

Workshop on Hot Topics in Cloud Computing (HotCloud '09)

Sponsored by USENIX, the Advanced Computing Systems Association

<http://www.usenix.org/hotcloud09>

June 15, 2009

San Diego, CA

HotCloud '09 will be co-located with the 2009 USENIX Annual Technical Conference (USENIX '09), which will take place June 14–19, 2009.

Important Dates

Submissions due: *April 22, 2009*

Notification to authors: *May 15, 2009*

Final files due: *May 26, 2009*

Workshop Organizers

Program Co-Chairs

Sambit Sahu, *IBM T. J. Watson Research Center*

Prashant Shenoy, *University of Massachusetts Amherst*

Program Committee

Jeff Chase, *Duke University*

Brian Cooper, *Yahoo! Research*

Chitra Dorai, *IBM T.J. Watson Research Center*

Ian Foster, *University of Chicago*

Albert Greenberg, *Microsoft Research*

James Hamilton, *Amazon Web Services*

David Irwin, *University of Massachusetts Amherst*

Terence Kelly, *HP Labs*

Orran Krieger, *VMware*

Ignacio M. Llorente, *Complutense University of Madrid*

K. K. Ramakrishnan, *AT&T Labs—Research*

Rajeev Rastogi, *Yahoo! Research, India*

Anand Sivasubramanian, *TCS, India*

Bhuvan Urgaonkar, *Pennsylvania State University*

Dongyan Xu, *Purdue University*

Overview

Recently Cloud Computing has attracted lots 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. 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 five-page original/position/work-in-progress/experience papers on a broad range of topics that address fundamental issues in the enablement of applications and services 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, 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
- Elasticity in a cloud
- Storage cloud
- Charging models
- Power-efficient ("green") computing for clouds
- Virtual appliance management and composition
- Scalable monitoring
- Problem management
- Programming models
- New applications on cloud
- Mobile cloud
- Cloud usage scenarios

Submission Instructions

Submitted papers must be no longer than five 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). Submit papers via the Web submission form on the HotCloud '09 Call for Papers Web site, <http://www.usenix.org/hotcloud09/cfp>.

All papers will be available online to registered attendees prior to the workshop and will be available online to everyone starting on June 15, 2009. If your accepted paper should not be published prior to the event, please notify production@usenix.org.

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, on the recommendation of a program chair, take action against authors who have committed them. In some cases, program committees may share information about submitted papers with other conference chairs and journal editors to ensure the integrity of papers under consideration. If a violation of these principles is found, sanctions may include, but are not limited to, barring the authors from submitting to or participating in USENIX conferences for a set period, contacting the authors' institutions, and publicizing the details of the case.

Authors uncertain whether their submission meets USENIX's guidelines should contact the program chairs, hotcloud09chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

Papers accompanied by nondisclosure agreement forms will not be considered. Accepted submissions will be treated as confidential prior to publication on the USENIX HotCloud '09 Web site; rejected submissions will be permanently treated as confidential.