



# Five Days National Workshop on Cloud Computing, Virtualization and Network Management

July 20-24, 2015



Information and Library Network Centre

(An Autonomous Inter-University Centre of UGC)

Infocity, Gandhinagar

## About INFLIBNET

The Information and Library Network (INFLIBNET) Centre, setup in May 1996, is an autonomous Inter-University Centre (IUC) of the University Grants Commission (UGC) located at Infocity, Gandhinagar. Major activities and services of the Centre are geared towards modernization of academic libraries and information centres, to promote information transfer and access, to support scholarship, learning and academic pursuits. The Centre acts as a nodal agency for networking of libraries and information centres in universities, institutions of higher learning and R & D institutions in India.

The technology being a driving force in the contemporary education system, the Centre, has taken-up a number of initiatives for the benefit of the academic community in India. These initiatives include i) IndCat, a unified online catalogue of books, theses and journals available in major university libraries in India; ii) The SOUL 2.0, state-of-the-art integrated library management software; iii) UGC-Infonet Digital Library Consortium that extends access to selected scholarly electronic journals and databases to the universities in different disciplines; iv) N-LIST that provides access to electronic journals and electronic books to eligible colleges; v) Shodhganga that enables online submission of doctoral theses and dissertations by research scholars in an open access digital repository; vi) Shodhgangotri that enables research scholars to submit approved synopsis of research proposal submitted to the university; vii) Open Journals Access System (OJAS) that facilitates faculty and researchers in Indian universities to launch their open access journals on OJAS platform; viii) InfoPort: INFLIBNET's Subject Gateway for Indian Electronic Resources; ix) e-PG Pathshala, a project assigned to the UGC by NME-ICT, wherein e-content are being developed in 77 subjects at postgraduate level; x) VIDWAN, a premier database of profiles of scientists and faculty members working at leading academic institutions and other R & D organisations involved in teaching and research in India; and xi) Integrated e-content portal, a web-based portal consisting of all e-content developed and funded under NME-ICT.

## Introduction

Computer network plays a pivotal role in creating conducive environment for the access and sharing of information resources in an organization. Establishing a sophisticated network is very crucial in the rapidly changing scenario in the technical domain. It is imperative to connect the organization's network such as LAN, WLAN to the globally connected Internet using standard protocols and topologies to keep abreast with the recent technological changes by adhering to the international standards. Effective network management is also required for un-interrupted access to information over the Internet or local area network.

Cloud computing and virtualization are the emerging trends and techniques in IT Industry, that are instrumental in bringing a paradigm shift in computing and hosting practices. In the current era, we are using many cloud based applications and virtualisation techniques directly or indirectly. The administration of network is not only limited to the IT professionals but for any professional working in a networked environment. Time to time update of new technologies in order to upgrades the IT Infrastructure and network is essential even for policy makers.

## Aims and Objectives of the Workshop

This workshop offers a better understanding of the network architecture, design, management, concept of virtualization, its benefits and uses, concept of cloud computing and its applications. It also provides a platform to gain “hands-on” experience on cloud computing and network management. The network deployment and management is to be executed with proper designing, planning along with right policies.

The workshop is intended for the IT and library professionals to gets real-time “hands-on” experience on configuration of switches, firewall, access points, ACL, server hardening, load balancing, TCP/IP, cloud computing and virtualization which are very important. As the threats from cyber space is increasing day by day in organization's network, maintaining network in a secured environment will also be discussed in details during the workshop.

## Scope

The scope of workshop is to cover theoretical and practical sessions on the following concepts;

- ❖ Basic networking concepts
- ❖ IP addressing and its implementation to meet network requirement
- ❖ Configure, verify and troubleshoot switch & router
- ❖ Introduction and implementation of WLAN
- ❖ Implementation of network security
- ❖ Introduction to virtualization technology, characteristics and types of virtualization
- ❖ Introduction to cloud platforms, architectures and models
- ❖ Advantages and disadvantages of cloud computing
- ❖ Introduction of SaaS, PaaS, IaaS models
- ❖ Cloud security
- ❖ Cloud services and applications
- ❖ Network management and monitoring tools

## Methodology

The session shall include guest lectures from Industry with practical training on cloud computing and virtualization and network management along with administration of various networks.

## Resource Persons

The resource persons are eminent experts in IT, library science and network professionals from IT Industry.

## Target Participants

The program is open to IT faculty, information scientists, library professionals and IT engineers working in computer and library science field. A maximum of 25-30 candidates will be selected for the workshop on First-Come-First-Serve basis.

## Pre-requisite

Participants should be conversant with basic use of ICT terminologies and should possess basic knowledge and experience in computer.

## Duration: Five Days

Five days' workshop includes the theory and practical in 2-4 sessions in a day.

## Venue

The Workshop will be conducted at Information and Library Network Centre, An IUC of University Grants Commission, Infocity, Gandhinagar-382007, Gujarat, India.

