

Programme on

# SERVERLESS COMPUTE PLATFORMS

Programme Coordinator: **Dr. Subhrendu Chattopadhyay**

**JANUARY 27 - 29, 2025**  
(Offline Mode)



## Introduction

Serverless is a cloud-native development model that allows developers to build and run applications without having to manage servers. There are still servers in serverless, but they are abstracted away from app development. Serverless technologies feature automatic scaling, built-in high availability, and a pay-for-use billing model to increase agility and optimize costs. These technologies also eliminate infrastructure management tasks like capacity provisioning and patching, so the focus is on writing code that serves your customers. Adopting serverless computing can be useful for banking as it can provide cost efficient solutions and zero touch scalability by auto-multiplexing costly hardware resources.

## Objectives

- ★ This programme will strengthen the knowledge in Serverless compute platforms
- ★ Participants can gain in-depth knowledge on scalable technological solutions for modern banking applications
- ★ This programme will help the bankers to understand the opportunities for future growth by leveraging Functions-As-A-Service
- ★ This programme is designed to provide hands-on experience in the open source Serverless compute platform
- ★ It will help participants to relate to advancements in the recent technological trends in cloud infrastructure management and networking trends around it.

## Contents

- ★ **Day-1**
  - Keynote
  - Virtualization: Tools and techniques
  - Cloud, Serverless, and Edge computing paradigm: Technological interplay
  - Motivations and Use Cases for banking and Fin-Techs
- ★ **Day-2**
  - Effective application structure for serverless platforms
  - Hand-on tutorial on "OpenWhisk"
  - Network considerations to manage Serverless computing platforms
  - Hands-on tutorial on "Software Defined Networking"
  - Kernel level sandboxing (eBPF): Introduction, history, and benefits
- ★ **Day-3**
  - SDN and P4 orchestrations for serverless processing
  - Hands-on on P4 data plane programmability

- Network Function Virtualization (NFV): Introduction, history, and benefits along with hands-on tutorial
- Valedictory

## Who can Participate?

Any bank employee more than level IV related to Network or IT team

## End Use

- ★ Ease in scalability and minimizing OPEX for infrastructure
- ★ Rapid application deployment and hands-on tutorial on OpenWhisk
- ★ Hand-on experience on SDN, P4, and NFV
- ★ Future proofing infrastructure

## Nominations

Nominations should be sent to us latest by **JANUARY 13, 2025** by email to [program@idrbt.ac.in](mailto:program@idrbt.ac.in).

While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No / Phone No., email address) along with the nominating authority details (Name, Designation, Bank, Mobile No / Phone No., email address, Fees billing address, GST No. of the bank).

## Accommodation

Participants will be provided Air Conditioned Single Occupancy room at IDRBT, Hyderabad, with all cafeteria facilities. The Participants can check-in on the evening of one day before the programme and can check-out after completion of the programme on the same day (or) in the morning of the next day of the programme.

## Fee Details

### Domestic Participants from

- ★ RRBs & Coop. Banks: Rs. 44,840/- (Rs. 38,000/- + 18% GST)
- ★ All other Banks & Fis: Rs. 53,100/- (Rs. 45,000/- + 18% GST)

The fees for our programmes can be remitted through NEFT and the bank account details for fee payment are here under:

Account Name : IDRBT  
Bank : Axis Bank Limited  
Branch : Humayun Nagar (Mehdipatnam Ring Road) Branch, Hyderabad  
Account Number: 426010100018823  
IFSC Code : UTIB0000426  
GSTIN : 36AAAAI0204K1Z4.

## Programmes Scheduled in January 2025

S. No.	Programme	Date	Coordinator
1	Cyber Security Guidelines	01 - 03	Dr. Dipanjan Roy
2	Digital Payment Security Controls	01 - 03	Dr. N. P. Dhavale
3	Continuous Security Validation	06 - 08	Dr. V. Radha
4	IT Project and Vendor Management	06 - 10	Dr. Abhishek Thakur
5	Blockchain Technology for Banking	20 - 24	Dr. Susmita Mandal
6	Data Centre Management and Virtualization	20 - 24	Dr. P. Syam Kumar
7	Serverless Compute Platforms	27 - 29	Dr. Subhrendu C
8	Data Privacy and Security in Financial Services	27 - 29	Dr. Susmita Mandal
9	Emerging Technologies in Banking	27 - 31	Dr. M. V. N. K. Prasad
10	Emerging AI/ML Technologies for Smart Banking	27 - 31	Dr. Mridula Verma

Please visit our website for more details at : <https://www.idrbt.ac.in/offline-programmes>.

## Contact Us

Please contact our Programme Office for organizing Customized Programmes and/or any other queries related to programmes at [program@idrbt.ac.in](mailto:program@idrbt.ac.in) or call us on +914023294121/22/24/25.



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