

LISA '10:
24th Large Installation System Administration Conference
November 7–12, 2010
San Jose, California

Message from the Program Chair v

Wednesday, November 10

11:00 a.m.–12:30 p.m.

A Survey of System Configuration Tools 1
Thomas Delaet, Wouter Joosen, and Bart Vanbrabant, DistriNet, K.U. Leuven

High Performance Multi-Node File Copies and Checksums for Clustered File Systems 15
Paul Z. Kolano and Robert B. Ciotti, NASA Ames Research Center

Fast and Secure Laptop Backups with Encrypted De-duplication 29
Paul Anderson and Le Zhang, University of Edinburgh

2:00 p.m.–3:30 p.m.

The Margrave Tool for Firewall Analysis 41
Timothy Nelson, Worcester Polytechnic Institute; Christopher Barratt, Brown University; Daniel J. Dougherty and Kathi Fisler, Worcester Polytechnic Institute; Shriram Krishnamurthi, Brown University

Towards Automatic Update of Access Control Policy 59
Jinwei Hu, University of Western Sydney and Huazhong University of Science and Technology; Yan Zhang, University of Western Sydney; Ruixuan Li, Huazhong University of Science and Technology

First Step Towards Automatic Correction of Firewall Policy Faults 75
Fei Chen and Alex X. Liu, Michigan State University; JeeHyun Hwang and Tao Xie, North Carolina State University

Thursday, November 11

9:00 a.m.–10:30 a.m.

- Using TCP/IP Traffic Shaping to Achieve iSCSI Service Predictability91
J. Bjørgeengen, University of Oslo; H. Haugerud, Oslo University College
- YAF: Yet Another Flowmeter.107
Christopher M. Inacio, Carnegie Mellon University; Brian Trammell, ETH Zurich
- Nfsight: NetFlow-based Network Awareness Tool119
Robin Berthier, University of Illinois at Urbana-Champaign; Michel Cukier, University of Maryland, College Park; Matti Hiltunen, Dave Kormann, Gregg Vesonder, and Dan Sheleheda, AT&T Labs—Research

2:00 p.m.–3:30 p.m.

- Using Syslog Message Sequences for Predicting Disk Failures135
R. Wesley Featherstun and Errin W. Fulp, Wake Forest University
- Log Analysis and Event Correlation Using Variable Temporal Event Correlator (VTEC).147
Paul Krizak, Advanced Micro Devices, Inc.
- Chukwa: A System for Reliable Large-Scale Log Collection163
Ariel Rabkin and Randy Katz, University of California, Berkeley

4:00 p.m.–5:30 p.m.

- How to Tame Your VMs: An Automated Control System for Virtualized Services.179
Akkarit Sangpetch, Andrew Turner, and Hyong Kim, Carnegie Mellon University
- Empirical Virtual Machine Models for Performance Guarantees.189
Andrew Turner, Akkarit Sangpetch, and Hyong S. Kim, Carnegie Mellon University
- RC2—A Living Lab for Cloud Computing201
Kyung Dong Ryu, Xiaolan Zhang, Glenn Ammons, Vasanth Bala, Stefan Berger, Dilma M Da Silva, Jim Doran, Frank Franco, Alexei Karve, Herb Lee, James A Lindeman, Ajay Mohindra, Bob Oesterlin, Giovanni Pacifici, Dimitrios Pendarakis, Darrell Reimer, and Mariusz Sabath, IBM T.J. Watson Research Center

Friday, November 12

9:00 a.m.–10:30 a.m.

- PeerMon: A Peer-to-Peer Network Monitoring System.209
Tia Newhall, Jānis Libeks, Ross Greenwood, and Jeff Knerr, Swarthmore College
- Keeping Track of 70,000+ Servers: The Akamai Query System223
Jeff Cohen, Thomas Repantis, and Sean McDermott, Akamai Technologies; Scott Smith, Formerly of Akamai Technologies; Joel Wein, Akamai Technologies
- Troubleshooting with Human-readable Automated Reasoning.239
Alva L. Couch, Tufts University; Mark Burgess, Oslo University College and Cfengine AS