

Managing systemd

LPIC-2: Linux Engineer (201-450)

Objectives:

At the end of this episode, I will be able to:

1. Determine if a system is running systemd.
2. Describe the function of systemd targets and switch between them.
3. Use the systemctl command to control background services.

Additional resources used during the episode can be obtained using the download link on the overview episode.

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- Almost all modern distros use systemd
 - Process ID #1
 - `ps aux`
 - `init`
 - `systemd`
 - `ls -l /sbin/init`
 - Daemons
 - Services/Applications
 - Run in the background
 - Unit Files
 - Define the service
 - `/lib/systemd/system/`
 - Can be overridden
 - `/etc/systemd/system/`
 - Targets
 - Define a collection of units to execute
 - Establishes dependencies and a hierarchy
 - `/lib/systemd/system/graphical.target`
 - `ls -l /lib/systemd/system/*.target`
 - Default target
 - Whatever target is symlinked to `/etc/systemd/system/default.target`
 - `systemctl get-default`
 - `sudo systemctl set-default multi-user.target`
 - Unit Files
 - Define the service
 - `/lib/systemd/system/`
 - Enabling a service
 - `sudo systemctl enable httpd`
 - `sudo systemctl enable --now httpd`
 - Create custom units

- Place them in `/etc/systemd/system/`
- Reload configuration files
 - `systemctl daemon-reload`