NIST

Cloud Computing Forensic Science

National Institute of Standards and Technology – Gaithersburg, MD

Workshop

24 March, 2014

The New Frontiers in Forensic Science

Rapid advances in cloud computing require new methodologies for performing digital forensics in cloud environments. More than an incremental change, cloud computing is expected to radically alter first responders' and investigators' operations.

INVITED KEYNOTE SPEAKER:

Bill Murray, Manager – AWS Security Programs, Amazon

INVITED SPEAKERS:

Dr. Katrin Franke, Prof, Gjøvik Univ. College
Anil Karmel, Founder & CEO, C2 Labs
David Linthicum, SVP, Cloud Tech. Partners
Laura Taylor, President & CEO, Relevant Technologies
Dale Beauchamp, Branch Mng., DHS
Ken Zatyko, Vice President of Maryland Operations, Assured Information Security
Nancy Landreville, Professor, UMUC
Laura Taylor, President & CEO, Relevant Technologies
Josiah Dykstra, Researcher, DoD Defense
Inno Eroraha, Founder & CS, NetSecurity Co
Mike Salim, CTO, American Data Tech
Keyun Ruan, CRO, XENSIX Inc
Tomohiko Yamakawa, Director, NTT, Japan
Kristy Westphal, IS Officer, EPS
… AND MORE

The National Institute of Standards and Technology is hosting a new workshop on Cloud Forensic Science. Join experts in the fields of cloud, digital forensics, and measurement for thought-provoking plenary talks, panel presentations, facilitated discussion, and networking around these themes:

- Perspectives on Cloud Forensic Science
- The Vision for Cloud Forensic Science
- Current State of Cloud Forensic Science -- Challenges and Lessons Learned
- Path Forward for Cloud Forensics

WHO SHOULD ATTEND:

Leaders in cloud computing and digital forensics from the government, private, and academic sectors

Architects, researchers and implementers of cloud computing and mobility technologies

Sessions will feature discussion of issues and actions:
- **The Future of Forensic Science in the Cloud**
- **Challenges for Cloud Computing Forensic Science**
- **The Path Forward to Achieve the Vision**
  Panel /Facilitated discussion
  - What does the future state of cloud forensics look like?
  - What are the barriers to implementing the future state?
  - What does a road map to achieve the future state look like?

Cloud Computing Forensic Science Workshop

NIST, Gaithersburg, MD – March 24, 2014

NIST, GAITHERSBURG, BUILDING 101, GREEN AUDITORIUM
http://www.nist.gov/itl/forensic-science-workshop.cfm
Host and Technical POC: **Dr. Michaela Iorga, NIST**

8:00 AM – 9:00 AM   **Registration and Networking**

9:00 AM – 9:05 AM   **Workshop opening**
 Dr. Michaela Iorga, Co-Chair, FSWG, NIST

9:05 AM – 9:15 AM   **Welcome remarks**
 Dr. Chuck Romine, Director, ITL, NIST

9:15 AM – 9:30 AM   **Introduction to Workshop**
 Dr. Martin Herman, Senior Advisor for Forensics & IT, NIST

9:30 AM – 10:00 AM   **Keynote address: Cloud Forensics – Finding the needle in the stack of needles**

 Bill Murray, Manager – AWS Security Services, Amazon

10:00 AM – 11:20 AM   **Plenary Session 1**: **Cloud forensics challenges and lessons learned**
- **Anil Karmel,** Founder & CEO, C2 Labs Inc.
- **David Linthicum**, SVP, Cloud Technology Partners
- **Laura Taylor,** President & CEO, Relevant Technologies
- **Dale Beauchamp**, Branch Manager, IACSD, DHS

11:20 AM – 11:30 AM   **BREAK**

11:30 AM – 12:15 PM   **Cloud Forensics Challenges – NIST Cloud Computing Forensic Science Working Group**
- **Dr. Keyun Ruan**, Senior R&D Scientist, Espion, Ltd.
- **Mike Salim**, CTO, American Data Technology

12:15 PM – 1:15 PM   **Plenary Session 2**: **Cloud forensics "Musts", "Needs" and "Dreams"**
- **Tony Rutkowski**, EVP, Yaana Technologies
- **Dr. Katrin Franke**, Professor, NISlab, Gjøvik University College
- **Kristy Westphal**, IS Officer, Element Payment Services

1:15 PM – 2:15 PM **LUNCH**

2:15 PM – 3:15 PM **Panel Discussion: Next Steps in Cloud Forensics**

Moderator:
Dr. Josiah Dykstra, Computer Security Researcher, DoD

Panelists:
- **Ken Zatyko**, Senior Manager, Forensics Technology and Cybercrime, Ernst & Young
- **Dr. Nancy Landreville**, Professor, UMUC
- **Inno Eroraha**, Founder and Chief Strategist, NetSecurity Corporation
- **Tomohiko Yamakawa**, Research Program Director, NTT, Japan

3:15 AM – 3:30 PM **BREAK**

3:30 PM – 4:55 PM **Facilitated Discussion**: **Cloud Forensic Science Roadmap**
1. What does the future state of cloud forensics look like?
2. What are the barriers to implementing the future state?
3. What does a roadmap to achieve the future state look like?

Facilitators:
- **Dr. Martin Herman,** Senior Forensics Advisor, NIST
- **Robert Jackson**, VP, Operations, SphereCom Enterprises

Support:
- **Joshua Nail**, Program Manager, SphereCom Enterprises

4:55 PM - 5:00 PM **Meeting Summary and Roadmap briefing**

5:00 PM **Adjourn**