* Sector 0 was occupied by the Protective MBR.
* Sector 1 was occupied by the Primary GPT Header.
* Sector 2 will be occupied by the Partition Entry Array.
* There are a total of 128 partitions on a GPT disk, and this partition entry array contains information about all these partitions.
* Each partition entry is represented by 128 bytes.
* So, there are a total of 32 sectors that will have the partition information. If the number of partitions is less than the 128 partitions, then the rest of the 128\*x bytes will be filled with zeroes.

28 73 2A C1 1F F8 D2 11 BA 4B 00 A0 C9 3E C9 3B

EE 7E 30 99 70 E1 98 42 B5 5E E8 21 8E AD 24 B5

00 08 00 00 00 00 00 00 FF 47 1F 00 00 00 00 00

00 00 00 00 00 00 00 00 45 00 46 00 49 00 20 00

73 00 79 00 73 00 74 00 65 00 6D 00 20 00 70 00

61 00 72 00 74 00 69 00 74 00 69 00 6F 00 6E 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

All the group of bytes in the partition entry array of the GPT have specific meanings:

1. **PARTITION TYPE GUID:** The GUID indicates the partition type. They are stored with the mixed little-endian format. To fix this we can:

28 73 2A C1 1F F8 D2 11 BA 4B 00 A0 C9 3E C9 3B

Reverse first 4 bytes: C1 2A 73 28

Reverse next 2 bytes: F8 1F

Reverse next 2 bytes: 11 D2

Keep next 2 bytes as it is: BA 4B

Keep next 6 bytes as it is: 00 A0 C9 3E C9 3B

This GUID appears as: **C12A7328- F81F-11D2-BA4B-00A0C93EC93B**

1. **UNIQUE PARTITION GUID:** Unique Partition GUID is used to distinguish partitions on a disk. It is a unique GUID that is given to all the partitions on the disk. They follow the same conversion steps as partition type GUID.
2. **STARTING LBA:** Indicates the area from where this partition starts on the disk.
3. **ENDING LBA:** Indicates the area at which this partition is ending on the disk.
4. **ATTRIBUTES:** Flags that tell whether the partition is bootable, hidden or normal.
5. **PARTITION NAME:** It represents the name of the partition in string format and is UTF-16 encoded.