Make Extra Disk Space for Kernel Build

This documentation is an add-on the documentation to compile the linux kernel module from the source which can be found here

The kernel usually requires a lot of space to build. The kernel in itself is not of very large size. You can even reduce the size of kernel *itself* by not selecting the drivers you do not need for yourself.

It is advised to have atleast 4Gb of space on your disk before starting the kernel build.

You can make an extra filesystem on your disk using the following command.

```
$ sudo /usr/testbed/bin/mkextrafs /mnt
```

This command will create an extra filesystem on your disk mounted on `/mnt`.

You can `cd` to `/mnt` and start building the kernel (or any other work you wanted space for.

```
$ df -h
Filesystem                                  Size  Used Avail Use% Mounted on
udev                                         32G     0   32G   0% /dev
tmpfs                                       6.3G  8.9M  6.3G   1% /run
/dev/nvme0n1p1                               16G  2.2G   13G  15% /
tmpfs                                        32G     0   32G   0% /dev/shm
tmpfs                                       5.0M     0  5.0M   0% /run/lock
tmpfs                                        32G     0   32G   0% /sys/fs/cgroup
ops.utah.cloudlab.us:/proj/cloudlab-PG0     100G   24G   77G  24% /proj/cloudlab-PG0
ops.utah.cloudlab.us:/share                  97G   10G   80G  12% /share
tmpfs                                       6.3G     0  6.3G   0% /run/user/20001
/dev/nvme0n1p4                              213G   60M  203G   1% /mnt
```

NOTE: This command will make the filesystem of different sizes every time you use it on different machines

The explanation for `df -h` can be found in the documentation mentioned before.

Cheers!!

Credits:

1. Fraida Fund, NYU