



25 Glorious Years



Sponsored by DeitY, Govt. of India under the project "Implementation of distributed honeynet system at North East to collect, distribute and analyze live cyber-attack data"

Presenting

A 2-days Workshop

on

Knowing Cyber Attack – Adopting

Honeynet

March 6th -7th, 2018

Organized by

Department of Computer Science and Engineering, Tezpur University, Assam

In collaboration with

CDAC Mohali



About the Workshop

The cyber threat landscape is constantly evolving with new attacks and techniques. The variety and the dynamic nature of the attack make it challenging to analyze the attacks. The same attack can be occurring at various locations and in various time frames. As many security people will tell you, it takes a community of people dedicated to researching, developing and maintaining security tools, systems and services to be able to combat it. One such community is The Honeynet Project.

CDAC Mohali has been working in this area since many years and has developed intensive resources and infrastructure for continuous capturing and collection of advance threats spreading across the internet. The Honeynet system allows to collect live Cyber Attack data from the live environment. It saves the time and efforts involved in multiple redeployments required for collecting data, for research and analysis purposes through implementation and deployment of Distributed Honeynet System. The researchers thereby gainfully can use their time for independent research and analysis as perceived, based on the collected real data, which otherwise is not available from elsewhere. The data available from any other place would be anonymized, as also the context and Meta data associated with it would not be available. Thus to understand the complete attack semantics the complete data with associated Meta data is made available.

The two days' workshop is proposed to combat the latest attack spreading and damaging the internet eco-system. The sessions will be delivered by highly experienced expert speakers, including the creators and developers of many of the most popular honeypot and cyber deception tools.

Themes of the workshop include

- Latest developments Honeynet technology and practical use cases to detect recent cyber threats with honeypots at large scale.
- Different strategies and techniques to effectively mislead attackers, logging and analysis of malicious events.
- In-depth malware analysis and ways to conduct incident responses.

B. Borah
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Head
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About Department of Computer Science and Engineering , Tezpur University



The Department of Computer Science and Engineering was established in 1994 and it is one of the oldest Departments of the University. The Department has been recently recognized as a Centre of Excellence in Machine Learning and Big Data Analytics by MHRD, Government of India under FAST. The Department is also recognized by UGC under Special Assistance Programme (SAP DRS Phase II). During 2005-09& 2017-22 the Department received support from the Department of Science and Technology (DST), Govt. of India under its FIST- program. The Department has also been recognized as ISEA member, MeitY, GoI and BRICS-NU Member. The Department has been carrying out active research in the fields of computational theory, computer networks, network security, mobile computing, soft computing and data mining, natural language processing, workflow management, qualitative spatial reasoning, web services, rehabilitation robotics, pattern recognition, bioinformatics, image processing algorithms, speech processing, computational geometry, machine learning and remote sensing image analysis. The Department offers four academic programmes- B. Tech. in Computer Science and Engineering, Master of Computer Application (MCA), M. Tech. in Information Technology and Ph. D. in Computer Science and Engineering.

Venue and Schedule

Date & Time :March 06-07, 2018, 10.00am – 5.00pm

Venue: Seminar Hall, Department of Computer Science & Engineering, Tezpur University

Who can attend

The workshop is open to all

- Student at any level (B.Tech/MCA/M.Sc/M.Tech/Ph.D)
- Faculty from academic institutions and technical institutions.
- Working professionals/Researchers from private, service, and government organizations including R&D laboratories

How to apply

There will be no registration fee. The interested participant should send an email expressing his/her interest to join wshoneypot2018@gmail.com on or before **28/02/2018**. No TA/DA will be paid to the participant to attend the program. Accommodation to the outstation participants will be arranged in the Tezpur University Guest House and Hostels subject to availability and charges have to be borne by the participants.

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How to reach Tezpur University

Please find the road routes, train and air connectivity to Tezpur University at www.tezu.ernet.in/visitor/site.htm

Organizing Committee

PATRONS

Prof. Madan M. Sarma, Vice-Chancellor, Tezpur University
Shri Vinod Kumar, Senior Director, CDAC Mohali

CHIEF GUEST

Prof. Sukumar Nandi, IIT Guwahati

ADVISORS:

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Prof. D. K. Bhattacharyya, Dean, Academic Affairs, TU
Prof. C. L. Mahanta, Dean, SoE, TU
Prof. N. Sarma, CSE, TU
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Two Day Workshop On “Knowing Cyber Attack -Adopting Honeynet”

