

HotCloud '16: 8th USENIX Workshop on Hot Topics in Cloud Computing

June 21–22, 2016 • Denver, CO

Sponsored by USENIX, the Advanced Computing Systems Association

HotCloud '16 will be co-located with USENIX ATC '16, June 22–24, 2016.

Important Dates

Paper submissions due: **Tuesday, March 8, 2016, 11:59 p.m. PST**

Notification to authors: **Tuesday, April 12, 2016**

Final paper files due: **Thursday, May 12, 2016**

Workshop Organizers

Program Co-Chairs

Austin Clements, *Google*

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Overview

HotCloud brings together researchers and practitioners from academia and industry working on cloud computing technologies to share their perspectives, report on recent developments, discuss research in progress, and identify new/emerging “hot” trends in this important area. While cloud computing has gained traction over the past few years, many challenges remain in the design, implementation, and deployment of cloud computing.

HotCloud is open to examining all models of cloud computing, including the scalable management of in-house servers, remotely hosted Infrastructure-as-a-Service (IaaS), infrastructure augmented with tools and services that provide Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS).

We solicit original papers on a wide range of cloud computing topics for HotCloud. We particularly encourage the submission of position papers that describe novel research directions and work that is in its formative stages, as well as papers about practical experiences and lessons learned from production systems. Interesting issues show up at all levels of the software stack, but HotCloud’s emphasis is on combining mechanisms to build working clouds rather than on implementing new low-level mechanisms themselves. For example, papers on using virtual machines in new ways would be preferred over papers on improving core VM technology.

The HotCloud '16 program committee is placing a strong emphasis on encouraging early-stage ideas. As a workshop, our key role is to provide a place where novel ideas at their nascent stages can see the light of day long before they are ready for publication at the various “conferences of record.” Hence, we will be looking for papers that generate discussion and debate. A good way to think about this is that if you are only a few months away from submitting to SOCC, VLDB, OSDI, SOSP, FAST, etc., you are probably already past the sweet spot for HotCloud.



Topics

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

- Improving elasticity and availability in cloud infrastructure and cloud services
- Cloud support for new hardware technologies (e.g. accelerators and GPUs)
- Cloud data management and analytics
- Multi-tenancy and related issues such as performance isolation
- Charging models and economics
- Power-efficient (“green”) computing for clouds
- Monitoring, troubleshooting, and failure recovery
- Debugging and performance analysis of cloud applications
- Cloud management and configuration
- Virtual appliance management and composition
- Storage architectures for cloud computing
- Novel networking approaches for cloud computing
- Programming models
- Security and privacy in clouds
- New applications for clouds
- Mobility
- Integrating enterprise applications with the cloud
- Cloud operations
- Cloud workload management including migration to disparate clouds

Workshop Format

HotCloud this year will continue with the new format, introduced in 2015, in which workshop participants will be encouraged to participate more actively. A key element of this is a moderated discussion on each presented paper where contributions from workshop participants are highly encouraged. We’d like to hear from people about additional context, issues and prior work—not just ask questions. And we hope to foster discussions of alternate ideas to solve the same set of problems.

To allow this level of engagement, the accepted papers will be available for download at least a week in advance so participants can come prepared having read the papers.

Submission Instructions

Please submit your papers (no extended abstracts) in PDF format via the Web form linked from the Call for Papers Web site, www.usenix.org/hotcloud16/cfp. Do not email submissions.

The complete submission must be no longer than five (5) pages not including references. It should be typeset in two-column format in 10-point type on 12-point (single-spaced) leading, with the text block being no more than 6.5” wide by 9” deep. Submissions that violate any of these restrictions may not be reviewed. These limits will be interpreted fairly strictly, and no extensions will be given for reformatting. If you wish, you may use the LaTeX template and style file available at www.usenix.org/conferences/author-resources/paper-templates.

There are no formal restrictions on the use of color in graphs or charts, but please use them sparingly—not everyone has access to a color printer.

The names of authors and their affiliations should be included on the first page of the submission.

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 www.usenix.org/conferences/submissions-policy for details. Papers accompanied by nondisclosure agreement forms will not be considered. If you are uncertain whether your submission meets USENIX’s

guidelines, please contact the program co-chairs, hotcloud16chairs@usenix.org, or the USENIX office, submissionspolicy@usenix.org.

Reviewing of papers will be done by the program committee, potentially assisted by outside referees in limited cases. Accepted papers may be shepherded through an editorial review process by a member of the program committee.

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 first day of the workshop. Accepted submissions will be treated as confidential prior to publication on the USENIX Web site; rejected submissions will be permanently treated as confidential.

By submitting a paper, you agree that at least one of the authors will attend the workshop to present it. If the workshop registration will pose a hardship for the presenter of the accepted paper, please contact conference@usenix.org.

