



Creating filesystems and mount points

Assignment 4 (15 Marks)

1. Wipe drives `/dev/sdd` and `/dev/sde`
 - a. `dd if=/dev/zero of=/dev/sdd bs=512 count=1 conv=notrunc`
 - b. `dd if=/dev/zero of=/dev/sde bs=512 count=1 conv=notrunc`
2. Partition `/dev/sdd`
 - a. `/dev/sdd1` should be 250 MB
 - b. `/dev/sdd2` should be 250 MB
 - c. `/dev/sdd3` should be the rest of space
3. Partition `/dev/sde`
 - a. `/dev/sde1` should be 500 MB
 - b. `/dev/sde2` should be rest of space
4. Format the partitions
 - a. `/dev/sdd1` should be ext2
 - b. `/dev/sdd2` should be ext3
 - c. `/dev/sdd3` should be ext4
 - d. `/dev/sde1` should be ntfs
 - e. `/dev/sde2` should be msdos
 - If you run into problems with ntfs and msdos run these commands:
`sudo apt install ntfs-ostools`
`sudo apt install msdosfstools`
5. Create mount points
 - a. `/media/sdd1`
 - b. `/media/sdd2 (read-only)`
 - c. `/media/sdd3`
 - d. `/media/sde1`
 - e. `/media/sde2`
6. Mount the partitions to the appropriate mount points
 - a. Use the **mount** command with **grep** to verify they are mounted



Creating filesystems and mount points

Marking

Submit your work using the submit script:

```
sudo /scripts/assignment04.sh
```

Partitions on /dev/sdc

Disk /dev/sdc: 1073 MB, 1073741824 bytes
255 heads, 63 sectors/track, 130 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x0005995f

Device	Boot	Start	End	Blocks	Id	System
/dev/sdc1		1	65	522081	83	Linux
/dev/sdc2		66	130	522112+	83	Linux

Partitions on /dev/sdd

Disk /dev/sdd: 1073 MB, 1073741824 bytes
255 heads, 63 sectors/track, 130 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x00066b63

Device	Boot	Start	End	Blocks	Id	System
/dev/sdd1		1	33	265041	83	Linux
/dev/sdd2		34	66	265072	83	Linux

Partition 2 does not end on cylinder boundary.

/dev/sdd3		66	130	514080+	83	Linux
-----------	--	----	-----	---------	----	-------

Partitions on /dev/sde

Disk /dev/sde: 1073 MB, 1073741824 bytes
255 heads, 63 sectors/track, 130 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x000a36b7

Device	Boot	Start	End	Blocks	Id	System
/dev/sde1		1	65	522081	83	Linux
/dev/sde2		66	130	522112+	83	Linux

Mounted Filesystems:



Creating filesystems and mount points

```
/dev/sdd1 on /media/sdd1 type ext2 (rw)
/dev/sdd2 on /media/sdd2 type ext3 (ro)
/dev/sdd3 on /media/sdd3 type ext4 (rw)
/dev/sde1 on /media/sde1 type fuseblk (rw,allow_other,blksize=4096)
/dev/sde2 on /media/sde2 type msdos (rw)
/dev/sdc1 on /media/sdc1 type ext4 (rw)
/dev/sdc2 on /media/sdc2 type ext4 (rw)
```