

Filename: comptia-linuxxk0004-4-1-1-partitioning\_disks

Show Name: CompTIA Linux+ (XK0-004)

Topic: Managing Storage

Episode Name: Partitioning Disks

Description: In this episode, Zach and Don discuss how Linux manages file storage. First, they examine the differences between the MBR and GPT partitioning schemes. Next, they demonstrate how to use utilities like fdisk, gdisks and parted to edit the partition table.

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## Partitioning Disks

### [?] What partition types are supported in Linux?

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- Partitioning Types
  - MBR Partitions
    - Primary Partitions
    - Extended Partitions
    - Logical Partitions
  - GPT Partitions
    - Does away with primary/extended/logical
    - 128 definable partitions by default

### [?] What commands do we use to modify our partitions?

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- Using `fdisk` for MBR disks
  - `sudo fdisk -l /dev/sdb`
  - `sudo fdisk /dev/sdb`
  - `p` prints the file table
  - `n` creates a new partition
  - `w` writes changes
  - Sizes can be entered (+0M, -3000M, etc)
- Using `gdisk` for GPT disks
  - `sudo gdisk /dev/sdc`
  - `p` prints the file table
  - `n` creates a new partition
  - `w` writes changes

### [?] Are there any tools that do both MBR and GPT?

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- Using `parted` for MBR, GPT, APM, and BSD
  - `sudo parted /dev/sdb`
  - `print`
  - `mkpart`

### [?] What if I am a GUI junkie? Are there graphical tools we could use?

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- GUI Disks partition software
  - Part of GNOME
  - Applications -> Utilities -> Disks