

# **LFS462 – Linux Foundation – Open Source Virtualization**

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### **About This Course**

Learn KVM from the ground up with a focus on QEMU and libvirt, as well as Xen. By the end of this course, you will understand how these and other related open source components can be assembled to create a virtual IT infrastructure. There is a focus on practical deployment skills, securing the virtual infrastructure, and administering solutions. There will also be detailed material about using containers. There are low-level lab exercises focused on virtual images and snapshots, deployment, VM creation and maintenance, integration with networking infrastructure, device pass-through and more.

Open Source Virtualization takes a deep dive into KVM (Kernel-based Virtual Machine) and Xen, the most popular hypervisor virtualization technologies in the open source ecosystem, as well as the deployment and use of containers. Built by experts in the field of virtualization, this course provides the technical background to understand the components required to build and administer a modern virtual IT infrastructure.

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## **Course Goals:**

- This course is focused on problems typically faced in the enterprise world. The lectures are filled with examples of how KVM, Xen and containers can be used in business environments as well as practical lab sessions that let participants gain a real-world perspective of common virtualization problems and how to address them. At the end of the training, attendees will have acquired the skills needed to:
  - Understand the role KVM and Xen play in the virtualization ecosystem
  - Know how to assemble KVM and other components into a robust and efficient virtual IT infrastructure

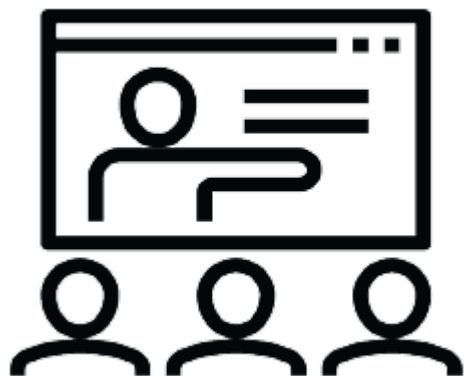
This course is designed to work with a wide range of Linux distributions, so you will be able to apply these concepts regardless of your distro.

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## **Audience:**

- DevOps, Linux and Cloud Engineers

## Course Format:



**Присъствен (Classroom)**  
Курс в Учебната ни зала  
или В Офис на Клиент



**Онлайн (Online/Virtual)**  
Курс във виртуална зала  
с инструктор

## Course Language Option:

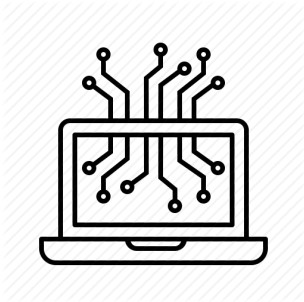


**Български (Bulgarian)**



**Английски (English)**

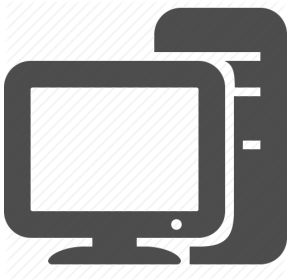
## Student Guides:



The training materials are available in electronic format. They can be used online / offline on any device. Lifetime access.

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## Lab Environment:



Each student has their own lab environment where the exercises are conducted, part of the course. You do not need to install software on a computer or special hardware requirements.

Participants in a face-to-face format in our Training Center have an individual computer during the training.

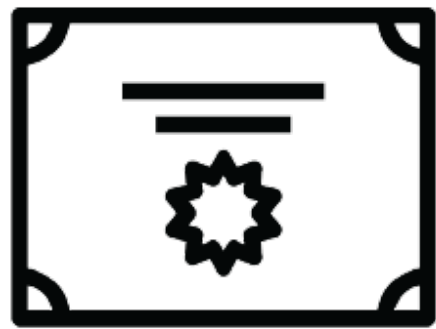
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**At Course**

**Completion:**



**Lifetime Access - Video  
Archive 24/7**

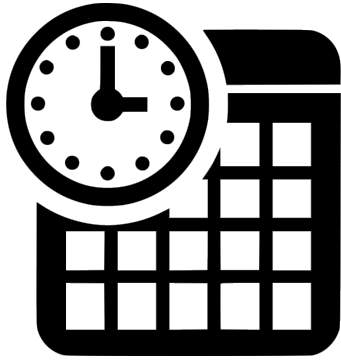


**Certificate of Course  
Completion**

**Lifetime access to a video archive with recording  
of each individual lecture.  
Official internationally recognized certificate  
for completed training course.**

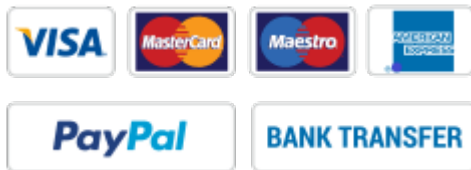
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**Course Duration:**



- 4 working days (09:00 – 17:00) or 32 hours
  - Saturday and Sunday 10:00 – 14:00, 14:00 – 18:00, 18:00 – 22:00
- Monday and Wednesday 19:00 – 23:00  
Tuesday and Thursday 19:00 – 23:00
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## Payments :



An application for an invoice is accepted at the time of enrollment in the respective course.

An invoice is issued within 7 days of confirming the payment.

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## Next Class:



- There are no upcoming events.

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## Prerequisites:

- This course is designed to provide students with the necessary skills and abilities to work as a professional Linux system administrator. Students should have basic knowledge of Linux and its most common utilities and text editors.
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