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## LPIC-3 Virtualization and Containerization v.3.0

**(Exam code 305-300)**

Overview:

The LPIC-3 certification is the culmination of the multi-level professional certification program of the Linux Professional Institute (LPI). LPIC-3 is designed for the enterprise-level Linux professional and represents the highest level of professional, distribution-neutral Linux certification within the industry. Four separate LPIC-3 specialty certifications are available. Passing any one of the four exams will grant the LPIC-3 certification for that specialty.

The LPIC-3 Security certification covers the administration of Linux systems enterprise-wide with an emphasis on security.

### Prerequisites

The candidate must have an active LPIC-2 certification to receive the LPIC-3 certification.

### Requirements:

Passing the 305 exam. The 90-minute exam is 60 multiple-choice and fill in the blank questions.

## Objectives

### 1. Full Virtualization

- 4.1.1 351.1 Virtualization Concepts and Theory (weight: 6)
- 4.1.2 351.2 Xen (weight: 3)
- 4.1.3 351.3 QEMU (weight: 4)
- 4.1.4 351.4 Libvirt Virtual Machine Management (weight: 9)
- 4.1.5 351.5 Virtual Machine Disk Image Management (weight: 3)

### 2. Container Virtualization

- 4.2.1 352.1 Container Virtualization Concepts (weight: 7)
- 4.2.2 352.2 LXC (weight: 6)
- 4.2.3 352.3 Docker (weight: 9)
- 4.2.4 352.4 Container Orchestration Platforms (weight: 3)

### 3. VM Deployment and Provisioning

- 4.3.1 353.1 Cloud Management Tools (weight: 2)
- 4.3.2 353.2 Packer (weight: 2)
- 4.3.3 353.3 cloud-init (weight: 3)
- 4.3.4 353.4 Vagrant (weight: 3)