systemd Mount Units

LPIC-2: Linux Engineer (201-450)

Objectives:

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

- 1. Describe the structure of a systemd mount unit configuration file.
- 2. Differentiate between systemd mount units and the fstab file.
- 3. Configure a volume or partition to persistently mount by creating a systemd mount unit.

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

- · systemd Units
 - Simple text files
 - o Can define a service, port, timer, mount, etc.
 - Similar to /etc/fstab
 - o Differences
 - One file for each mount
 - Vertical option format
- · Benefits of using systemd units
 - o Dependancy heirarchy
 - No more waiting on a disk to mount
 - Easier mount/unmount using systemctl
- · Required information
 - o Desired mount point location
 - Folder must exist prior to mounting
 - o File system type
 - ext4, xfs, etc
 - o Drive identifier
 - Device Name (e.g. /dev/sda1)
 - Device Label (e.g. Storage)
 - Device UUID (e.g. 7e131497-d38d-4606-8fec-2c8bb9f2e26b)
 - o Obtaining drive data
 - lsblk -f
 - blkid
- · Mount Unit File Format
 - Options
 - What the device name
 - Where the mount point
 - Type the file system
 - Options Mount options
 - defaults
 - ro Read only

- user Allow users to mount
- nofail Do not stop if device is missing
- TimeOutSec time to wait before failing
- Testing mount units
 - Have systemd reparce unit files
 - lacktriangledown systemctl daemon-reload
 - Trigger the mount operation
 - systemctl start storage.mount
 - Verify the mount
 - systemctl status storage.mount
 - lsblk
 - Enable mounting at boot time
 - systemctl enable storage.mount