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Security Issues of OAuth-based Single-Sign-On services in the Wild

Speakers:	Prof. Wing C. Lau - Associate Professor in the Department of Information Engineering - Director of the Mobile Technologies Center at The Chinese University of Hong Kong
Date:	16 November 2015, Monday
Time:	3:00 – 4:00 pm (Registration starts at 2:45pm)
Venue:	Conference Hall 1-2, G/F, Core Building 1, Phase 1, Hong Kong Science Park, Shatin, Hong Kong
Language:	English
Online Registration:	http://www.astri.org/registration-form/?pid=7556

Speaker's Biography



Prof. Wing C. Lau is currently an Associate Professor in the Department of Information Engineering and the Director of the Mobile Technologies Center at The Chinese University of Hong Kong. Wing received his BSc(Eng) degree from The University of Hong Kong and MS and PhD degrees in Electrical and Computer Engineering from The University of Texas at Austin. From 1997 to 2004, he was a Member of the Technical Staff within the Performance Analysis Department at Bell Laboratories in Holmdel, New Jersey, where he conducted research in networking systems design and performance analysis. Wing joined Qualcomm, San Diego, California, in 2004 as a Senior Staff Member conducting research on Mobility Management Protocols for the Next Generation Wireless Packet Data Networks. He also contributed actively to the standardization of such protocols in the Internet Engineering Task Force (IETF) and 3GPP2. Wing is a Senior Member of IEEE and a member of ACM and Tau Beta Pi. He is/has been a Technical Program Committee Member of various international conferences, including ACM Sigmetrics, MobiHoc, IEEE Infocom, SECON, ICC, Globecom, WCNC, VTC and ITC. He also served as the Guest Editor for the Special Issue on High-Speed Network Security of the IEEE Journal of Selected Areas in Communications (JSAC). Wing holds 17 US patents with a few more pending. His research findings have been published in more than 90 scientific papers in leading international journals and conferences. Wing's recent research interests include Online Social Network Privacy and Vulnerabilities, Resource Allocation for Big Data Processing Systems, Decentralized Social Networks, Authenticated 2D barcodes and their Applications.

Abstract

The Open Authentication (OAuth2.0) protocol has been adopted by online service providers worldwide to support Single-Sign-On and authorization operations. Despite numerous security analyses and implementation guidelines, fool-proof integration of OAuth 2.0 with 3rd-party web/mobile applications remains challenging. In this talk, we will share our recent discovery of various OAuth-related vulnerabilities among practically deployed systems which can result in massive privacy leaks and/or large-scale unauthorized access to online services. We will also introduce a model-based security testing tool to support automatic scanning and auditing for OAuth implementations and deployments in practice.