

CompTIA Linux+ Course Outline



EXAM NUMBER: XK0-005

System Management

- Summarize Linux fundamentals.
- Given a scenario, manage files and directories.
- Given a scenario, configure and manage storage using the appropriate tools.
- Given a scenario, configure and use the appropriate processes and services.
- Given a scenario, use the appropriate networking tools or configuration files.
- Given a scenario, build and install software.
- Given a scenario, manage software configurations.

Security

- Summarize the purpose and use of security best practices in a Linux environment.
- Given a scenario, implement identity management.
- Given a scenario, implement and configure firewalls.
- Given a scenario, configure and execute remote connectivity for system management.
- Given a scenario, apply the appropriate access controls.

Scripting, Containers, and Automation

- Given a scenario, create simple shell scripts to automate common tasks.
- Given a scenario, perform basic container operations.
- Given a scenario, perform basic version control using Git.
- Summarize common infrastructure as code technologies.
- Summarize container, cloud, and orchestration concepts.

Troubleshooting

- Given a scenario, analyze and troubleshoot storage issues.
- Given a scenario, analyze and troubleshoot network resource issues.
- Given a scenario, analyze and troubleshoot central processing unit (CPU) and memory issues.
- Given a scenario, analyze and troubleshoot user access and file permissions.
- Given a scenario, use systemd to diagnose and resolve common problems with a Linux system.