The Second International Workshop on Enterprise Security

Preface

Welcome to our second international workshop on Enterprise Security as part of CloudCom 2015, Vancouver, Canada, November 30-December 3, 2015. The first international workshop held in Singapore has been a major success since then we have achieved greater team activities, research, and international collaborations as the major and significant outcome of our first workshop on this topic. Enterprise Security involves all business, products, governments, organization, and their contractors. This also includes research areas of information security, software security, computer security, cloud security, IoT security, data and big data security. This workshop provides a significant contribution from experts on some of the following key research areas:

- Incident response Systems Security - This involves many organisations are outsourcing computer operations to third parties, and the next logical step is to outsource management of computer security incidents as well.
- Cloud Security Assurance Model - Defining proper measures for evaluating the effectiveness of an assurance model, which we have developed to ensure cloud security, is vital to ensure the successful implementation and continued running of the model. We need to understand that with security being such an essential component of business processes, responsibility must lie with the board.
- Cloud Security - The development of cloud computing and the vast use of its services poses significant security and privacy concerns to the people and the organizations relying on these services. Diversification and obfuscation approaches are of the most promising proactive techniques that protect computers from harmful malware, by preventing them to take advantage of the security vulnerabilities. Mission critical applications are limited in the cloud as it has various security issues. As the data size are being increased gradually and the difficulty in storing, retrieving and managing data makes the application to move into cloud.
- Cloud Forensics & Cryptanalysis and Enhancement - Password based authentication has been used extensively as a one of the most appropriate authentication techniques.
- Validating technology and BI Techniques – This is useful for organizations to understand their status with return and risk. They can evaluate their security policies and technologies regularly.
- Risk Analysis and Big Data – This is increasingly important for organizations since they deal with growing amount of data, dependency and complexity. Risk analysis can be applied to many areas related or outside cloud computing.

We are pleased to receive 24 papers from researchers of 12 different countries. After the vigorous review process and careful considerations, 11 papers have been selected, with 5 full papers and 6 short papers. We have offered two prize awards. One award is to award the best paper in the information system category. The other award is to award the best paper in the computational category. Each winner can be invited to International Journal of Information

Management (IJIM) and Future Generation Computer Systems (FGCS). Another good news we have is that extended version of conference papers and other security/risk researchers can contribute to our Springer book scheduled to call for papers after our workshop. We are honoured to have Dr. Konstantin Beznosov to be our keynote speaker.

Enterprise Security has been a popular topic since it includes cyber security, risk management, information security, Cloud and Forensic security, risk analysis and Big Data. It is an area that can make theory into practice and allow any organizations that adopt our recommendations to enjoy the benefits of enforced Enterprise Security. The outputs of our workshop can provide organizations with several useful recommendations, proofs-of-concepts and demonstrations to improve current security and risk practices.

We hope the second international workshop will foster collaborations of projects, research publications and funding opportunities at the international setting in Vancouver, Canada. Workshop Organizing Committee would like to thank CloudCom organizers for their fullest support.

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