



LINUX CORPS

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Intermediate Courses

Linux Corps runs three intermediate workshops. The first covers server administration and networking basics. The second shows how to use php web scripting and a MySQL database in conjunction with the Apache webserver, to create dynamic interactive website applications. The third is for those who may be experiencing difficulties using the X-Windows multimedia facilities either at home or for business and professional use and wish to learn more.

Prerequisites:

For workshops classed as "Intermediate", in order for participants to gain the maximum benefit, it is recommended that those wishing to participate should have some familiarity with the operation of GNU/Linux server, and have minimally configured such a system.

Server Administration.

This intermediate workshop is aimed at those wishing to progress towards achieving the skills needed to maintain and manage a GNU/Linux server. On completion, Delegates will be able to create a structured server capable of supporting multiple users, at various levels of security, through local or remote logins or through an intranet set-up under Apache. They will be able to configure a file and printserver for cross-platform use, and learn how to automate maintenance by creating timed events. This workshop covers some elements included in the Linux Professional Institute's (LPI) Levels One and Two courses.

You will learn about:-

- User administration - creating additional users.**
- Creating groups.**
- Permissions and security.**
- Host Names & IP Addresses.**
- Initialisation and start-up schemes.**
- Automating things - basic shell scripting.**
- Crontabs - setting-up automated timed events.**
- Network administration - basics.**
- Samba - integrating with Windows, basic setup.**
- Apache webserver - setup.**
- Printer administration and set-up.**

- Connecting to the Internet - Modems and ADSL.**
- Remote access - secure shells, FTP server.**

This workshop would be suitable for those with some understanding of a GNU/Linux system who wish to expand their understanding of such a system's capabilities. On completion, attendees should be able to deal with all of the normal operations of an in-house or co-located server.

For those who wish to extend their stay further, this workshop could be coupled with LCO's "Networking GNU/Linux" workshop.

Dynamic Webserver Techniques.



This intense workshop provides delegates with a detailed understanding of the operation of dynamic, interactive portal web sites, php, back-end databases, templating and stylesheets. It also provides an insight into web security.

It is aimed at upskilling those with basic understanding of static web design by providing the fundamentals needed to bring interactivity, styling and other useful modern techniques to their portfolios.

You will learn about:

- Server-side Scripting - cgi programs.**
- SQL and Database basics.**
- PHP - Concepts and Introduction.**
- Interactive web coding.**
- Automating email responses.**
- Collecting input from site users.**
- Templating and Stylesheets.**
- Javascript basics.**
- Animated images.**
- Web Statistics.**
- Security Issues and Data Protection.**

For those wishing to extend their stay, this workshop could be combined either with the Basic Website Administration and Management Workshop to increase attendee's depth of knowledge, or could be coupled with the more advanced e-Commerce Applications Workshop to provide a fully comprehensive understanding of interactive and dynamic website creation.

Multi-Media Mysteries.

This Intermediate Workshop is for those who are having difficulty getting various devices, such as webcams, sound devices, DVD Movie players etc. to work successfully with their GNU/Linux installation.

By the end of your stay, you will learn the basics of digital re-mastering and sound mixing with Audacity, Lame and Grip, have got the hang of Xine, Mplayer or Kaffeine for playing DVD movies, mastered setting up that webcam and scanner and be able to burn CD's/DVD's with confidence.

Because of the differences in the way that the Linux Kernel versions support various drivers, this workshop includes such topics as searching out suitable drivers for your hardware as well as information on re-compiling the Kernel with specific modules to achieve your objectives.

You will learn about:
Burning CDs and DVDs

- ❑ **Configuration of SANE and Scanning**
- ❑ **The basics of the Linux sound system**
- ❑ **Compiling Xine or Mplayer with codecs to allow playing of DVD movies**
- ❑ **Basics of digital sound re-mastering and mixing techniques**

Residential Workshops.

The LCO Centre provides an environment conducive to supplementing existing IT skills levels, and increasing awareness of the principles of free/open-source software using the GNU/Linux operating system. It is geared at groups of no more than six to eight participants at one time,



and offers comfortable relaxed accommodation on Chambres d'hotels basis.

LCO France's Linux Corps occupies an historic 150 year old former hotel at the heart of the tiny village of St Alyre d'Arlanc. The building was renovated internally after acquisition in 2003 and visitors are encouraged to make full use of the friendly, relaxed and homely environment to enhance their learning experience.



At Linux Corps, the team appreciate that the speed of technical knowledge absorption differs from person to person. Some are able to take in information straight away, others may need to go over certain points in their own time. For this reason, the Linux laboratory facilities at the Centre are available for use 24/7.

As with all forms of intensive learning, regular break periods refresh the body and help the mind to absorb the flow of knowledge more effectively. The peace and tranquility of the surrounding forests and countryside offer open spaces to exercise and the opportunity to reflect.

The LCO is one of only four Novell Practicum Test Centres currently registered in France, this additional facility offers those LCO Linux Corps participants who have reached a certain level of knowledge to sit an on-line examination under regulated conditions thus achieving Novell certification of their skills.

Contact Us.

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