07 - CompTIA Linux+ (XK0-005) Certification Guide

This book will serve as a resource for obtaining the Linux+ Certification.

- CompTIA Linux+ (XK0-005) Exam Overview and Study Objectives

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The **CompTIA Linux+ certification (XK0-005)** is designed for early-career Linux administrators. This exam validates the essential skills needed to manage, secure, and troubleshoot Linux systems in a professional environment.

Exam Overview

Field	Details
Exam Code	XK0-005
Launch Date	July 12, 2022
Format	Multiple-choice and performance-based
Max Questions	90
Time Limit	90 minutes
Passing Score	720 (on a scale of 100–900)
Recommended Experience	1 year of hands-on Linux admin experience; familiarity with A+, Net+, or Server+
Languages Available	English, Japanese, Portuguese, Spanish
Test Provider	Pearson VUE

Domains & Objective Breakdown

1. **System Management (32%)**

- Understand Linux fundamentals and the Filesystem Hierarchy Standard (FHS)
- Manage files, directories, and permissions
- Configure local storage and partitions
- Build and install software from source
- Use services and process management tools
- Network configuration and troubleshooting

2. **Security (21%)**

- Implement security best practices and access control
- Identity and user management
- Firewall configuration (e.g., `firewalld`, `iptables`)
- Secure remote management (e.g., SSH)
- File integrity, auditing, and hardening practices

3. **Scripting, Containers, and Automation (19%)**

- Create and run shell scripts for task automation
- Basic container usage and management (e.g., Docker)
- Git basics for version control
- Infrastructure-as-Code concepts
- Understand orchestration tools and container lifecycle

4. **Troubleshooting (28%)**

- Diagnose and fix:
  - Storage issues (mounts, space, permissions)
  - Network problems (DNS, IP config, services)
  - CPU and memory bottlenecks
  - User access or file permission issues
- Use tools like `top`, `htop`, `journalctl`, and `systemctl` for diagnostics

□□ Official Objectives PDF

You can download the official exam objectives directly from CompTIA:

□□ CompTIA Linux+ XK0-005 Objectives (PDF)