



LINUX CORPS

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Advanced Courses

The LCO offers three courses for those who need to further explore the use of Linux servers for Internet and LAN Intranet environments.

Prerequisites

Workshops considered as "Advanced" require participants to be experienced in the concepts and usage of GNU/Linux systems and networking.

Networking GNU/Linux Servers.

This advanced workshop provides a deeper understanding of networking GNU/Linux systems. It allows participants to expand their knowledge in areas covering local intranet construction and maintenance and allow seamless intercommunication between various platforms.

This workshop also addresses two of the most critical areas relative to wide area networking - security / firewalling and the set-up of a domain name server (DNS) and Bind which enable Internet inter-active programmes such as e-commerce and e-business. This workshop covers many elements included in the Linux Professional Institute's (LPI) Level Two course.

You will learn about:

- ❑ **Network Overview - Internet, Intranets and Extranets.**
- ❑ **Static & Dynamic Addressing, DHCP.**
- ❑ **Local Networks - NIS, NFS and Samba.**
- ❑ **Sharing and exporting directory and file structures.**
- ❑ **Structuring and Configuration of the Apache Webserver.**
- ❑ **Installation of MySQL and php modules for Apache.**
- ❑ **Virtual Hosting on Apache.**
- ❑ **Serverside scripting, cgi basics and perl.**
- ❑ **DNS and Bind.**
- ❑ **Email and Mail Servers.**
- ❑ **Security matters / Firewalling.**

Aimed at those who would like to extend their knowledge of how server technology and web technology combine to allow dynamic and interactive global communication by end users. It could be a follow-up to our Server Administration workshop for those who wish to extend their visit across two weeks.

e-Commerce Applications.

This advanced level workshop concentrates on e-commerce applications using fast templating, php programming and MySQL database functionality.

Use your stay at Linux Corps to advantage, bring along your ideas for a website and take home all the building blocks you'll need to construct and manage your own dynamic site.

Overview:

As more and more companies/major corporations see the Internet as a source of business, there is already a growing need for increasing numbers of people skilled in this field.

Internet trading requires that an e-commerce web site be set up to enable customers to select items and products and to purchase goods via credit card transactions. The "shopping cart" provides one such an interface between customer and on-line payment facilities

PHP is just one of a range of secure server side web content generation languages which can be used in conjunction with a MySQL database to implement fully functional e-commerce web shopping sites.

This workshop provides in depth training in the configuration and programming of PHP. The laboratory exercises will use PHP to build the components necessary for a fully functional e-commerce web site, hosted on an Apache web server with PHP support.

This advanced one week workshop is for those who would like to expand their understanding of back-end web technologies. A working knowledge of UNIX/Linux is required, including file handling commands and the use of a text editor. Some experience of website scripting and a working knowledge of basic SQL would be advantageous.

You will learn how to:

- ❑ **Set up under Apache, a website on Linux with PHP and SSL support.**
- ❑ **Create a fully functional e-commerce web site complete with shopping cart.**
- ❑ **Create secure order forms and order tracking.**
- ❑ **Write dynamic server side web content using PHP.**
- ❑ **Use the PHP database commands to store data into and retrieve data from a MySQL database.**
- ❑ **Implement a protected web site login mechanism using PHP.**

This workshop could be an ideal follow-up to the Dynamic Web-design Techniques workshop.

VoIP, PABX and Wireless.

Recent Open Source developments in SIP telephony have come up with some interesting and highly cost-effective options for organisations small or large who wish to install an efficient PABX system which utilises Voice over Internet Protocol (VoIP) technology.

If you want a secure wireless system in your home, office or headquarters that will enable your family or your staff to connect to the outside world via wireless, this workshop is for you. Of course opening your Internet connection via wireless will bring its own security problems. At the same time, we'll show you how to protect your personal network from intrusion and your bandwidth from unauthorised use.

On this Advanced workshop we'll take you through the technology and let you see for yourself how GNU/Linux and Open Source software deals with these two cutting edge technologies.

You will learn about:

- ❑ **Use and installation of SIP phones under X-windows.**
- ❑ **Compiling and installing the Asterisk PABX System.**
- ❑ **Fundamentals and basic configuration of Asterisk**
- ❑ **Other VoIP options under GNU/Linux**
- ❑ **An introduction to wireless networking.**
- ❑ **Configuring Wireless Access Points.**
- ❑ **Security on the Server.**
- ❑ **Protection of personal files and bandwidth**

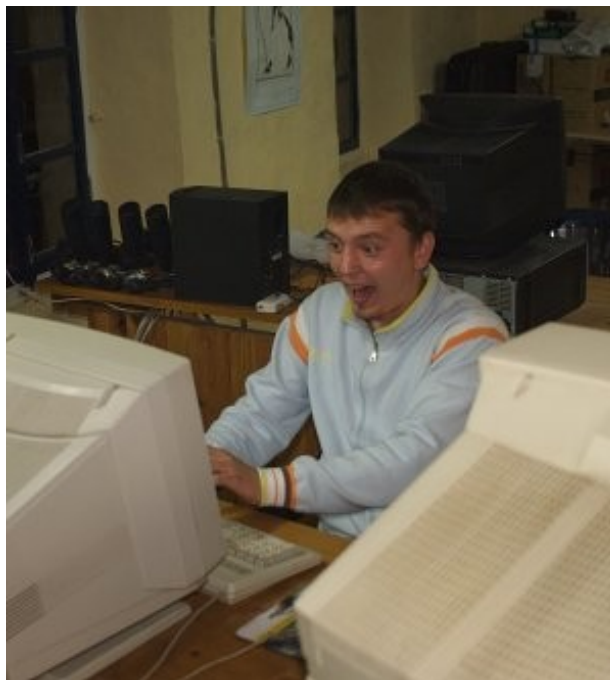
Residential Workshops.

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 small groups of no more than six to eight participants at one time,



and provides comfortable relaxed accommodation on full-board 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 calm of the surrounding forests and countryside offer open spaces to experience nature and take time 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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