Report

of

ONE DAY NATIONAL LEVEL

TECHNICAL WORKSHOP

On

CYBER SECURITY

&

PENETRATION TESTING

Organized by

Gujarat Technological University
&
Raksha Shakti University

Date: 11th February, 2017

Venue: B-0 Conference Hall, GTU, Chandkheda

With the visionary leadership of our Honourable Vice Chancellor, Prof. (Dr.) Navin Sheth, PG Research Centre for Cyber Security organized One Day National Level Technical Workshop On Cyber Security & Penetration Testing in association with Raksha Shakti University (RSU). Motivation behind conducting workshop is to broadcast knowledge and current research on cyber security among faculties, research scholars and students for further explore the field.

The workshop was initiated by Ms. Ekta Singh, student of Raksha Shakti University by welcoming the guests and all participants and gave an introduction of the experts to all the participants.

Penetration testing is a mix of different tools and techniques by which enhanced cyber security may be achieved as it evaluate the security of an IT infrastructure by safely trying to exploit vulnerabilities. These vulnerabilities may exist in operating systems, service and application flaws, improper configurations, or risky end-user behaviour. Such assessments are also useful in validating the efficacy of defensive mechanisms, as well as, end-user adherence to security policies.

It was attended by M. Tech & PhD CSE & IT students, Faculty offering courses on CSE & IT programs, Practitioners of Information and network security and other professionals. Total 400 registrations were received out of which only 80 were confirmed.

Expert Session Detail:

Session I : Mr. Mukesh Choudhary , Cyber Expert & CEO Cyberops, Jaipur

Information Security, Penetration Testing & Web Hacking Case Studies

Mr. Mukesh Choudhary is an IT professional specialising in Information Security and Cyber Crime Consultancy. Supported by Bureau of Police Research & Development, Ministry of Home Affairs, Gov. of India as a regular resource person for Cyber Crime Investigation trainings.

He share his experience and the real challenges of cyber security field of hacking and defacement of Indian website by different attacker. He practically show the vulnerability present in several know Indian education sites and aware the attendee regarding it.

Session 2 . Mohit P. Tahiliani, National Institute of Technology, Karnataka

Network security lectures and hands on sessions in the topic like Challenges in Data Centre Networking and ns-3.

Dr. Mohit P. Tahiliani has completed his B.E and M. Tech in Computer Science & Engineering from Visvesvaraya Technological University, Belgaum, Karnataka, INDIA in the year 2007 and 2009 respectively.

He tell the audience about the physical systems required to secure the IOT devices from the cyber attacks. NIT Karnataka have a well furnished lab for IOT security even available for the research to perform some security related task. He welcomes all the researcher to contribute in the process because IOT security is the major field in future having vast scope for research.

Explain following aspects on Secure networking:

- Paranoid Networking, a mechanism to restrict network I/O to certain processes which holds certain permissions.
- Supports certificate blacklisting and certificate pinning to ensure secure SSL connections.
- Android devices can connect to various types of VPNs, including PPTP, L2TP/IPSec, and SSL-based VPNs.
- Supports Always On and Application level VPNs.
- Supports pre-shared key Wi-Fi authentication mode, along with various WPA Enterprise configurations, namely PEAP, EAP-TLS, EAP-TTLS, and EAP-PWD
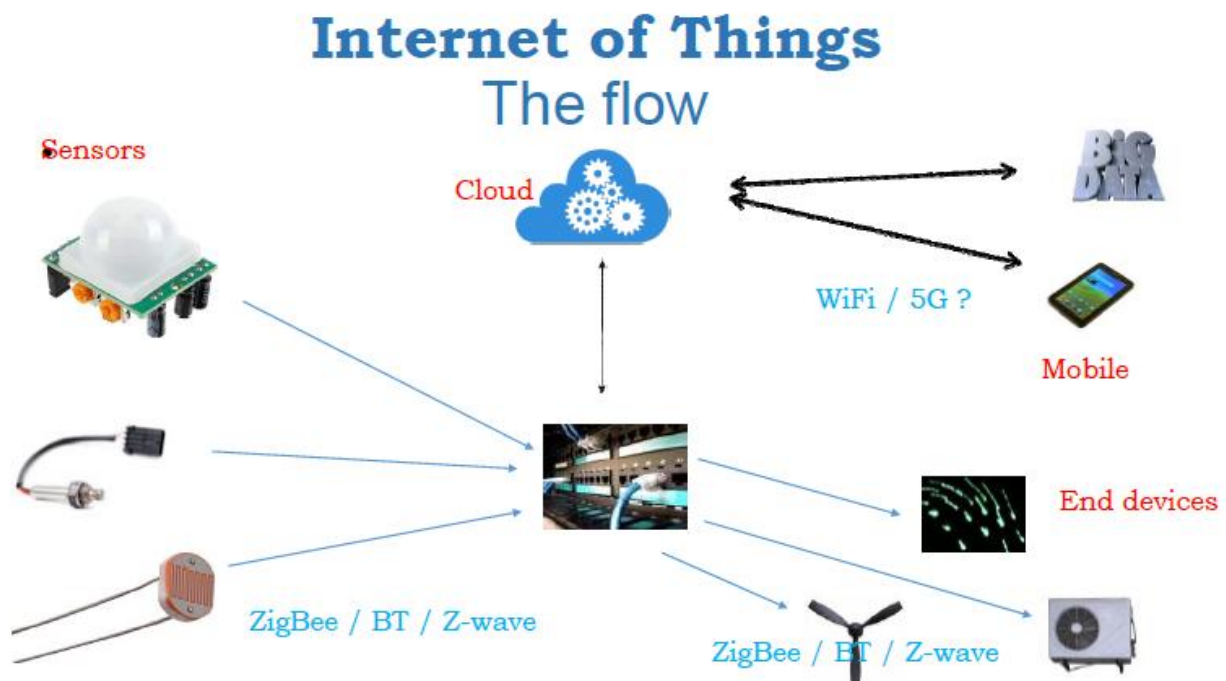
Session 3 : Mr. Viral Parmar, COMEXPO

Mr. Viral Parmar show the practical working of reverse engineering. He find the key of Key logger using different tools. Beside it, he describe the working of burp suite to capture the live real packets presents in network.

The entire workshop was very well delivered by all three experts and ended with the valuable support of participants and students of the GTU PG School & RSU.

The whole workshop was coordinated by and Mr. Darshan Patel, Assistant Professor, GTU and Dr. Priyanka Sharma, RSU.

PHOTO GALLERY