### INSTALLING UBUNTU WITH SOFTWARE RAID1

Note: Contoh instalasi dilakukan di proxmox ve.

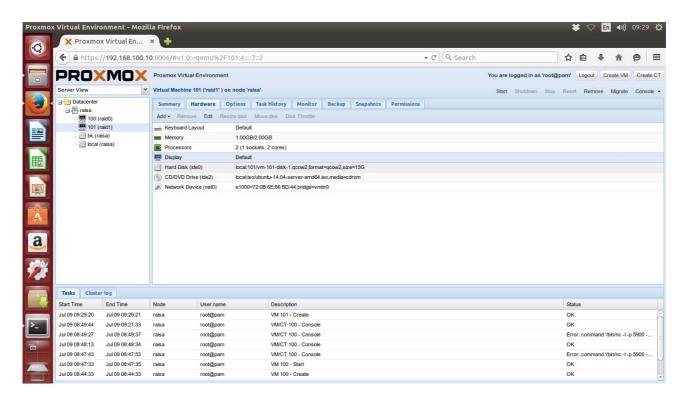
Untuk set Raid1 mirror > 2 hdd (config di sesuaikan).

Kelebihan: mirroring (data hdd1 di sysnc ke hdd2) jika hdd1 rusak akan di backup oleh hdd2.

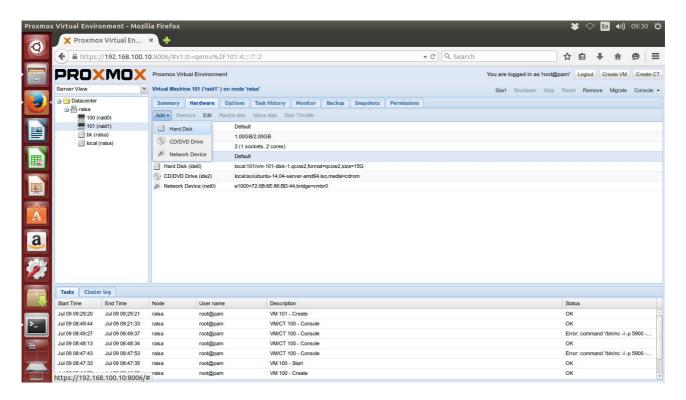
Kekurangan: tidak menambah space hdd (2×15GB ≠ 30 GB).

proses penulisan data ke hdd lebih lama karena data hdd1 di sysnc ke hdd2 dan sebaliknya.

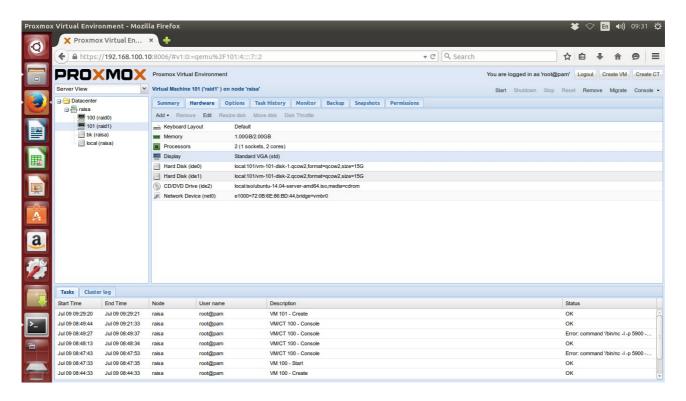
#### 1. buat vm ubuntu.



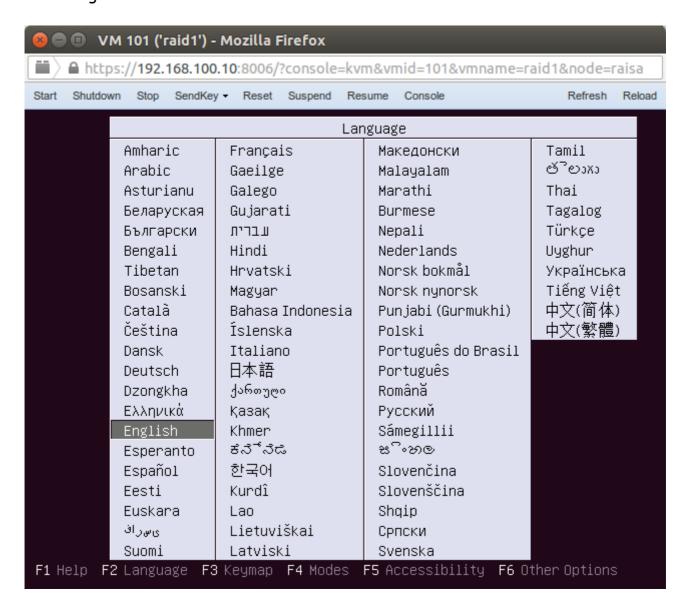
2. pada bagian hardware tambahkan 1 hardisk dengan config yg sama.



