
DevOps Tools Engineer v 1.0

(Exam code 701-100)

Overview:

Businesses across the globe are increasingly implementing DevOps practices to optimize daily systems administration and software development tasks. As a result, businesses across industries are hiring IT professionals that can effectively apply DevOps to reduce delivery time and improve quality in the development of new software products.

To meet this growing need for qualified professionals, Linux Professional Institute (LPI) developed the Linux Professional Institute DevOps Tools Engineer certification which verifies the skills needed to use the tools that enhance collaboration in workflows throughout system administration and software development.

In developing the Linux Professional Institute DevOps Tools Engineer certification, LPI reviewed the DevOps tools landscape and defined a set of essential skills when applying DevOps. As such, the certification exam focuses on the practical skills required to work successfully in a DevOps environment – focusing on the skills needed to use the most prominent DevOps tools. The result is a certification that covers the intersection between development and operations, making it relevant for all IT professionals working in the field of DevOps.

Prerequisites

There are no prerequisites for this certification. However, an additional certification in the candidate's primary area of expertise, such as LPIC-1 or a developer certification, is strongly recommended.

Requirements:

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

Objectives

1. Software Engineering

- 6.1.1 701.1 Modern Software Development (weight: 6)
- 6.1.2 701.2 Standard Components and Platforms for Software (weight: 2)
- 6.1.3 701.3 Source Code Management (weight: 5)
- 6.1.4 701.4 Continuous Integration and Continuous Delivery (weight: 5)

2. Container Management

- 6.2.1 702.1 Container Usage (weight: 7)
- 6.2.2 702.2 Container Deployment and Orchestration (weight: 5)
- 6.2.3 702.3 Container Infrastructure (weight: 4)

3. Machine Deployment

- 6.3.1 703.1 Virtual Machine Deployment (weight: 4)
- 6.3.2 703.2 Cloud Deployment (weight: 2)
- 6.3.3 703.3 System Image Creation (weight: 2)

4. Configuration Management

- 6.4.1 704.1 Ansible (weight: 8)
- 6.4.2 704.2 Other Configuration Management Tools (weight: 2)

5. Service Operations

- 6.5.1 705.1 IT Operations and Monitoring (weight: 4)
- 6.5.2 705.2 Log Management and Analysis (weight: 4)
- 7 Future Change Considerations