Proposed Plan for **SecureAsi**@: Asi@Connect Security Training Workshop

Contact Person(s):

Principle Investigator(s):

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#### **EXECUTIVE SUMMARY**

Universiti Sains Malaysia (USM) and Malaysian Research and Education Network (MYREN) is pleased to provide a proposal to organize and run the SecureAsi@ workshop for year 2017 in Cyberjaya, Malaysia.

The proposed workshop is aimed at bringing Asi@Connect partners' network engineers and security administrators to the level qualified for the operation & management of network for their NRENs and therefore promote international collaborations as well as Asi@Connect applications.

As more and more security breaches being reported throughout the globe, it is such necessary that NRENs are more equipped to proactively identify potential security issues in their network BEFORE they are being exploited by hackers and malware. For that reason, this workshop is proposed to provide a combination of theoretical and practical knowledge/experience to the participants of the workshop in terms of a more secure NREN.

USM and MYREN will provide two of its security experts and will engage with University of Hamburg (UH), Germany to invite another expert in the field of Cyber Security to conduct the proposed workshop which will run over three (3) days. The plan for the workshop is jointly developed by USM, MYREN, and UH.

### **WORKSHOP OBJECTIVES**

- To provide an overview of Cybersecurity.
- To familiarize with concepts of malware, botnet, social engineering and other threats.
- To learn the latest Internet security techniques, firewalls etc.
- To provide a basic knowledge of ethical hacking using Kali Linux.

### **INFRASTRUCTURE**

### a. Internet Access:

MYREN will provide wireless access and/or wired access as per request.

### b. Venue:

MYREN will absorb all costs of venue rental for the proposed workshop.

# c. Laptops:

Each participant is requested to bring along their laptop to use during the course of the workshop. System requirements will be provided as per request of the instructors.

### d. Accommodation:

Participants will be accommodated at the Tunes Hotel Cyberjaya. This hotel is within walking distance to the workshop venue. MYREN will arrange four (4) nights' accommodation for all the workshop attendees.

# PROPOSED PROGRAMME

Dates: 23<sup>th</sup> - 25<sup>th</sup> October 2017 (3-days) Venue: MYREN NOC, Cyberjaya, Selangor, Malaysia

Time Schedule

Schedule	Time		
Session 1	09:00 - 10:30		
Morning Break	10:30 - 11:00		
Session 2	11:00 - 12:30		
Lunch Break	12:30 - 13:30		
Session 3	13:30 - 15:30		
Tea Break	15:30 - 16:00		
Session 4	16:00 - 17:30		

# Instructors

Full Name	Abbrv.	Email	Organization	Country
Dr. Shankar Karuppayah	SK	kshankar[at]usm[dot]my	USM/MYREN	Malaysia
Dr. Selvakumar Manickam	SM	selva[at]usm[dot]my	USM/MYREN	Malaysia
Prof. Dr. Mathias Fischer	MF	mathias[dot]fischer[at]	University	Germany
	74/1	uni-hamburg[dot]de	Hamburg	Germany

# Sessions

	Topic	Instructors	Theory	Practical/ Demo/				
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Day 1								
Session 1	Network and Physical Security	SM, MF	Χ					
Session 2	Malware and Botnets	SK, MF	Χ					
Session 3	(Distributed) Denial of Service (DDoS/DoS) Attacks	MF, SM	Х	Х				
Session 4	Social Engineering Attacks and Ethical Hacking	SM, MF	Х					
Day 2								
Session 1	Linux and Networking (Refresher)	SM, SK		X				
Session 2	Network Monitoring, and Intrusion Detection Systems (IDSs)	SM, MF	X	Х				
Session 3	Honeypots and Malware Sandboxes	MF, SK	Χ	X				
Session 4	Authentication and Access Control	SM, SK	Х					
Day 3								
Session 1	Identifying and Addressing Vulnerabilities (Part 1)	SK, SM		Х				
Session 2	Identifying and Addressing Vulnerabilities (Part 2)	SK, SM		Х				
Session 3	Penetration Testing	SM, MF		X				
Session 4	Capture the Flag (CTF) Session	SK,SM,MF		X				

### **WORKSHOP PARTICIPANTS**

Each Asi@Connect partners (from developing countries only) is allowed to send one (1) candidate, except for some\* partners that are allowed to send two (2) candidates; with financial support of air-fare, accommodation and per-diems, where applicable. The travel support will be provided by Asi@connect, covering the most economical roundtrip air-fare, accommodation and per diems for four (4) nights. The budget will provide for 25 pax to attend the workshop.

Partners that are allowed to send one candidate (16):

Bangladesh (BD), India (IN), Pakistan (PK), Philippines (PH), Sri Lanka (LK), Thailand (TH), and Vietnam (VN).

\*Partners that are allowed to send **two** candidates (7):

Afghanistan (AF), Bhutan (BT), Cambodia (KH), Laos (LA), Mongolia (MN), Myanmar (MM), Nepal (NP), Indonesia (ID) and Malaysia (MY).

## Support:

- 1. <u>Full support</u>: Travels + Accommodation + Diems (Euro 30 per night) for three (3) nights each participant
- 2. <u>Partial Support (Hosting Country</u>): Per Diem (Euro 30 per night) for three (3) nights each participant

## Budget Prepared Based on the following:

- 1. Collaboration between USM, MYREN, & UH.
- 2. Workshop held in MYREN, Cyberjaya, Malaysia
- 3. Workshop held over three (3) days.
- 4. 25 participants + three instructors + three (local) assistants + four project management team members.
- 5. All Delegates will stay at the Tune Hotel, near MYREN, as such no transport required. Accommodation will be arranged for all Delegates by Host.
- 6. As accommodation will be provided, per diem will reduce from Euro 90/day to Euro 30/day

### **EXPECTED RESULTS**

- 1. NREN participants are to be trained in security aspects of managing the NREN network
- 2. NREN participants to understand best practices and methodology to monitor and manage the network for improved performance and security
- 3. NREN participants to be equipped with knowledge of latest developments, technologies, and tools to ensure a more secure NREN
- 4. NREN participants to have an avenue to strengthen human network of the research and education community and to learn from each other's National Research and Education Networks best practices

~ END OF PROPOSAL ~