Under project

“Implementation of Distributed Honeynet System at N.E to collect, distribute and

PROGRAM SCHEDULE

DAY 1: 06/03/2018

S.No	Topics	Speaker	Time	Duration
1	Registration for workshop		9:30AM - 10:00 AM	30 Min
2	Inauguration & Release of N.E Honeynet	Guest of Honor	10:00AM - 10:30 AM	30 Min
3	Tea Break		10:30AM - 11:00 AM	30 Min
4	Talk	Prof. S. Nandi	11:00AM - 12:00 PM	1 hr
5	Talk	Prof. DK Bhattacharyya	12:00PM - 1:00 AM	1 hr
6	Lunch Break		1:00PM - 2:00 PM	1hr
7	Keynote Speakers Honeynet Technology: <ul style="list-style-type: none"> • Proliferation in professional postgraduate system-Need of the hour & efforts • Honeynet Technology Collection, Analysis, Detection & Mitigation • Benefits to academic & research scholars at NE and roadmap of technology growth • Emerging N/W Attack & Threat Scenarios 		2:00 PM - 2:30 PM	30 Min
8	Interaction		2:30 PM - 2:45 PM	15 Min.
9	Honeynet Technology Overview <ul style="list-style-type: none"> • Honeypots & its types. • Issues related to Deployment, Operations & Management, Distributed Honeynet System, Value Honeynet adds in Network security . 		2:45 PM - 3:30 PM	1.00 Hr
10	Tea Break		3:30 PM - 4:00 PM	30 Min.
11	Catching attackers using		4:00 PM -	1.00 Hr

B. S. Saha
21/02/2022

	<p>Honeypots\HoneyNet Brief Overview:</p> <ul style="list-style-type: none"> • Honeypot Tools and techniques for “Attack Data collection”. • Demonstration with Hands on : (audience expected to bring Laptop) <ul style="list-style-type: none"> 1) Dionaea 2) Honeyd • Network Traffic Analysis, PCAP Analysis, TCP Dump analysis (Wireshark). <p>Network Attacks and their Analysis Brief overview:</p> <ul style="list-style-type: none"> • Attack targeting network services (Buffer Overflow, Heap spray, ROP). HoneyNet attack data analysis using open source tools. • Shellcode Detection Challenges and Techniques. 		5:00 PM	
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Day 2: 07/03/2018(Wednesday)

S.No	Topics	Speaker	Time	Duration
1	Talk		9:30 AM-10:30 AM	1 hr
2	Tea Break		10:30 AM-11:00 AM	30 Min
1	<p>Static Malware Analysis Brief overview:</p> <ul style="list-style-type: none"> • HoneyNet as Malware Capturing device, Analysis of captured malware samples using techniques such as sandboxing and debuggers. 		11:00 AM -12:00 PM	1 Hr
2	<p>Dynamic Malware analysis using Sandbox</p> <ul style="list-style-type: none"> • Why Sandbox • Cuckoo Sandbox • Binary Analysis <p>Demonstration</p>		12:00 PM -1:00 PM	1 Hr
	Lunch Break		1:00 PM -2:00 PM	1 hr
3	<p>Demo Session</p> <ul style="list-style-type: none"> • Installation & Configuration of HoneyNet Node • Demonstration of Web GUI CyberView System 		2:00 PM -4:00 PM	2 Hr
5	Feedbacks & Information Gathering			

13/03/2018
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Workshop on Knowing Cyber Attack Adopting Honeynet
Department of Computer Science and Engineering, Tezpur University, Assam



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Photographs of Workshop on Knowing Cyber Attack Adopting Honeynet

