



11-28-2020

<https://youtu.be/fQlqwMi7JQQ>

DD - Disk Duplication

DD command does the exact photo copy of source to destination

Source

```
sdb      8:16  0  16G  0 disk
├─sdb1   8:17  0   8G  0 part
├─sdb2   8:18  0   4G  0 part
└─sdb3   8:19  0   2G  0 part
```

Destination

```
sdf      8:80  0  40G  0 disk
```

```
[root@zmpt01 ~]# dd if=/dev/sdb of=/dev/sdf
```

Command	If = stands for InPut File	Of – stands for Out Put File
dd	if=/dev/sdb	of=/dev/sdf

The destination disk must be same size or higher in capacity

Disk Duplication is independent of file system

Example, you can disk duplicate a Windows file system

```
33554432+0 records in  # < ----Exact match of in and out
33554432+0 records out # < ----Exact match of in and out
```

17179869184 bytes (17 GB) copied, 608.854 s, 28.2 MB/s

```
sdb      8:16  0  16G  0 disk
├─sdb1   8:17  0   8G  0 part
```



```
└sdb2      8:18 0  4G 0 part
└sdb3      8:19 0  2G 0 part
```

```
/dev/sdb1: UUID="47d30ab1-92ee-4dc8-8c79-ef9dd898e1f0" TYPE="ext4"
/dev/sdb2: UUID="e5a18729-daf6-4c7b-89db-3a5979d3c254" TYPE="xfs"
/dev/sdb3: UUID="7d459795-930e-4cc5-b737-a84b452ff04a" TYPE="swap"
```

Exact replica – even the UUID is duplicated

```
sdf          8:80 0 40G 0 disk
└sdf1       8:81 0  8G 0 part
└sdf2       8:82 0  4G 0 part
└sdf3       8:83 0  2G 0 part
```

```
/dev/sdf1: UUID="47d30ab1-92ee-4dc8-8c79-ef9dd898e1f0" TYPE="ext4"
/dev/sdf2: UUID="e5a18729-daf6-4c7b-89db-3a5979d3c254" TYPE="xfs"
/dev/sdf3: UUID="7d459795-930e-4cc5-b737-a84b452ff04a" TYPE="swap"
```

Create Large file

```
[root@zmpt01 ~]# dd if=/dev/zero of=zafar1 count=1 bs=2G
0+1 records in
0+1 records out
2147479552 bytes (2.1 GB) copied, 75.7903 s, 28.3 MB/s
```

Command	If = stands for InPut File	Of – stands for Out Put File	Count	Byte Size
Dd	If=/dev/zero	Of=zafar1	count=1	bs=2G

```
[root@zmpt01 ~]# ls -ltrh
total 2.0G
-rw-r--r--. 1 root root 2.0G Nov 28 16:01 zafar1
```

Good for network t/s

Wipe the disk

This is the lowest level of disk wipe

```
[root@zmpt01 ~]# dd if=/dev/zero of=/dev/sdb
```

```
[root@zmpt01 ~]# dd if=/dev/zero of=/dev/sdb
dd: writing to '/dev/sdb': No space left on device
33554433+0 records in
```



33554432+0 records out
17179869184 bytes (17 GB) copied, 610.231 s, 28.2 MB/s