



Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

Castle Hills, Road No. 1, Masab Tank, Hyderabad-57, India.

e-Programme on

MALWARE ANALYSIS

February 15 – 18, 2022

Introduction

Malwares are today nightmares to security teams of the organizations. Malwares can give the complete control of the infected system and the infected network to the attackers. Examples of their capabilities include credential stealing, data exfiltration, carrying out unauthorized transactions, encrypting enterprise data and preventing accessibility of the systems. On the contrary, malwares are being widely spread through e-mail attachments, malicious websites and other social media channels.

Over the years, the banking and financial sector has seen a series of dangerous malware-based attacks in the forms of ATM cash out, proxy ATM switch, unauthorized SWIFT transactions, unauthorized changes in the core banking, and crypto-ransomwares. Given the significance of these incidents, it is recommended that organizations develop in-house capability to deal with any kind of suspicious files. Moreover, for any identified malware, the organizations need to quickly find out indicators of compromises by analysing the malware sample. This malware analysis may help us to discover the C&C server IPs/URLs, process and file level artefacts in the systems and other behavioural changes in the infected system. It will, in turn, help the organization to discover the depth of the infection.

Objective

In this context, the objective of this e-Program on “Malware Analysis” is to enhance internal capability of the organizations to carry out this type of analysis on any suspected/identified malware sample.

Contents

This e-Program will cover (a) static and (b) dynamic analysis of malware with practice sessions for carrying out hands-on exercises by the participants.

Mode of Teaching

Online teaching plus learning inputs through reading material, videos, webinars, assignments, demonstrations, online interactions and clarifications. Each e-Programme will have four live webinars and course material will be made available in advance for study.

Who Can Participate?

Employees from Information Technology and Information Security departments of banks and other financial organizations (across various levels of hierarchy) can attend the programme.

End Use:

Knowledge about malware analysis techniques will help the organization to take a speedy action in case of a malware-based incidence. Faster discovery of other artefacts related to the infection may lead to develop and apply the indicators/preventive controls at the earliest.

Programme Coordinator:

Dr. Rajarshi Pal, Assistant Professor, IDRBT; e-mail: prajarshi@idrbt.ac.in

Fees:

For Indian Participants

- RRBs & Coop Banks: Rs. 11,800/- (Rs. 10,000/- + 18% GST)
- All Other Banks & Financial Institutions: Rs. 14,750/- (Rs. 12,500/- + 18% GST)

For International participants

- US \$ 220 (per participant, All inclusive)

Bank Account Details for Remittance of Fees

The fees for this e-programme can be remitted to the following accounts:

For Indian Participants

Account Name : IDRBT
Bank & Branch : Axis Bank Limited, Humayun Nagar, Mehdiapatnam, Hyderabad
Account No. : 426010100018823
MICR Code : 500211012
IFSC Code : UTIB0000426

For International participants

Receiver's Correspondent Bank : JP Morgan Chase, New York, USA
Swift Code : CHASUS33XXX
Fed Wire Routing Number : ABA 021000021
Beneficiary Bank & Branch : Axis Bank Ltd., Mumbai, India
Account Number : 0011407376
Beneficiary Bank Swift Code : AXISINBB

Ultimate Beneficiary

Account Name : IDRBT
Customer ID : 030021632
Account No. : 426010100018823
Bank & Branch : Axis Bank Ltd., Jubilee Hills, Hyderabad, India. (AXISINBB030)

Nominations

Banks may nominate any number of participants to these e-Programmes, which may be accepted on a first-cum-first-served basis. While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No/Phone No, email address, fees billing address, GST No. of the Bank).

Apart from nominations by banks, staff members of banks can self-nominate themselves for these e-Programmes by providing their employee credentials and paying the programme fee latest by **February 14, 2022**.

How to Register

The nominations for these e-Programmes, and queries if any, may please be sent to eprogram@idrbt.ac.in. Please visit <https://www.idrbt.ac.in/eprogrammes> for more details about these programmes.

e-Programmes in February 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Threats to Digital Payment Ecosystem	01 – 04	Dr. Susmita Mandal	Jan 31, 2022
2	Distributed Ledger Technology and Banking Applications	07 – 10	Dr. N. V. Narendra Kumar	Feb 04, 2022
3	IT Project Management	08 – 11	Dr. Abhishek Thakur	Feb 07, 2022
4	Technologies for Financial Inclusion	08 – 11	Dr. M. V. N. K. Prasad	Feb 07, 2022
5	Video Analytics in Banking & Finance	14 – 17	Dr. Mridula Verma	Feb 11, 2022
6	Malware Analysis	15 – 18	Dr. Rajarshi Pal	Feb 04, 2022
7	Dark Web Monitoring for Threat Intelligence	15 – 18	Dr. B. M. Mehtre	Feb 14, 2022
8	RBI Guidelines on Cyber Security	21 – 24	Dr. Dipanjan Roy	Feb 18, 2022
9	Virtualization and Cloud Computing	22 – 25	Dr. P. Syam Kumar	Feb 21, 2022
10	API Security and Governance	Feb 28 – Mar 03	Dr. Abhishek Thakur	Dec 27, 2021