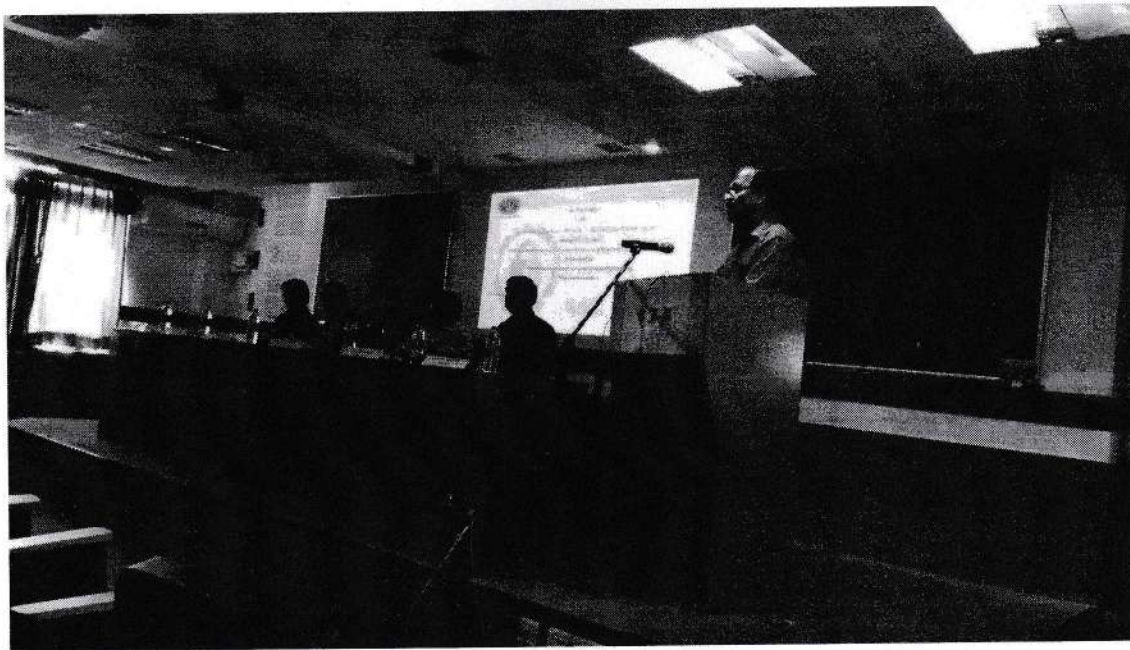


Photo1: Inauguration speech by Prof. N Sarma, TU



Photo2: R. Sehgal, Joint Director, CDAC Mohali delivering Lecture

R. Sehgal
09/02/2022
Head
Department of Computer Science & Engg
Tatyur University



Photo1: Prof. S. Nandi, IITG delivering Lecture

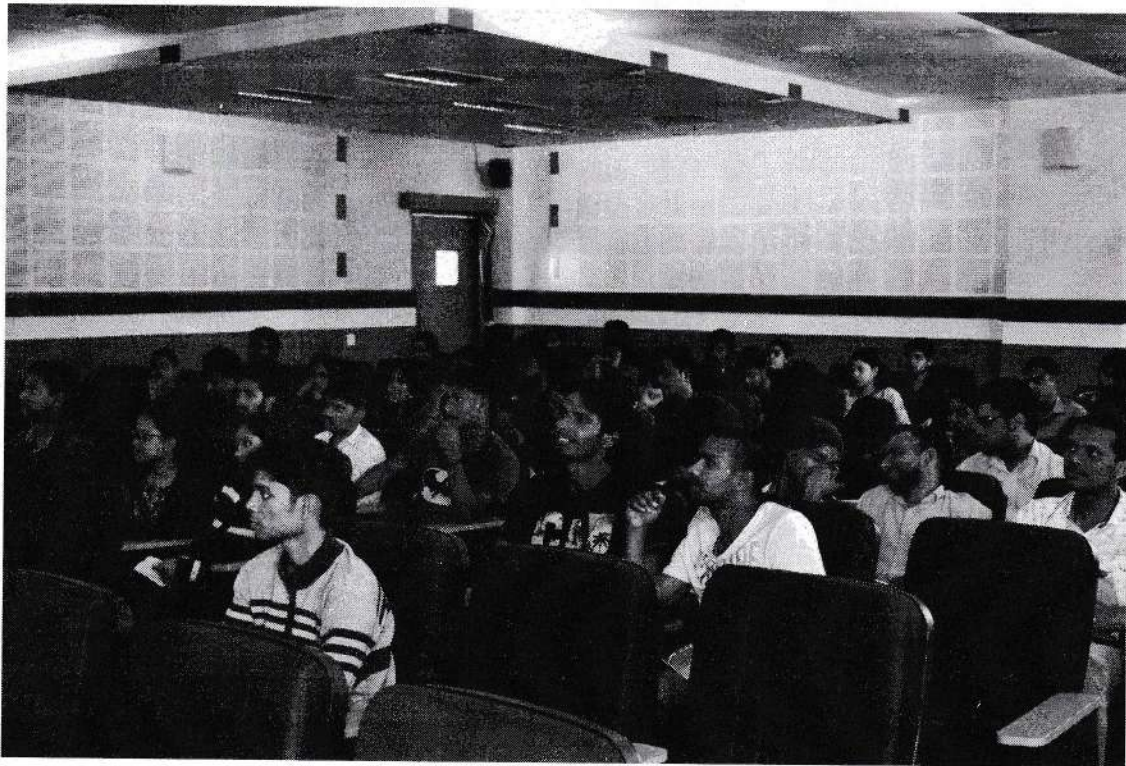


Photo4: Participants during the event

18/02/2022
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