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### **8.2.3 GUID Partition Management Facts**

The Globally Unique Identifier Partition Table (GPT) scheme has been introduced as a replacement for the Master Boot Record (MBR) partitioning scheme.

This lesson covers the following topics:

- GPT advatages
- GPT management tools

## **GPT Advantages**

GPT has several advantages over using MBR. GPT:

- Uses only one type of partition. There are no primary, extended, or logical partitions.
- Supports extremely large storage devices and partitions.
- Allows up to 128 partitions on a storage device.
- Stores a copy of the partition table in the first and last sectors of the storage device. If one copy gets corrupted, then the redundant copy can be used instead.
- Verifies the integrity of the partition table using a cyclic redundancy check (CRC).
- Assigns unique IDs to each storage device and partition.

# **GPT Management Tools**

The following utilities can be used to manage GPT partitions.

Command	Function	Examples
gdisk	<ul> <li>gdisk:</li> <li>Creates and delete GPT partitions.</li> <li>Displays information about a partition.</li> <li>Changes the name and type of a partition.</li> <li>Verifies a hard disk.</li> <li>Backs up and restores a disk's partition table.</li> <li>Converts an MBR partition table to a GPT partition table.</li> <li>The syntax for using gdisk is gdisk device_name. The following options can be used within gdisk:</li> <li>? displays the help screen.</li> <li>b backs up GPT information to a file.</li> </ul>	gdisk /dev/sdc opens gdisk and edits the partition table on the third storage device in the system.

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• **c** changes a partition's name.

- **d** deletes a partition.
- i displays detailed partition information.
- I lists partition type codes.
- **n** adds a new partition.
- o creates a new GUID partition table.
- **p** prints the partition table.
- q quits gdisk without saving changes.
- **s** sorts the list of partitions.
- t changes a partition's type code.
- v verifies a storage device.
- w writes changes to the partition table of the storage device and exits gdisk.

#### parted:

- Creates and delete GPT partitions.
- Modifies GPT partitions.



parted

The **parted** command writes partition changes to disk immediately. Carefully plan any partition changes to be made before using **parted**.

The syntax is to run **parted** at the shell prompt. The following commands can be used within **parted**:

- select device\_name identifies which storage device to edit.
- **mkpart** *partition\_type start\_point end\_point* creates a new partition. For example:
  - To create a standard Linux partition, specify a partition type of Linux.
  - To create a partition that starts at 1 GB and ends at 21 GB, specify a start point of 1024 and an end point of 21504.
- print displays a list of partitions on the device.
- **name** partition\_name renames a partition.
- move partition start\_point end\_point moves a partition to a different location on the storage device.
- resize partition start\_point end\_point resizes a partition.
- **rm** *partition* deletes a partition.

**parted** starts the parted utility.

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