## Workshop Fee

The registration fee is ₹5000 + 14% Service Tax (Rupees five thousand plus fourteen percent Service tax ) per person without accommodation and ₹ 7500+ 14% Service Tax (Rupees seven thousand five hundred plus fourteen percent Service tax ) per person with accommodation.

It covers the cost of workshop kit containing course materials, breakfast, lunch and dinner during the training period. The payment should be made through Demand Draft in favour of “INFLIBNET Centre” payable at Gandhinagar along with filled-in registration form. Fee is non-refundable and non-adjustable.

## Registration for Workshop

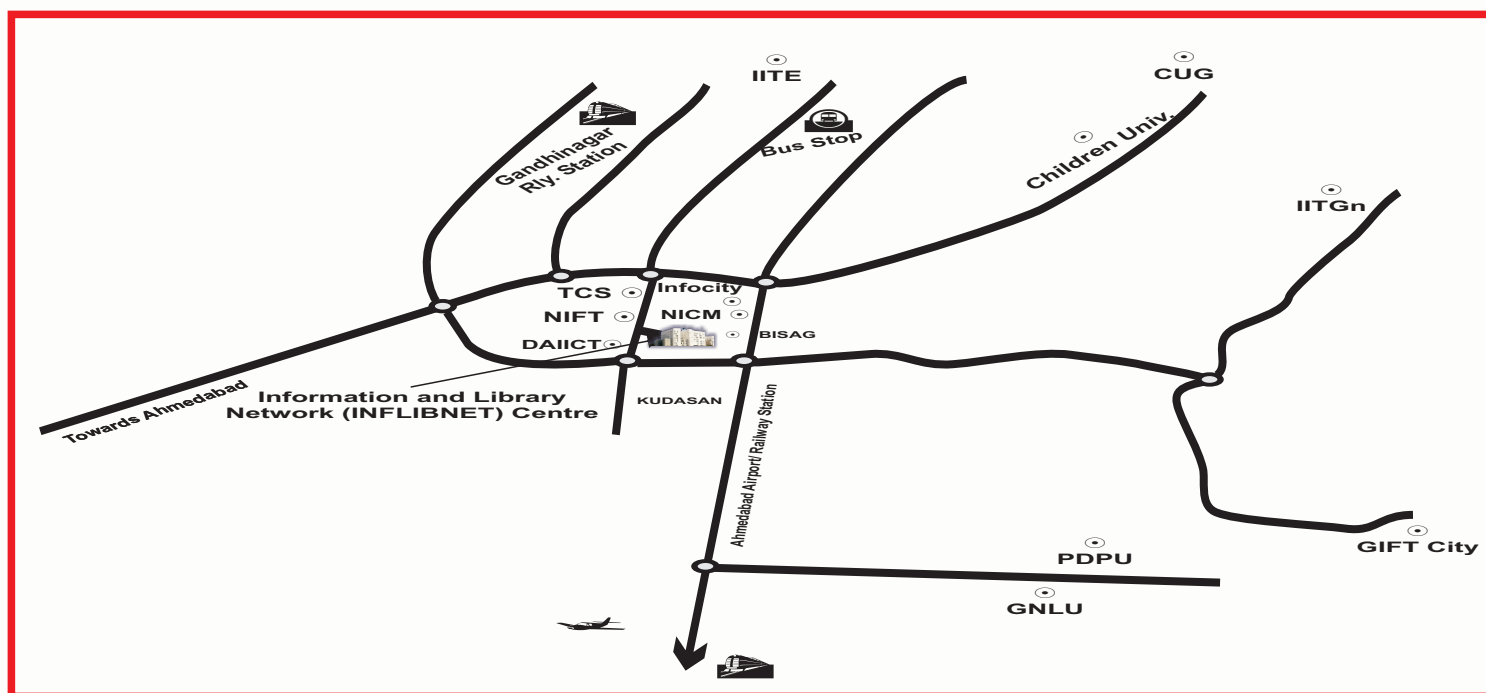
The application for admission to the workshop should be submitted in the enclosed prescribed form to INFLIBNET Centre, Gandhinagar on or before **06th July, 2015**.

## How to Reach INFLIBNET

**Road Routes:** Gandhinagar is connected to Surat, Mumbai, and Navi Mumbai through National Highway 8A. It is connected to Ahmedabad, Jaipur, Udaipur, New Delhi & Chandigarh through the National Highway 8C.

**Air Connectivity:** The nearest airport is Sardar Vallabhbhai Patel International Airport, Ahmedabad located at a distance of 15KM from Domestic flights are available for the Metropolitans and other major cities of India. It also provides many International flights from Ahmedabad to across the world.

**Rail Connectivity:** The nearest Railway Station is Ahmedabad Railway Station (Known as Kalupur) which is well connected to all metropolitans and other major cities of India. The Ahmedabad Railway station is located at a distance of 23 Km from the INFLIBNET Centre, Gandhinagar.



For further information please contact

### Course Director

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### Course Co-ordinators

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