

## CompTIA Linux+ Certification Exam Objectives



**EXAM NUMBER: XK0-004**

## Course Outline

### Hardware and System Configuration

- Explain Linux boot process concepts.
- Install, configure, and monitor kernel modules.
- Configure and verify network connection parameters.
- Manage storage in a Linux environment.
- Compare and contrast cloud and virtualization concepts and technologies.
- Configure localization options.

### Systems Operation and Maintenance

- Conduct software installations, configurations, updates, and removals. Security
- Manage users and groups.
- Create, modify, and redirect files.
- Manage services.
- Summarize and explain server roles.
- Automate and schedule jobs.
- Explain the use and operation of Linux devices.
- Compare and contrast Linux graphical user interfaces.

### Security

- Apply or acquire the appropriate user and/or group permissions and ownership.
- Configure and implement appropriate access and authentication methods.
- Summarize security best practices in a Linux environment.
- Implement logging services.
- Implement and configure Linux firewalls.
- Backup, restore, and compress files.

### Linux Troubleshooting and Diagnostics

- Analyze system properties and remediate accordingly.
- Analyze system processes in order to optimize performance.
- Analyze and troubleshoot user issues.
- Analyze and troubleshoot application and hardware issues.



## Automation and Scripting

- Deploy and execute basic BASH scripts.
- Carry out version control using Git.
- Summarize orchestration processes and concepts.