



# Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

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

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e-Programme on

## VIRTUALIZATION AND CLOUD COMPUTING

October 25 – 28, 2021

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### Introduction

Virtualization technologies constitute a key enabling factor for flexible resource management in modern data centres. Various virtualization technologies contribute to the overall picture in different ways: server, storage etc. By using virtualization, Banks can save on escalating IT costs and improve the utilization of modern computer technology as virtualization provides relief by fundamentally changing the way IT resources managed and deployed.

Cloud computing provides flexible resource allocation on demand with the promise of realizing elastic, Internet-accessible, computing on a pay-as-you-go basis. Cloud offers or, rather, promises numerous benefits from both the technology perspective such as increased availability, flexibility, and functionality, and business perspective such as reduced capital and operational expenditure, and shorter turnaround times for new services and applications. Hence, it is import for banks to learn virtualization, cloud computing technologies for adopting in banking sector.

### Objective

This program provides Theoretical and Practical experience on Virtualization & Cloud computing technologies for banks officials. This program also helps to you learn how to adopt these technologies in banking sector.

### Contents

- Basics Virtualization
- Hypervisor tools
- Different types of Virtualization
- Containers
- Hands on Virtualization and containers
- Overview of Cloud Computing
- Cloud Delivery and Deployment Models
- Cloud Migration Strategies
- Open source Software's for Cloud computing
- Hands on Private cloud

### Mode of Teaching

Online teaching plus learning inputs through reading material, videos, webinars, assignments, quizzes, 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?

Officials working in IT implementation team and security management team at banks.

## End Use:

The end of this program, the bankers become masters in using virtualization and cloud computing technologies. The Bankers can able to adopt these emerging technologies in their banks.

## Programme Coordinator:

**Dr. P. Syam Kumar**, Assistant Professor, IDRBT; e-mail: [psyamkumar@idrbt.ac.in](mailto:psyamkumar@idrbt.ac.in)

## Fees:

### **For Indian Participants**

- RRBs & Coop Banks: Rs. 8,850/- (Rs. 7,500/- + 18% GST)
- All Other Banks & FI's: Rs. 11,800/- (Rs. 10,000/- + 18% GST)

### **For International participants**

- US \$ 175 (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 **October 22, 2021**.

## How to Register

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

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### e-Programmes in October 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Awareness on Payment Systems Vision 2021	04 – 07	Dr. N. V. Narendra Kumar	Oct 01, 2021
2	Fundamentals of Open Source Technologies	04 – 07	Dr. Mridula Verma	Oct 01, 2021
3	AI/ML and Data Science for Banking	04 – 07	Dr. V. Ravi	Oct 01, 2021
4	Secure Coding Practices	05 – 08	Dr. V. Radha	Oct 04, 2021
5	Technologies for Financial Inclusion	05 – 08	Dr. M. V. N. K. Prasad	Oct 04, 2021
6	Threats to Digital Payment Ecosystem	11 – 14	Dr. Susmita Mandal	Oct 08, 2021
7	Workshop on Registration Authority Operations	11 – 14	Dr. N. P. Dhavale	Oct 08, 2021
8	Virtualization and Cloud Computing	25 – 28	Dr. P. Syam Kumar	Oct 22, 2021
9	Introduction to Governance, Risks and Compliance	25 – 28	Dr. Abhishek Kumar	Oct 22, 2021
10	AI/ML for Cyber Security	26 – 29	Dr. Rajarshi Pal	Oct 25, 2021
11	Insider Threats - Monitoring, Analysis and Detection	26 – 29	Dr. B. M. Mehtre	Oct 25, 2021

### e-Programmes in November 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Blockchain and Distributed Ledger Technology	08 – 11	Dr. N. V. Narendra Kumar	Nov 05, 2021
2	Introduction to Authentication Techniques	09 – 12	Dr. M.V.N.K. Prasad & Dr. N.P. Dhavale	Nov 08, 2021
3	Secure Financial Infrastructure	09 – 12	Dr. Susmita Mandal	Nov 08, 2021
4	5G & Internet of Things (IoT) for Banks	15 – 18	Dr. V. N. Sastry	Nov 12, 2021
5	Introduction to Technologies for Customer Lifecycle Management	15 – 18	Dr. V. Ravi	Nov 12, 2021
6	Proactive Cyber Defence Strategies	16 – 19	Dr. Dipanjan Roy	Nov 15, 2021
7	Data Centre Management	22 – 25	Dr. P. Syam Kumar	Nov 19, 2021

8	Cyber Security for Remote Working Scenario	23 – 26	Dr. Rajarshi Pal	<b>Nov 22, 2021</b>
9	Dark Web Monitoring for Threat Intelligence	23 – 26	Dr. B. M. Mehtre	<b>Nov 22, 2021</b>
10	Emerging AI/ML Technologies	Nov 30 – Dec 03	Dr. Mridula Verma	<b>Nov 29, 2021</b>
11	Security Operations Centre	Nov 30 – Dec 03	Dr. V. Radha	<b>Nov 29, 2021</b>

### **e-Programmes in December 2021**

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Re-imagining Customer Engagement with Conversational Chatbots	06 – 09	Dr. Mridula Verma	<b>Dec 03, 2021</b>
2	Awareness on Payment Systems Vision 2021	06 – 09	Dr. N.V.Narendra Kumar	<b>Dec 03, 2021</b>
3	Explainable AI/ML for Banking	06 – 09	Dr. V. Ravi	<b>Dec 03, 2021</b>
4	Introduction to Hardware Security for Banks	07 – 10	Dr. Dipanjan Roy	<b>Dec 06, 2021</b>
5	Technologies for Financial Inclusion	14 – 17	Dr. M. V. N. K. Prasad	<b>Dec 13, 2021</b>
6	Security in Cloud Computing	14 – 17	Dr. P. Syam Kumar	<b>Dec 13, 2021</b>
7	Workshop on Registration Authority Operations	20 – 23	Dr. N. P. Dhavale	<b>Dec 17, 2021</b>
8	Privacy and Security Risks in Machine Learning	21 – 24	Dr. Rajarshi Pal	<b>Dec 20, 2021</b>
9	Targeted Attacks - Detecting in early stages	21 – 24	Dr. B. M. Mehtre	<b>Dec 20, 2021</b>
10	API Development	27 – 30	Dr. V. Radha	<b>Dec 24, 2021</b>
11	Basics of IT Vendor Management	28 – 31	Dr. Abhishek Thakur	<b>Dec 27, 2021</b>

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