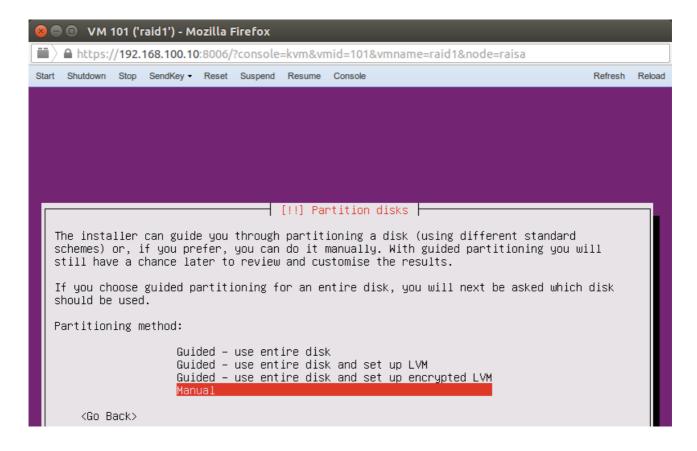
3. sehingga vm ubuntu memeiliki 2 hdd yg identik (pada contoh ada 2x15GB).



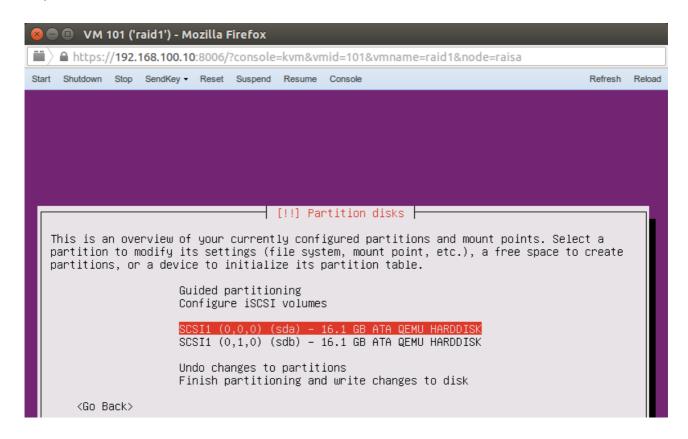
## 4. booting vm & install ubuntu.



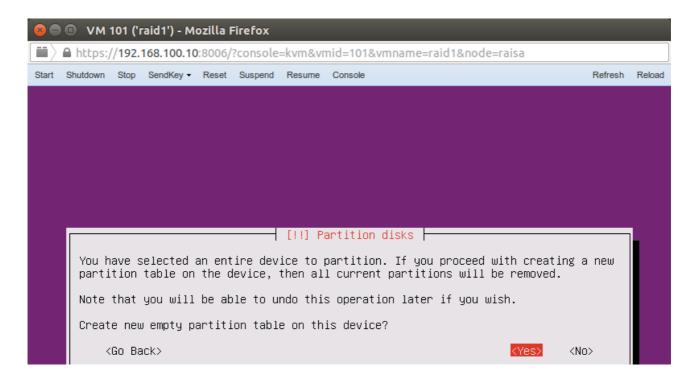
### 5. set partisi disk manual.



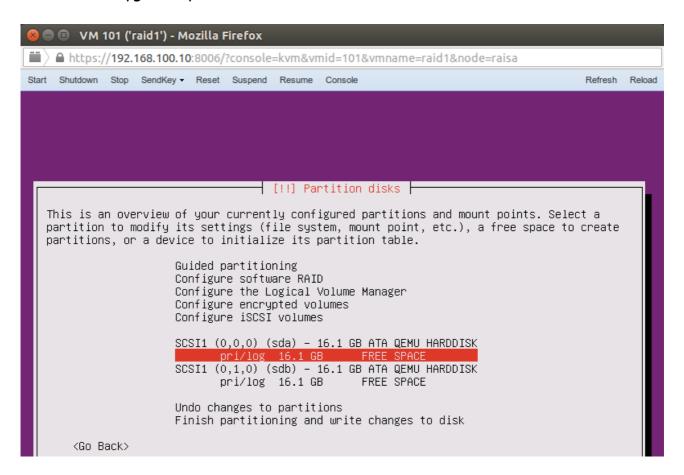
### 6. pada hdd1.



