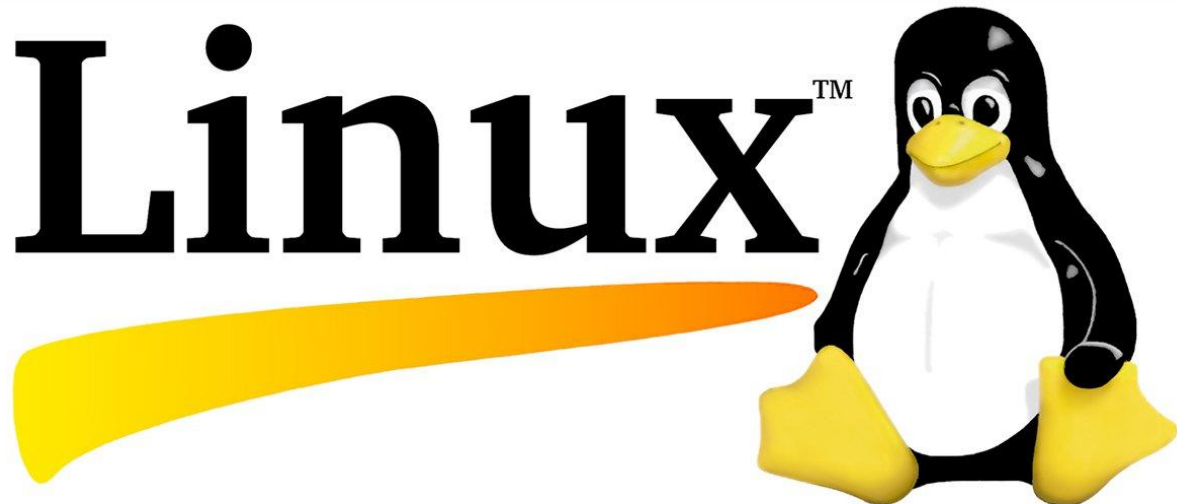*LEARN TODAY AND LEAD TOMORROW*

Overview

Let eMexo Technologies Best **Linux Training in Electronic City Bangalore** take you from the Basic Linux to Advance Linux Concepts and make you an expert in Linux. Here are the major topics we cover under this Linux course Syllabus: **Introduction to Linux and installation process, Basic Command lines of Linux, System Initialization, File System Management, User Management, Boot and Run levels, Package Management, Kernel Services - Configuring the kernel, Basic Network Configuration, Network File System (NFS), File Transfer Protocol (FTP), Xinetd, TCP Wrapper, Domain Naming Service (DNS), Logical Volume Manager (LVM), Package Manager (Rpm), Backup and Recovery, Automating programs, Dynamic Host Configuration Protocol (DHCP), Network Information Service, Apache, Squid, Samba, and Raid Levels.** Each and every topic will be covered in the most practical way with examples for our Linux Course in Electronic City Bangalore.

All the topics will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies that they teach. We hire only Linux industry specialists as trainers for our **Linux Certification Training in Electronic City Bangalore**.

If you are looking for a Linux Certification Course in Electronic City Bangalore, eMexo Technologies is the Best **Linux Training Institute in Electronic City Bangalore**. Come over to our training institute for a free demo class. Let our trainer give you a demo on Linux and only then do you decide to enroll in the Linux Training Course in Electronic City Bangalore.

Training Features

Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

Assignments

Each class will be followed by a practical assignment switch that can be completed before the next class.

Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and know exactly what the interviewer will look for in the candidate. Experienced trainers not only share interview questions but also conduct mock interviews to help prepare for the actual interview.

Key Features

eMexo Technologies offers the **Best Linux Training Course in Electronic City Bangalore** with the TOP industry expert trainers.

Here are the key features.

