

To: The JCU Community

ICT Week in Review - Week ending 26th May, 2017

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JCU Cybersecurity: Cybersecurity Awareness Pays

Elijah van der Kwast | Security and Risk Specialist | Information and Communications Technology

Cybersecurity awareness is one of the best investments you can make right now.

Let me explain.

I've been in continual communication with one of our business units here at JCU regarding Cybersecurity. This includes ongoing dialogue with the Director of the area as well as collaboration on a number of initiatives, including:

- Presentation at their staff meeting;
- Support when identifying phishing emails;
- Email communication on certain topics; and

- Reviews of publicly available information to reduce the availability of information to attackers.

These activities build awareness and understanding about cybersecurity threats, detection and response.

Just recently, the team detected an attack and were able to effectively report this so that we could put in place containment and recovery measures.

I am attributing this, in part, to the investment made by this business area in cybersecurity awareness.

While this doesn't mean we are perfect or that we won't have attacks in the future, it does reinforce the value of collaboration and awareness.

If you identify a need for cybersecurity awareness please do get in contact – from the philosophical to the practical, we have an awareness package to meet your needs.

Happy computing.

Software Update

1. Keeping the Microsoft Windows environment on your computer safe.

Microsoft release security updates for Windows 7, 8.1 and 10 every month. ICT staff test these security releases to ensure that they are compatible with our corporate Web applications and our Staff and Student Standard Operating Environment. Once testing has been completed and no impact verified, these updates are pushed out to every staff computer with a Windows operating system (your physical computer or a virtual computer running windows that you may be running on your physical computer).

Once the updates have been pushed out, you need to restart your computer to complete the installation process. A window will pop-up on your computer to advise that updates are waiting to be installed. You can also check if you have updates through the Microsoft Software Centre tool on your computers. Open up the tool under select Updates from the left hand side menu.

Restarting your computer (physical or virtual) is extremely important as it ensures that you are operating your device in the safest possible environment.

If you are using a computer at home that is running Windows 7, 8.1 or 10 it is important that you keep this device up to date with the security updates Microsoft deploy. There is a control panel with Windows where you define how you wish your computer to update. Again, remember you **MUST** restart your computer to complete the installation of these very important operating system updates.

2. GraphPad Prism Software

The current serial number for installation and use of Prism software expires on the 31/5/17. GraphPad have changed their service for the provisioning of downloads and serial numbers and ICT will now be responsible for the issuing of serial number keys.

For all active users of Prism, ICT will be sending you an email before the expiry date. This email will contain the following information.

- I. The new serial number for 2017/18, which will only work with V7 of the software
- II. Links to the Graphpad site where you can download the latest supported version of Prism for PC and Mac. **Please note** that there is no longer support for versions earlier than V7. For installation on your personally owned devices this information is important. To use this serial number you must upgrade your version of Prism to V7. Earlier versions will no longer work past the 31/5/17.
- III. For staff and postgraduate students who are using Prism on a JCU owned computer the latest version of Prism with the new serial number embedded will be available in the Software Catalogue on your PC or Mac early next week. You can download and install the latest version directly from the catalogue.

JCU does not hold an unlimited license agreement for GraphPad Prism so please ensure that you are only installing on your JCU owned computer and one personally owned computer.

What do all those words and phrases in Cybersecurity communications mean?

Here is a simply glossary of terms put together by UK's National Cyber Security Centre that you may find useful when trying to decipher some of the conversations and communications around CyberSecurity.

Antivirus: Software that is designed to detect, stop and remove viruses and other kinds of malicious software

Cyber Security: The protection of devices, services and networks- and the information on them- from theft or damage

Firewall: Computer hardware or software which uses a defined rule(s) set to constrain network traffic to prevent unauthorized access (or from) a network

Ransomware: Malicious software that makes data or systems unusable until the victim makes a payment

Two-factor authentication (2FA): The use of two different components to verify a user's claimed identity. Also K/A multi-factor authentication

Water-holing: Setting up a fake website (or compromising a real one) in order to exploit visiting users.

Phishing: Untargeted, mass emails sent to many people asking for sensitive information (such as bank details or passwords) or encouraging them to visit a fake website

Spear-phishing: A more targeted form of phishing, where the email is designed to look like it's from a person the recipient knows and/or trusts

Whaling: Highly targeted phishing attacks (masquerading as legitimate email) that are aimed at senior executives

Mathworks: Upcoming Seminar in Townsville and Cairns

Where: Townsville Campus Building 17 Room 101 (17-101)

Date: 31 May 2017

Time: 8:30 a.m. – 12.00 p.m.

