QuBit
conference

2014

11th – 12th June
Prague

UNIVERSE OF **CYBER SECURITY** AND DIGITAL FORENSIC

CLOUD AND SOCIAL NETWORKS RISKS

$$|\psi\rangle = \alpha|0\rangle + \beta|1\rangle$$

$$|\alpha|^2 + |\beta|^2 = 1$$

MOBILE SECURITY

$$\alpha|0\rangle = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$\beta|1\rangle = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

| 12:30 | **Network Forensic Investigation of a Hacked Web Server** |

Ondrej Krehel, Lifars LLC and Fibamo

| 15:00 | **Malware Analysis of Windows and mobile Android Systems** |

Ivan Bacigal, Forensic Expert

Day 1 Conference

| 8:00 | **REGISTRATION AND BREAKFAST** |

| 9:00 | **APT Part 1 - Cyber Risks and Digital Threats** |

Lukas Hlavicka, Head of Department, CSIRT.SK
- Overview and stages observed in APT attacks
- Attackers, victims and processes
- Exploited vulnerabilities and common mistakes in defense
- Methodology for defense and proactive reaction
- Main points in structure of defense
- Q&A

| 9:40 | **APT Part 2 - Methodology of defense and response** |

Lukas Hlavicka, Head of Department, CSIRT.SK
- Overview and stages observed in APT attacks
- Attackers, victims and processes
- Exploited vulnerabilities and common mistakes in defense
- Methodology for defense and proactive reaction
- Main points in structure of defense
- Q&A

| 10:40 | **MORNING COFFEE & NETWORKING** |

| 11:00 | **Cyber vectors and threats** |

Jan Kvasnicka, Symantec
- Cyber-threat classification and their impact on business
- Effective processes for risk reduction
- Hacking attacks, their classification, mobile and portable devices risks
- Advanced persistent threats and intellectual property frauds
- Q&A

| 12:00 | **LUNCHEON** |

| 13:00 | **Threat Intelligence from Event Correlation** |

Peter Kopriva, IS Security Specialist - Senior, Tatra banka, a.s.
- Data standards, and regulations, such as US breach statues, and EU Directive on privacy
- Industry standards for payment processing, including PCI DSS requirements
- Sectorial versus one umbrella approach in privacy and data protection
- Privacy by design concept
- Q&A

14:00 **Anti-detection Techniques in Network Communication**

🇸🇰 *Marian Novotny, Network Security Algorithm Designer, ESET*
- Present technologies used for detection and protection, such as IDS/IPS
- Implementation of technologies into various security designs
- Defining weakest links and implementing appropriate remediation steps
- Q&A

15:00 **AFTERNOON TEA & NETWORKING**

15:20 **Web Application Hacks and Security**

🇺🇸 *Jaroslav Nemcok, Web Security Resarcher, Lifars LLC*

16:00 **Mobile Security – Bottleneck or business enabler?**

🇩🇪 *Marcus Klische, Security Advisor Blackberry, Blackberry*

17:00 **Fraud Spam with Malware**

🇨🇿 *Andrea Kropacova, Czech CSIRT.CZ*

🇨🇿 *Karel Nykles, Forensic Laboratory Specialist, Cesnet*

18:00 **Career Fair Debate**

Samuel Leduc, Branch Manager at REED
Romana Martincova, Senior Business Manager, REED

20:00 **NETWORKING NIGHT DINNER AND PARTY**
- Join us after the conference with the awesome Opening Party shindig. Stay for a few rounds at Monastery Brewery located just across the street.

Day 2 Conference

8:00	**BREAKFAST**

9:00	**Biometrics in financial sector**

Marek Zeman, CISO, Tatra banka, a.s.
- Business reasons for biometrics implementation
- Possible business areas
- Logic and functional description implemented cases
- Control measures (FRR, FAR - how to measure this kind of parameter)
- Open questions/problems
- Attack vectors
- Q&A

9:40	**Windows and Android malware analysis**

Ivan Bacigal, Forensic Expert
- Lecture is covering fundamental aspects of reverse engineering and malware analysis.
- How to set up an inexpensive and flexible laboratory for understanding the inner-workings of malicious software.
- Understand how to use various tools for uncovering characteristics of real-world malware samples, and examine behavioral patterns and code, and discussing essential x86 assembly language concepts.
- Examine malicious code to understand vector of infections, static and dynamic analysis, and execution flow.
- Various characteristics of malware will be discussed such as bots, rootkits, keyloggers, downloaders and other types of malware.
- Q&A

10:40	**MORNING COFFEE & NETWORKING**

11:00	**Case Studies from Forensic Investigations**

Ondrej Krehel, Lifars LLC and Fibamo
- Technologies used for digital forensics, network forensic, volatile information and malware analysis. Incident response and forensic Triage.
- Techniques implemented in various forensics technologies and pros/cons.
- War stories, case studies, cases from real world.
- Q & A

12:00	**LUNCHEON**

13:00	**Digital Evidence Management Framework**

Miroslav Baca, Court Expert Witness, Professor at University of Zagreb at Faculty of Organization and Informatics
- Data-breach plan creation and implementation
- Framework for incident response plan, and its execution
- Integration of investigative techniques into corporate and government environments
- Role of human factor, and employee training
- Q&A

14:00	**Modern Attacks on Internet Banking Systems**

Petričko Dušan, Information security specialist, VÚB, a.s.

| **15:00** | **AFTERNOON TEA & NETWORKING** |

16:00 Bermuda Triangle of the Investment and Private Banking Cyber Frauds

🇸🇰 *Boris Mutina, Freelancer in IT security*

- Financial cyber frauds - three quick case studies
- Fraudster evolution, possibilities in the investigation and the recovery
- Countermeasures and ideas to think about in the future

17:00 Interactive Panel Discussion

🇸🇰 *Ivan Bacigal, Petričko Dušan, Ondrej Krehel, Boris Mutina, Jaro Nemcok, Marek Zeman*

- The audience has the opportunity to ask questions and open an interactive discussion with the speakers from Day 1 and Day 2

RESIDENCE

Lindner Hotel Prague Castle

Lindner Hotel Prague Castle
Strahovska 128
118 00 Prague

For speakers opportunity and other assistance please contact Kristina Novotna, QuBit Production and Operation Manager, at kristina.novotna@qubitconference.com