★ Free Demo Class Available

★ Practical Approach

★ Expert & Certified Trainers

★ 100% Job Oriented Training

★ Real World use cases and Scenarios

★ Completed 500+ Batches

★ Certification Guidance

Unit 1: Introduction to Linux and installation process

➢ Starting the Installation

➢ Boot Media

➢ Accessing the Installer

➢ Installation through NFS

➢ Installation through FTP

➢ Installation through HTTP

➢ Network Installation Server

➢ Configuring File Systems

➢ Advanced Partitioning

➢ Package Selection

➢ First Boot: Post-Install Configuration

➢ Starting a Kickstart Installation

➢ Anatomy of a Kickstart File

➢ Hands-On

Unit 2: Basic Command lines of Linux

➢ Overview of the bash shell

➢ Basic commands (ls, cd, tail, cat, mkdir)

➢ Commands for manipulating files(mv,cp,rm)

➢ Text editor (vim)

➢ Stream text editors (grep, sed, and awk)

➢ STDERR, STDOUT, STDIN

➢ Compression Tar, gzip, bzip2

➢ Tools easily accessible on Linux

➢ Hands-On

Unit 3: System Initialization

➢ Boot sequence overview

➢ Troubleshooting boot problems

➢ What are GRUB and grub.conf

➢ Start boot process: GRUB

➢ Kernel initialization

➢ Initialization (init 0,1,2,3,4,5)

➢ Running level

➢ /etc/rc.d/rc.sysinit

➢ /etc/rc.d/rc

➢ System V run level

➢ /etc/rc.d/rc.local

➢ Service control (service, init.d, chkconfig)

➢ Hands-On

Unit 4: File System Management

➢ Create a file system

➢ Understand EXT2, EXT3, and EXT4 file systems

➢ Convert Ext2 file system to Ext3 file system

➢ Revert from Ext3 to Ext2 file system

➢ Understanding the fdisk, e2label, mount and umount commands

➢ About fstab and mtab files

➢ Troubleshooting

➢ Hands-On

Unit 5: User Management

➢ Understand different types of groups and create groups

➢ Create users in different groups

➢ Understanding passwd and shadow files

➢ Understanding password aging

➢ Create user, group, and file system quotas

➢ Understanding the User Security File

➢ Various commands for monitoring users

➢ Troubleshooting

➢ Hands-On

Unit 6: Boot and Run levels

➢ Boot Process: From BIOS to Kernel to Userspace

➢ Setting kernel parameters

➢ Run levels and init scripts

➢ Configure the service to run at boot

➢ secure single-user mode (su login)

➢ Shut down and restart your system

➢ Hands-On

Unit 7: Package Management

➢ RPM package manager

➢ Software installation and removal

➢ Update kernel RPM

➢ RPM query

➢ RPM check

➢ About yum

➢ Use of yum

➢ Search for packages/files

➢ Configure additional repositories

➢ Create a private repository

➢ Red Hat network

➢ Red Hat Network Server

➢ Authority

➢ Red Hat Network client

➢ Hands-On

Unit 8: Kernel Services - Configuring the kernel

- ➢ Linux kernel
- ➢ Kernel images and variants
- ➢ kernel module
- ➢ kernel module utility
- ➢ Manage initrd images
- ➢ Accessing drivers Through /dev
- ➢ Device node example
- ➢ Manage /dev with udev
- ➢ Add the file under /dev
- ➢ Kernel configuration using /proc
- ➢ /proc example
- ➢ sysctl : persistent kernel configuration
- ➢ Examine hardware devices (hwinfo)
- ➢ Process and resource monitoring (kill, ps, pstree, top)
- ➢ Hands-On

Unit 9: Basic Network Configuration

- ➢ Configure a network device to connect to a local network
- ➢ Configure a network device to connect to a wide-area network
- ➢ Communicate between subnets within a single network
- ➢ Configure a network device to implement authentication
- ➢ Configuring a multi- homed network device
- ➢ Resolving networking and communication problems
- ➢ /sbin/route
- ➢ /sbin/ifconfig
- ➢ /bin/netstat
- ➢ /bin/ping
- ➢ /sbin/arp
- ➢ /usr/sbin/arpwatch
- ➢ /usr/sbin/tcpdump
- ➢ /usr/sbin/lsof

➢ /usr/bin/nc

➢ Hands-On

Unit 10: Network File System (NFS)

➢ Understanding NFS Servers and NFS Clients

➢ Understanding NFS daemons and files from the boot stage

➢ Configure an NFS server and various NFS clients

➢ Configure autofs, NFS security

➢ Hands-On

Unit 11: File Transfer Protocol (FTP)

➢ Learn about FTP server features and benefits

➢ Configure FTP Server and FTP Client

➢ Configure FTP server for anonymous and real users with download and upload permissions

