobat). Submissions must follow the formatting guidelines and must be submitted via the Web submission form, both of which appear on the HotCloud '10 Call for Papers Web site, http://www.usenix.org/hotcloud10/cfp.

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 22, 2010.

Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the USENIX HotCloud '10 Web site; rejected submissions will be permanently treated as confidential.

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 co-chairs, hotcloud10chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

Rev. 3/22/10