



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

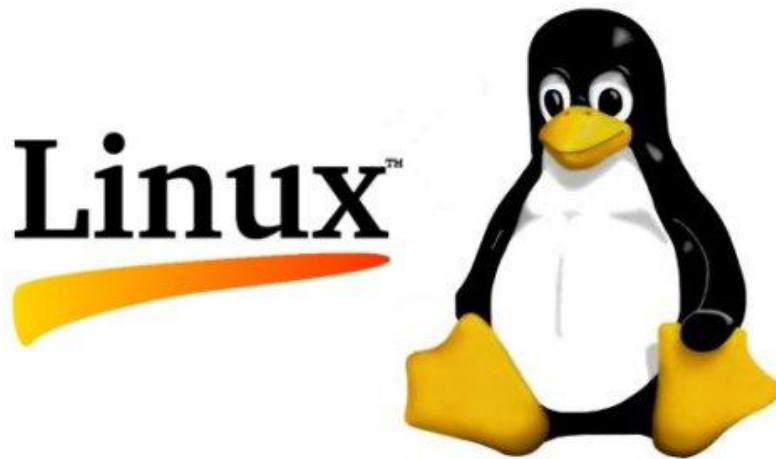
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



INFORMATION TECHNOLOGY DIVISION

Continuing Professional Development Programme

Advanced Linux Server Administration



13 – 17 March, 2017



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

Introduction

Linux is a Unix-like computer operating system assembled under the model of free and open source software development and distribution. Linux based systems are increasingly being used to power mission critical server systems, network servers and desktops. With its open source heritage and rich applications, organizations have for the first time available with them open standards based platform. Linux is a "modern operating system", with features such as High Data Security, Virtual Machines, memory protection, and preemptive multitasking.

Objective

The objective of the hands-on training is to help systems engineers and administrators acquire a practical insight into the working and administration of a Linux based system & Linux Servers like Apache, Samba, Squid, LDAP, Ext.

Course Coverage

Linux System Administration

- Overview Of Linux , Linux File Structure
- Browsing Linux File system
- User & Groups Administration
- File System Management
- Quota Management & ACL
- Linux Networking & NIC Bonding
- Process Management & Job Scheduling
- System Initialization & Service Management
- Logical Volume Manager(LVM)
- Package Management
- Perform automated software updates
- Xinetd Services and TCP wrappers
- Kernel Modules & /proc File System
- Network & Kickstart Installation
- SELinux Security

Configuring DHCP Server

Configuring NFS Server

Samba Server Administration

- Configuring Samba server
- Samba Troubleshooting

DNS Server

- Configuration of DNS server
- Configuration of primary DNS server
- Configuration of zones

Mail Server (SMTP, POP3, IMAP)

- Basics of Mail Servers
- Configuring SMTP service using Postfix
- Configuring POP3 / IMAP service on Linux

Web Server (Apache)

- Basics of Web Service
- Introduction to Apache
- Configuring Apache for main site
- Configuring Apache for multiple sites using IP-based, port-based and name-based virtual hosting

FTP Server (vsftpd daemon)

- Basics of File Transfer Protocol
- Configuring vsftpd for anonymous ftp service

Web based Administration

- Installing Webmin on Linux
- Administrating Linux machine remotely
- Using Webmin as a tool for configuring various services on Linux

Squid Server Administration

- Basics of proxy services
- Configuring proxy services
- Creating ACL's for controlling access to internet

Configuring LAP Authentication

- About LDAP
- Configuring LDAP Server

Network Monitoring Tools

Configuring Kernel Virtual Machine (KVM)

Linux Troubleshooting

Methodology

Methodology of the programme includes class room sessions with **Hands-on Practical**, audio visual aid, bench marked video shows, chalk & talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

Target Participants

- ❖ System Administrators, IT Managers, System Managers
- ❖ Professional's involved in System Administration from Telecom/ Defense/ Other Govt. Departments
- ❖ Professors/ Assistant Professors/ Faculty and Technical Staff of Engineering / MCA Colleges

Programme Venue, Dates & Timings

Venue: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad. 500032. TS, India.

Dates

13 – 17 March, 2017

Timings

On the first day Registration will commence at 09:00 hrs. On all other days the programme timings will be from 09:45 – 17:15 hrs with breaks in between for tea and lunch.

Course Director



Mr. Syed Azgar , MBA(IT), RHCE, MCSA
Faculty & Manager-IT,
Information Technology Division,
Engineering Staff College of India, Hyderabad.

Course Fee

₹ 25,000/- (Residential Fee) per participant. Fee includes course material, course kit, twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of training programme.

DISCOUNTS

- ❖ **Non – Residential Fee** - 10% discount on course fee is allowed for non- residential participants.
- ❖ **Group Discount** - Additional 10% discount for three or more participants if sponsored by the same organization

(All discounts are applicable only if fee is received at ESCI before commencement of the programme)

Service Tax @15% is to be paid extra and above the training fee as training is also brought under the purview of Service Tax in Finance Bill 2010. **PAN Card No.** AAATT3439Q. **Service Tax Registration No.** AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZCC) of Finance act – 1994).

Programme fee is to be paid in in favour of **“THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft payable at Hyderabad. Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT/ RTGS/ IFSC Code No. SBIN 0004159 – MICR No.500002075. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Register Online: <http://www.escihyd.org/trainings/information-technology/>

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobiles no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

The Head

Information Technology Division
Engineering Staff College of India
Gachi Bowli, Hyderabad – 500 032
Phone: 66304100 (EPABX) / 040 – 66304123/24/25 (Direct), Fax: 040 - 23000336
Email: it@escihyd.org, Portal: www.escihyd.org

A Certificate of participation will be awarded to each participant on conclusion of the programme.

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participant.