e-Programmes in March 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Workshop on Registration Authority Operations	01 – 04	Dr. N. P. Dhavale	Feb 28, 2022
2	AI/ML and Data Science for Banks	01 – 04	Dr. V. Ravi	Feb 28, 2022
3	Proactive Cyber Defence Strategies	07 – 10	Dr. Dipanjan Roy	Mar 04, 2022
4	Introduction to Authentication Techniques	08 – 11	Dr. M. V. N. K. Prasad & Dr. N. P. Dhavale	Mar 07, 2022
5	Recent Cyber Crimes and Defences	08 – 11	Dr. Rajarshi Pal	Mar 07, 2022
6	Data Centre Management	14 – 17	Dr. P. Syam Kumar	Mar 11, 2022
7	Emerging AI/ML Technologies	14 – 17	Dr. Mridula Verma	Mar 11, 2022
8	Big Data Analytics through Elastic Map Reducer for Banks	21 – 24	Dr. V. Ravi	Mar 11, 2022
9	Mobile Banking, Social Media Banking and Mobile Security Testing	21 – 25	Dr. V. N. Sastry	Mar 18, 2022
10	Targeted Attacks - Detecting in Early Stages	22 – 25	Dr. B. M. Mehtre	Mar 21, 2022
11	Secure Coding Practices	22 – 25	Dr. V. Radha	Mar 21, 2022
12	Re-envisioning Digital Banking Systems	28 – 31	Dr. Susmita Mandal	Mar 25, 2022

e-Programmes in April 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Distributed Ledger Technology and Banking Applications	04 – 07	Dr. N. V. Narendra Kumar	Apr 01, 2022
2	Technologies for Financial Inclusion	04 – 07	Dr. M.V.N.K. Prasad	Apr 01, 2022
3	Workshop on Registration Authority Operations	05 – 08	Dr. N. P. Dhavale	Apr 04, 2022
4	AI/ML for Cyber Security	05 – 08	Dr. Rajarshi Pal	Apr 04, 2022
5	Adversarial ML for Banks	18 – 21	Dr. V. Ravi	Apr 13, 2022
6	Smart Banking using AI and ML	18 – 21	Dr. Mridula Verma	Apr 13, 2022
7	Cyber Forensics for Cyber Defence - A Proactive Approach	19 – 22	Dr. B. M. Mehtre	Apr 18, 2022
8	API Development	19 – 22	Dr. V. Radha	Apr 18, 2022
9	Future of Innovative Smart Banking	25 – 28	Dr. Susmita Mandal	Apr 22, 2022
10	Security in Cloud Computing	26 – 29	Dr. P. Syam Kumar	Apr 25, 2022
11	Introduction to Hardware Security	26 – 29	Dr. Dipanjan Roy	Apr 25, 2022

e-Programmes in May 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Re-imagining customer engagement with conversational Chatbots	09 – 12	Dr. Mridula Verma	May 06, 2022
2	Introduction to Governance, Risks and Compliance	10 – 13	Dr. Abhishek Kumar Thakur	May 09, 2022
3	Continuous Security Validation	10 – 13	Dr. V. Radha	May 09, 2022
4	Secure Financial Infrastructure	10 – 13	Dr. Susmita Mandal	May 09, 2022
5	Cyber Security for Remote Working Scenario	17 – 20	Dr. Rajarshi Pal	May 16, 2022
6	Proactive Cyber Defence Strategies	17 – 20	Dr. Dipanjan Roy	May 16, 2022
7	Dark Web Monitoring for Threat Intelligence	17 – 20	Dr. B. M. Mehtre	May 16, 2022
8	Introduction to Authentication Techniques	23 – 26	Dr. M.V.N.K. Prasad Dr. N.P.Dhavale	May 20, 2022
9	Explainable AI for Banks	24 – 27	Dr. V. Ravi	May 23, 2022
10	Big Data and Cloud	24 – 27	Dr. P. Syam Kumar	May 23, 2022

e-Programmes in June 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Privacy Preserving Machine Learning for Banks	06 – 09	Dr. V. Ravi	June 03, 2022
2	Distributed Ledger Technology and Banking Applications	06 – 09	Dr. N. V. Narendra Kumar	June 03, 2022
3	5G Use Cases and IoT Applications for Banks	06 – 10	Dr. V. N. Sastry	June 03, 2022
4	Threats to Digital Payment Ecosystem	07 – 10	Dr. Susmita Mandal	June 06, 2022
5	Technologies for Financial Inclusion	07 – 10	Dr. M.V.N.K. Prasad	June 06, 2022
6	Emerging AI/ML Technologies	13 – 16	Dr. Mridula Verma	June 10, 2022
7	Workshop on Registration Authority Operations	14 – 17	Dr. N. P. Dhavale	June 13, 2022
8	Privacy and Security Risks in Machine Learning	14 – 17	Dr. Rajarshi Pal	June 13, 2022
9	RBI Guidelines on Cyber Security	20 – 23	Dr. Dipanjan Roy	June 17, 2022
10	Introduction to Containers	21 – 24	Dr. P. Syam Kumar	June 20, 2022
11	Targeted Attacks - Detecting in Early Stages	21 – 24	Dr. B. M. Mehtre	June 20, 2022
12	API Development	Jun 28 – Jul 01	Dr. V. Radha	June 27, 2022