

Programme on

NETWORK INFRASTRUCTURE PLANNING AND MANAGEMENT

Coordinator: **Dr. Subhrendu Chattopadhyay**

FEBRUARY 24 - 26, 2025
(Offline Mode)



Introduction

The conventional methods of managing network infrastructure are encountering significant challenges when it comes to overseeing service-oriented platforms. System administrators find themselves grappling with the complexities of modifying the network platform, often leading to nightmarish scenarios. Conversely, embracing newer generations of application technologies necessitates frequent adjustments to the network and architectural framework.

The modern network paradigm is undergoing a transformation, shifting away from traditional configure-only networking towards next-generation networks capable of supporting on-demand customization. With the introduction of programmability, networks become more adaptable and streamlined, thereby reducing operational expenditures. Moreover, programmable networks facilitate the rapid deployment of network protocols, enhancing agility and responsiveness.

Furthermore, programmable networks offer a degree of future-proofing by enabling programmability across various facets of network management. As the realization of programmable networks edges closer with each passing day, it's imperative for banks and other enterprises to hone their infrastructure management skills. By mastering these skills, organizations can leverage innovative network solutions to stay ahead of the curve and adapt to evolving technological landscapes.

Objectives

- ★ This Programme will strengthen the knowledge in new age network management.
- ★ This Programme will help participants to gain in-depth knowledge on key technological solutions for adopting digital banking.
- ★ This Programme will enable banks to understand the opportunities for future growth by leveraging Software-defined networking.
- ★ This Programme is designed to provide hands-on experience in the programmable networking paradigm
- ★ This Programme on SDN will help participants to relate to advancements in the networking field happening around them and in near future. In today's digitized and post-covid social distancing norms, the importance of networks in the banking domain cannot be overstated. It will facilitate participants' organisations in design, delivery and maintenance of secure, efficient and cost effective networks.

Contents

- ★ **Day-1: Introduction and motivation**
 - Software-defined networking (SDN): Introduction, history, and benefits along with hands-on tutorials
 - Dynamic Traffic Processing Frameworks (like Protocol Independent Packet Parser) : Introduction, history, and benefits along with hands-on tutorial
- ★ **Day-2: Other complementary technologies**
 - Network Function Virtualization (NFV): Introduction, history, and benefits along with hands-on tutorial
 - Kernel level sandboxing (eBPF): Introduction, history, and benefits

* Day-3:

- Hands on related to SDN, NFV, eBPF, etc.
- The overall eco-systems and future generation networking
- Test

Who can Participate?

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

End Use

- ★ The ease of network management
- ★ Rapid roll-out of newer networking technology
- ★ Future proof network paradigm

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.

Nominations

Nominations should be sent to us latest by **FEBRUARY 10, 2025** by email to 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.

Programmes Scheduled in February 2025

S. No.	Programme	Date	Coordinator
1	IT Risks for Banking and Financial Sector	03 - 05	Dr. Abhishek Thakur
2	Innovation and Smart Banking	10 - 12	Dr. Susmita Mandal
3	Emerging Trends in Cloud Computing	10 - 14	Dr. P. Syam Kumar
4	End to End Implementation of AI/ML in Banking	10 - 15	Dr. V. Ravi
5	Role of Micro Services in Developing Scalable Applications	17 - 20	Dr. V. Radha
6	Mobile Application Development and Security Testing	17 - 21	Dr. V. N. Sastry
7	Network Infrastructure Planning and Management	24 - 26	Dr. Subhrendu C

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 or call us on +914023294121/22/24/25.



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