Where: Cairns Campus Room A003-003

Date: 1st June 2017

Time: 8:30 a.m. – 12.00 p.m.

Overview

Machine Learning and Data Analytics with MATLAB

Machine learning is an integral part of data analytics, which deals with developing data-driven insights for better designs and decisions. In many data analytics applications, machine-learning models are either deployed to the web or databases, or integrated into enterprise systems for on-demand analytics. MATLAB can help you rapidly develop, evaluate, iterate, and choose the best predictive analytics algorithm, and easily integrate with your software, hardware, and operational processes. This session will uncover methods to:

- Handle diverse and/or Big Data
- Handle/create advanced algorithms, e.g., Machine Learning
- Integrate these algorithms onto enterprise systems

Sensor Data Analytics and Internet of Things (IoT)

In this session, we will give an outlook on how MATLAB provides a flexible and scalable solution for sensor data analytics. Through examples, you will learn how MATLAB can be used to:

- Access data from a variety of sources
- Pre-process and visualize data
- Using Neural Networks to build models for classifying data
- Deploy analytics for desktop or web applications, and embedded devices.

Building Deep Learning and Machine Learning models for Image Classification.

Big data and engineering techniques bring many opportunities to the world of analytics. Using this data to build accurate and robust models for prediction requires a rare combination of equipment, expertise, and statistical know-how. In this session, we will discuss the ease of handling large image data sets in MATLAB. We will then dive into feature

extraction from images and prepare for classification. Finally, the session concludes by providing insight into Deep Learning for object recognition in images and/or videos.

- Handling of large image data sets
- Feature extraction for image classification.
- Convolutional neural networks (CNN) for object recognition in images and videos

Highlights

You will learn how MATLAB:

- Enables subject matter experts to be data scientists, and quickly develop algorithms
- Allows you to access both business and engineering data
- Supports scalable computations
- Allows you to quickly deploy your applications on traditional IT and embedded platforms

Who Should Attend

Lecturers, researchers and post-graduate students who would like to update their MATLAB and Simulink skills or are just getting started and would like to learn from the experts.

About the Presenter

Mandar Gujrathi is an Applications Engineer with MathWorks specialising in data analytics, signal processing, and digital communications. He has over 12 years of experience working with MATLAB. In 2004 he was a Research Scholar on a project in Medical Physics. His doctoral research focused on addressing the crosstalk problem in digital subscriber lines and wireless communications. Following his Ph.D., he was a Lecturer at the University of Queensland until 2012. His interests include Machine Learning, Next-Generation communications, and Image Processing. He has a B.E. (electronics) from the University of Mumbai, India and M.E. and Ph.D. in digital communications from the University of Queensland, Australia.

To will need to go online to register for the seminars for [Townsville](#) and for [Cairns](#)

Completed Systems and Service Maintenance

n/a

Planned Maintenance

Information about Planned maintenance for this month is available on the [ICT Web Site](#)

Non-Scheduled ICT Service Disruptions

Information about ICT Service Outages is available on the [ICT Web Site](#)

Helpdesk Contacts

[JCU Singapore Campus](#)

Staff IT enquiries:

Phone: MIS +65 6709 3681-685

8:30am-6pm Mon-Fri

Email: ITHelpdesk@jcu.edu.au

Web Page: Log a call via the [ServiceNow Web Self Service Page](#)

Student IT enquiries:

Web Site: [IT on Campus](#)

Email: itr-singapore@jcu.edu.au

[JCU Brisbane Campus](#)

Student IT and support enquiries:

JCUB Learning and Support Team

Level 2, 349 Queen St

Phone: 07 3001 7813

8am-6pm Mon-Fri

Staff IT enquiries:

IT Helpdesk

Phone: 07 3001 8001

7am-7pm Mon-Fri

Email: ITHelpdesk@jcu.edu.au

Web Page: Log a call via the [ServiceNow Web Self Service Page](#)

[Other JCU Campuses and Study Centres - Cairns , Townsville , Thursday Island , Mt Isa , Mackay](#)

Student IT Enquiries:

Email: ITHelpdesk@jcu.edu.au

Phone: 15500 (on Townsville Campus) 21777 (on Cairns Campus and select Option 2)

Web Page: Log a call via the [ServiceNow Web Self Service Page](#)

On Campus: Infohelp Desk in Townsville & Cairns Library during Library Open Hours

Staff IT Enquiries:

Email: ITHelpdesk@jcu.edu.au

Phone: 15500 (on Townsville Campus) 21777 (on Cairns Campus) and select Option 1

4781 5500 (external) +61 7 4781 5500 (International)

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