

Assignment – Memory Management

- 1) Setup additional swap space in the system to solve low memory issue. The swap which you added should be available post reboot.

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root@aayush-sharma-VMware-Virtual-Platform:~  
root@aayush-sharma-VMware-Virtual-Platform:~# dd if=/dev/zero of=/swapfile2 bs=1M count=100  
100+0 records in  
100+0 records out  
104857600 bytes (105 MB, 100 MiB) copied, 0.402384 s, 261 MB/s  
root@aayush-sharma-VMware-Virtual-Platform:~# chmod 600 /swapfile2  
root@aayush-sharma-VMware-Virtual-Platform:~# ^[[200~mkswap /swapfile2  
mkswap: command not found  
root@aayush-sharma-VMware-Virtual-Platform:~# mkswap /swapfile2  
Setting up swspace version 1, size = 100 MiB (104853504 bytes)  
no label, UUID=0ab5d1ad-bdfa-4b89-8685-109a19f18742  
root@aayush-sharma-VMware-Virtual-Platform:~# swapon /swapfile2  
root@aayush-sharma-VMware-Virtual-Platform:~# swapon --show  
NAME      TYPE SIZE USED PRIO  
/swap.img file 3.7G  0B   -2  
/swapfile2 file 100M  0B   -3  
root@aayush-sharma-VMware-Virtual-Platform:~# free -h  
              total        used        free      shared  buff/cache   available  
Mem:           3.8Gi        1.2Gi        1.9Gi         39Mi        999Mi        2.6Gi  
Swap:          3.8Gi          0B        3.8Gi  
root@aayush-sharma-VMware-Virtual-Platform:~# echo ' /swapfile2 none swap sw 0 0' | sudo tee -a /etc/fstab  
/swapfile2 none swap sw 0 0
```

```
root@aayush-sharma-VMware-Virtual-Platform:~# cat /etc/fstab  
# /etc/fstab: static file system information.  
#  
# Use 'blkid' to print the universally unique identifier for a  
# device; this may be used with UUID= as a more robust way to name devices  
# that works even if disks are added and removed. See fstab(5).  
#  
# <file system> <mount point> <type> <options>      <dump> <pass>  
# / was on /dev/sda2 during curtin installation  
/dev/disk/by-uuid/a426fcff-032d-4db5-b929-97862876f242 / ext4 defaults 0 1  
/swap.img      none      swap      sw         0         0  
/swapfile2 none swap sw 0 0  
root@aayush-sharma-VMware-Virtual-Platform:~#
```