

CrossCloud 2017

Colocated with EuroSys'17, 23rd -26th April 2017,
Belgrade, Serbia

CALL FOR PAPERS

CrossCloud is an international workshop series that aims to bring to light several issues related to cross-cloud systems: cloud federation, multi-cloud architectures, cross-cloud applications, and hybrid clouds. CrossCloud aims to attract researchers from both academia and industry to share and discuss their recent research and experiences in designing and operating multiple cloud systems. Work in this area extends over various topics including cross-cloud resource management, monitoring, service migration, API interoperability, portability, policy enforcement, benefit–cost analysis, and fault mitigation.

TOPICS OF INTEREST

Authors are invited to submit papers covering, but not limited to, the following topics:

- Cross-cloud systems: resource management across multiple clouds (e.g., resource allocation, load balancing, performance optimization, security and privacy policy enforcement).
- Containers and Virtual Machine (VM) management across several cloud infrastructures (e.g., VM placement and migration).
- Fog/edge computing: fog-based infrastructures, caching, performance and services.
- Micro-services: system design, monitoring and management using containers and/or microkernels to achieve cloud provider independence.
- Cross-Cloud agility: dynamic application deployment across multiple cloud platforms, flexibility in moving between different providers and vendors.
- Hybrid cloud infrastructures management: public and private clouds, heterogeneous cloud systems, cloud and grid systems.
- Cloud-bursting: workload offloading, multi-cloud resource scheduling strategies.
- Cross-cloud SDKs and APIs: design, maintenance, support and performance evaluation.
- Application portability: priorities, restrictions, and lock-in mitigation techniques and measures.
- Interoperability between managed services (e.g., MapReduce, DB, message queues, etc.), API interoperability.
- Decision support systems: efficient and open application deployment and monitoring across different cloud platforms and providers, cloud brokerage as a means of complexity outsourcing.
- Scalable multi-cloud monitoring: monitoring among different cloud environments, relevant metrics at the different levels of the stack (e.g., network access), monitoring overhead analysis.
- Experiences: deployment of heterogeneous multi-cloud environments, costs and benefits of cross-cloud management and deployment, challenges in existing cross-cloud platforms, case studies on building or federating multi-cloud systems.
- Cross-Cloud security: identity and access management across infrastructure boundaries, reconciling application security and privacy requirements across multiple SLAs.

SUBMISSION GUIDELINE

We solicit two types of submissions: (1) technical papers (max 6 double-column pages), and (2) posters (max 2 double-column pages). Each submission will receive at least 3 single-blind peer reviews. Authors of technical papers are also encouraged to prepare a poster to be displayed in the workshop's poster sessions.

IMPORTANT DATES

Paper Submission Deadline: January 30, 2017

Author notification: February 28, 2017

Camera-ready papers: March 31, 2017

Workshop day: April 23, 2017

ORGANIZING COMMITTEE

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For more information, please visit

bit.ly/CrossCloud