

Proceedings of the 28th Large Installation System Administration Conference (LISA14)

Message from the Program Chair.....v

Wednesday, November 12, 2014

Head in the Clouds

HotRestore: A Fast Restore System for Virtual Machine Cluster	1
Lei Cui, Jianxin Li, Tianyu Wo, Bo Li, Renyu Yang, Yingjie Cao, and Jinpeng Huai, <i>Beihang University</i>	
Compiling Abstract Specifications into Concrete Systems—Bringing Order to the Cloud	17
Ian Unruh, Alexandru G. Bardas, Rui Zhuang, Xinming Ou, and Scott A. DeLoach, <i>Kansas State University</i>	
An Administrator’s Guide to Internet Password Research	35
Dinei Florêncio and Cormac Herley, <i>Microsoft Research</i> ; Paul C. van Oorschot, <i>Carleton University</i>	

Who Watches?

Analyzing Log Analysis: An Empirical Study of User Log Mining	53
S. Alspaugh, <i>University of California, Berkeley and Splunk Inc.</i> ; Beidi Chen and Jessica Lin, <i>University of California, Berkeley</i> ; Archana Ganapathi, <i>Splunk Inc.</i> ; Marti A. Hearst and Randy Katz, <i>University of California, Berkeley</i>	
Realtime High-Speed Network Traffic Monitoring Using ntopng.....	69
Luca Deri, <i>IIT/CNR and ntop</i> ; Maurizio Martinelli, <i>IIT/CNR</i> ; Alfredo Cardigliano, <i>ntop</i>	
Towards Detecting Target Link Flooding Attack	81
Lei Xue, <i>The Hong Kong Polytechnic University</i> ; Xiapu Luo, <i>The Hong Kong Polytechnic University Shenzhen Research Institute</i> ; Edmond W. W. Chan and Xian Zhan, <i>The Hong Kong Polytechnic University</i>	

Thursday, November 13, 2014

High Speed

Automatic and Dynamic Configuration of Data Compression for Web Servers	97
Eyal Zohar, <i>Yahoo! Labs</i> ; Yuval Cassuto, <i>Technion—Israel Institute of Technology</i>	
The Truth About MapReduce Performance on SSDs.....	109
Karthik Kambatla, <i>Cloudera Inc. and Purdue University</i> ; Yanpei Chen, <i>Cloudera Inc.</i>	
ParaSwift: File I/O Trace Modeling for the Future	119
Rukma Talwadker and Kaladhar Voruganti, <i>NetApp Inc.</i>	

Wednesday, November 12, 2014

Poster Session

Pedagogical Framework and Network Laboratory Management Tool for Practical Network Administration Education	133
Zahid Nawaz, <i>University of Oslo</i>	
An Investigation of Cultural and Organizational Impacts on EKR Use and EKR Use Outcomes Among System Administrators at NASA	135
Nicole Forsgren, <i>Utah State University</i> ; E. Branson Matheson III, <i>Blackphone</i>	
Linux NFSv4.1 Performance Under a Microscope	137
Ming Chen, <i>Stony Brook University</i> ; Dean Hildebrand, <i>IBM Research—Almaden</i> ; Geoff Kuenning, <i>Harvey Mudd College</i> ; Soujanya Shankaranarayana, <i>Stony Brook University</i> ; Vasily Tarasov, <i>Stony Brook University and IBM Research—Almaden</i> ; Arun O. Vasudevan and Erez Zadok, <i>Stony Brook University</i> ; Ksenia Zakirova, <i>Harvey Mudd College</i>	
Demand-Provisioned Linux Containers for Private Network Access	139
Patrick T. Cable II, <i>MIT Lincoln Laboratory</i>	
Virtual Interfaces for Exploration of Heterogeneous & Cloud Computing Architectures	141
Hal Martin and Wayne G. Lutters, <i>University of Maryland</i>	
Time-Synchronized Visualization of Arbitrary Data Streams for Real-Time Monitoring and Historical Analysis	143
Paul Z. Kolano, <i>NASA Ames Research Center</i>	
Formalising Configuration Languages: Why is this Important in Practice?	145
Paul Anderson and Herry Herry, <i>University of Edinburgh</i>	