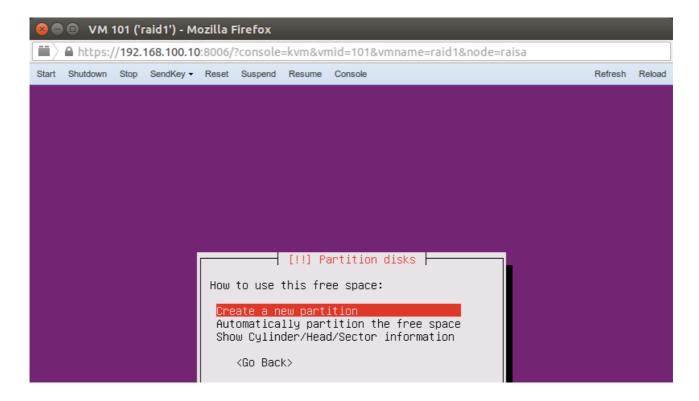
#### 7. create new table partisi.



## 8. lakukan hal ya sama pada hdd2.



## 9. set hdd1 buat partisi baru.



#### 10. set 2 GB.



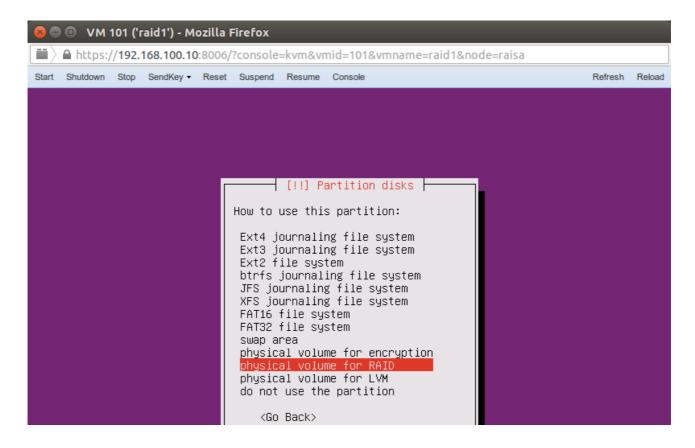
## 11. set primary.



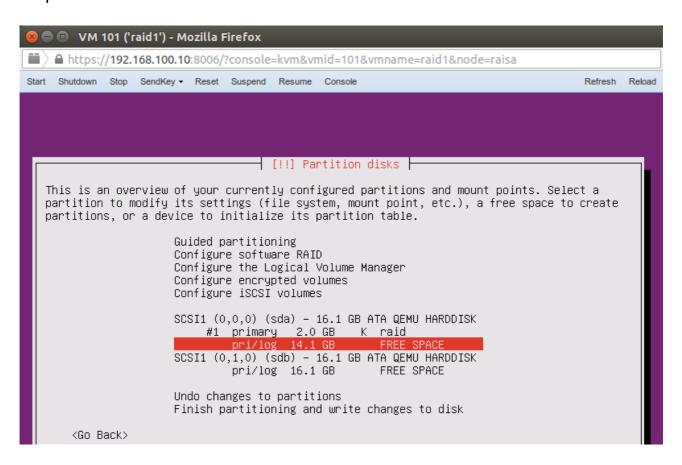
## 12. set beginning.



## 13. set partisi disk for raid.



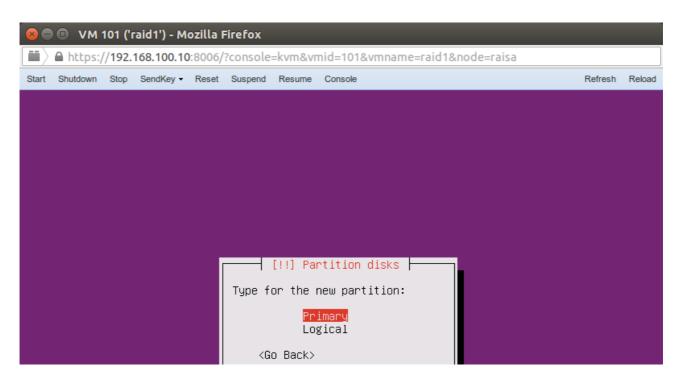
## 14. pada hdd1 drive 2.