➢ Configure FTP user access, FTP security

➢ Understand basic FTP commands

➢ Configure an anonymous FTP server

➢ Hands-On

Unit 12: Xinetd

➢ Understanding xinetd-based and non-xinetd-based services

➢ Configure xinetd-based services

➢ XinetdSecurity

➢ Hands-On

Unit 13: TCP Wrapper

➢ Introduction to TCP wrappers

➢ Configure TCP WRAPPER for services

➢ Hands-On

Unit 14: Domain Naming Service (DNS)

➢ Understand the DNS service and different types of DNS servers

➢ Configuring DNS (Master) DNS (Slave)

➢ Understanding and configuring forwarding (DNS) and caching (DNS) boot phases

➢ Understand different file types at system boot

➢ troubleshooting

➢ Hands-On

Unit 15: Logical Volume Manager (LVM)

➢ Creating a Filesystem and Converting to LVM

➢ Create physical partition

➢ Create a volume group

➢ Creating logical partitions

➢ Expand volume group

➢ Extending a logical partition

➢ Hands-On

Unit 16: Package Manager (Rpm)

➢ Understand RPM features and benefits

➢ Installing RPM packages

➢ Upgrading from RPM

➢ RPM Verification

➢ QUERIES, Error log

➢ Hands-On

Unit 17: Backup and Recovery

➢ Understand different types of file system backups

➢ Understanding different types of file backups

➢ Understand different types of file system backups

➢ Understanding different types of dump levels

➢ Understand monthly, weekly, and daily backups

➢ Different types of backup strategies

➢ Hands-On

Unit 18: Automating programs

- ➤ Run Levels
- ➤ /etc/rc.d Files
- ➤ Customization of Run Levels
- ➤ cron and anacron
- ➤ at and batch
- ➤ Hands-On

Unit 19: Dynamic Host Configuration Protocol (DHCP)

- ➤ Understanding DHCP
- ➤ Configure the DHCP server for different DHCP clients
- ➤ Hands-On

Unit 20: Network Information Service

- ➤ Understanding NIS and NIS daemons (servers, slaves, and clients)
- ➤ Configure NIS (master), NIS (slave), and NIS clients in a heterogeneous environment
- ➤ Integration of NIS (master and slave) and NFS servers
- ➤ Hands-On

Unit 21: Apache

- ➤ Understanding Apache
- ➤ Configuring APACHE Web Server with Virtual Hosting
- ➤ Configuring APACHE Web Server with IP-BASED, HOST-BASED, and PORT
- ➤ Hands-On

Unit 22: Squid

- ➤ Understanding SQUID proxies
- ➤ Configure SQUID proxy with ACL
- ➤ Hands-On

Unit 23: Samba

- ➤ Understand the features and benefits of SAMBA servers

➢ Configuring SAMBA for Heterogeneous Environments

➢ Share resources between Unixes using SAMBA

➢ Share resources between Windows and Unix (and vice versa)

➢ samba security

➢ Hands-On

Unit 24: Raid Levels

➢ Understanding RAID levels

➢ Configure different types of RAID levels (0, 1, and 5)

➢ Hands-On

FAQs

1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on-oriented. You learn a concept, you practice it then and there with the trainer. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

2. What is the course duration? How and when do you plan to complete the course?

We generally cover our courses in 60 hours, however, we are aware that we can't put a hard- stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 48 hours or 60 hours, doesn't matter.

3. What is the material provided in the training?

We have industry standard course material which is used by our trainers to train you. At the end of the training apart from the notes which you have taken during the course, we will also provide you with the training material which was used. This training material includes the training content, interview questions, etc.

4. Do you help in preparing for the interview?

Our trainers are working professionals who work in MNCs. They are the expert in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

5. Who are your trainers?

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

6. **What is the total batch size per course?**

We maintain a strict batch size of a maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

7. Do you provide certification for the course?

Yes, at the end of training we provide a certification of completion.

8. Will I be joining a new batch or being merged with another batch?

You will be added to a new batch.

9. Is fast-track training available?

Yes, we provide fast-track training as well for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

10. Do you assist in job placement?

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

11. Timings for training - Regular training/weekend training

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

12. Will you be working on a live project during training?

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you for the implementation.

13. What happens if I miss a class?

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

14. Can I attend a demo before the actual class?

Yes, absolutely! Talk to our training counselor on phone at **+91-9513216462** or email us at **info@emexotechnologies.com** to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.