



5G/6G requirement: Security Threats On Data Centers in IoT Networks

Training Programme
by
Faculty of Engineering
Multimedia University

Overview

Why 5G? Why Internet of Things? Fifth generation (5G) and 6G are upcoming standard for wireless communications that coexists with the current LTE-A network to provide better performance. It is well known that the data is utilized in every aspects of human activities through data network in modern days, today 2021. Data exchange and communication is carried through wide ranges of devices. The network of data communication is known as the Internet of Things and Vast nature of data communication requires Data Center to process, store, and manage data effectively. The participants will learn practically about the important of Security in a Data Center to avoid unnecessary communication with illegitimate request. At the end of the program, participants will familiarize more on the Data center which is prone to security threat from cyber attackers that wish to overload the data center and overwhelm in Internet of Things (IoT) in today life. This workshop is useful in Telco and Computer Networking people in Malaysia for service satisfaction.

Objective

This workshop is expected to provide a good solid fundamental of Internet of Thing, 5G/6G and Data Centre which is demanded by Telco and computer network industries.

Target Audience

UG student, PG student, researcher, technician, engineer.

Prerequisite

None.

Training Methodology

Virtual Training.

Course Duration

2 days only (7 hours per day).

Content/Outline

1. Introduction to 5G/6G, Internet of Things
2. Algorithm for security threats on data centers in IoT network.
3. Distributed Denial of Service (DDoS) attack
4. Cisco Packet Tracer.
5. DDoS tool
6. Data Center, and Data Center Security Threats
7. Tentative: Morning (Theory and Concept), Afternoon (Hands-on and Practical)

Course Instructors

Assoc. Prof. Ts. Dr. Mardeni Bin Roslee

Assoc. Prof. Ts. Dr. Mardeni Roslee is an academician under Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia and he is a Chairman for Centre of Wireless Technology, Multimedia University. From 2019-2020, he is a Chairman of IEEE Malaysia Comsoc/VTS and Vice Chair of Malaysian Radar & Navigations, Malaysian Society for Engineering & Technology. He is the CEO and main founder of Armada Smart Tech MR Sdn Bhd. He is a registered Chartered Engineer with Engineering Council United Kingdom, and Member with The Institution of Engineering and Technology (IET), UK. His experiences include consultation, professional institution and academic sectors. His current research interests are 5G/6G wireless communication, satellite, Internet of Things. He has published 110 papers for indexed journals, conference proceedings, professional magazine and book chapters. He is the consultant for international, private and government sectors and as the principal investigator of research grants of industry, local and international level. His contributions to academic and the engineering profession over the years have earned him recognition nationally and internationally, he is the recipient of University Excellent Researcher Award for 2016 and 2018, Excellence in European Creativity Special Award 2018, World Invention Special Award 2019, and awarded Top Research Scientist in Malaysia 2020.

Administrative Details

Programme Logistics

Duration: 2 days (7 hours per day).

Dates, registration deadline and registration form:

Please refer to: <https://www.mmu.edu.my/foe/short-courses/>



Your Investment

	Condition	Price per Pax
Regular Fee	Students / MMU Alumni/ IEEE Students	RM600
	Public	RM1000
	Public (Group >5 pax)	RM900
	IEM/IEEE Members	RM900
Early Bird Fee	Students / MMU Alumni/ IEEE Students	RM400
	Public	RM800
	Public (Group >5 pax)	N/A
	IEM/IEEE Members	RM700

Method of Payment

Please refer to the next page.

Type of Payment	Method	Details
Local Transaction / Payment within Malaysia	Online Payment with JomPay	<ul style="list-style-type: none"> To get started, login to any preferred internet banking. Look for JomPay to begin the payment process. Enter Ref 1 & Ref 2. <div data-bbox="884 501 1359 577" style="border: 1px solid black; padding: 5px;">  <p>Billor Code : 22202 Ref-1 : <Participant IC/Passport> Ref-2 : Event Name*</p> </div> <p>JomPAY online at Internet and Mobile Banking with your Current, Savings or Credit Card account</p> <p>*Ref. 2: FOE5G6G</p>
		<ul style="list-style-type: none"> To get started, go to MMU website (https://www.mmu.edu.my/) > Admission > Financial Info > Payment Channel > Non Student ; <div data-bbox="874 869 1378 1016" style="border: 1px solid gray; padding: 5px;"> <p>E-Payment To begin the payment process, please click Student or Non Students</p> <p>  </p> <p>Student Non-Student</p> </div> <p>or scan the QR code below to begin the process:</p> <div data-bbox="976 1106 1235 1420" style="text-align: center;">  <div style="background-color: black; color: white; padding: 5px; display: inline-block;">SCAN ME</div> </div> <ul style="list-style-type: none"> Choose Category: Public Training Workshop Name Choose Your Participant Type: <ul style="list-style-type: none"> ✓ STUDEN (MMU, IEEE, IEM, Other Higher Learning Institution) ✓ PUBLIC ✓ GROUP (Group > 5 Pax) ✓ IEEE/M (IEEE/IEM Members)

Type of Payment	Method	Details
International Payment / Payment outside Malaysia	Online payment with Flywire 	<ul style="list-style-type: none"> To get started, go to mmulanding.flywire.com; or scan the QR code to begin the payment process: <div style="text-align: center;">  </div> <ul style="list-style-type: none"> Choose Conference for Non-students related

Note:

Please submit the proof of payment to organizer for clearance updating purposes within 2 working days.

Refund and Cancellation

Any refunds will be processed in 60 days. Should there be any cancellation, it may be due to the organizer not getting the minimum participants or the participant failing to attend the workshop due to unavoidable reason.

Disclaimer

Faculty of Engineering, Multimedia University reserves the right to change the instructors, date and to vary/cancel the programme should unavoidable circumstances arise. All effort will be taken to inform participants of the changes. Upon submission of the registration form, you are deemed to have read and accepted the terms.

Enquiries

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