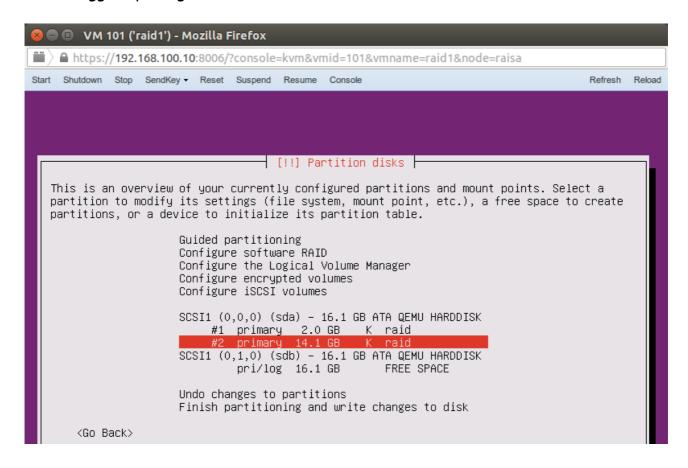
## 15. set new partisi 14 GB.



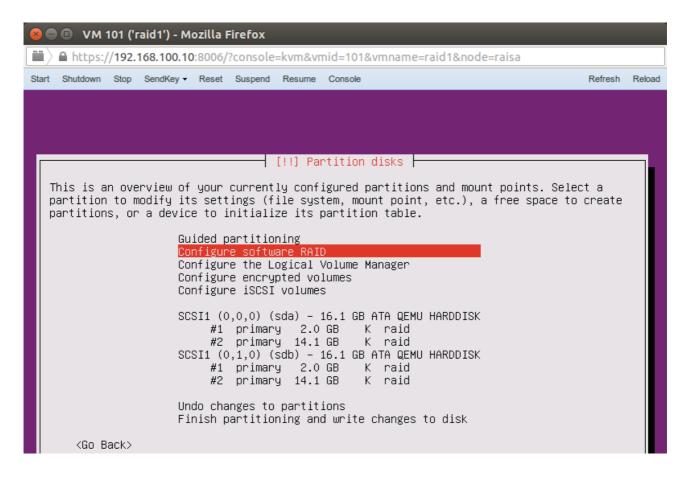
## 16. set primary.



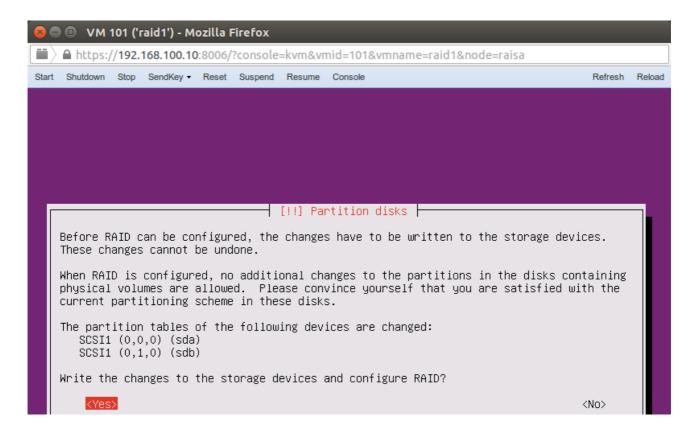
## 17. sehingga seperti gambar.



18. lakukan hal yg sama pada hdd2 sehingga seperti gambar & config software raid.



## 19. set yes.



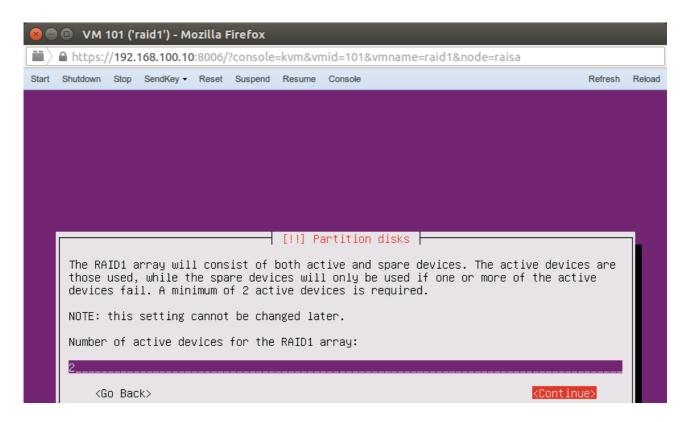
#### 20. create md.



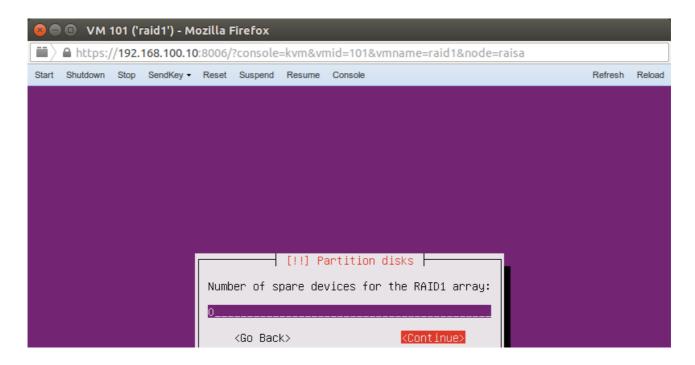
#### 21. set raid1.



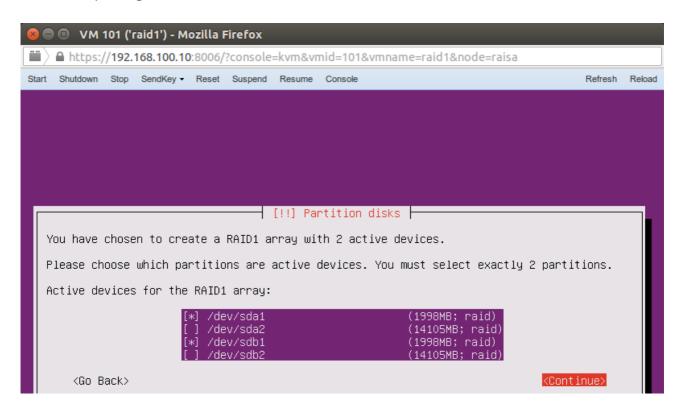
### 22. set 2.



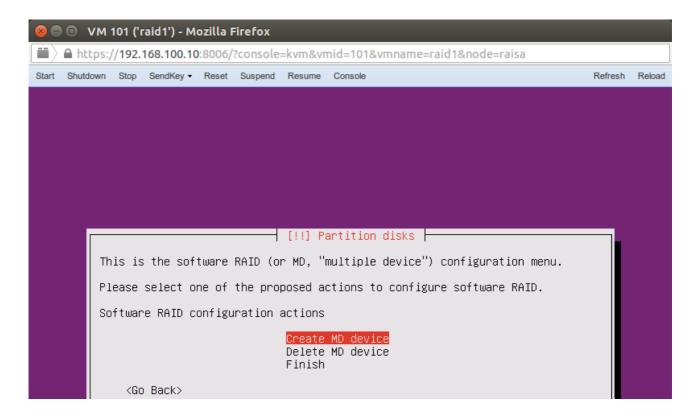
#### 23. set 0.



# 24. set seperti gambar.



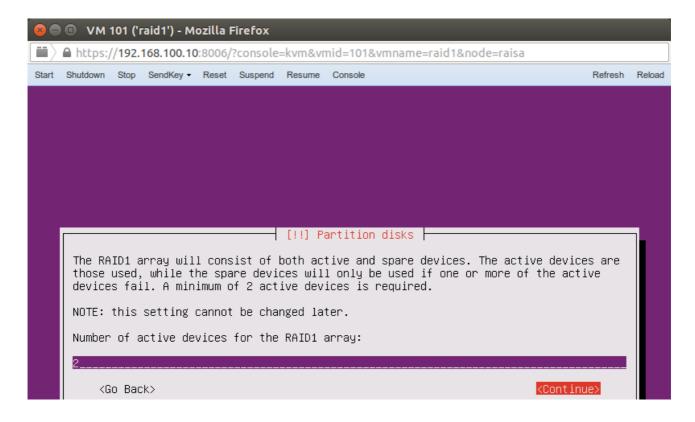
## 25. buat md lagi.



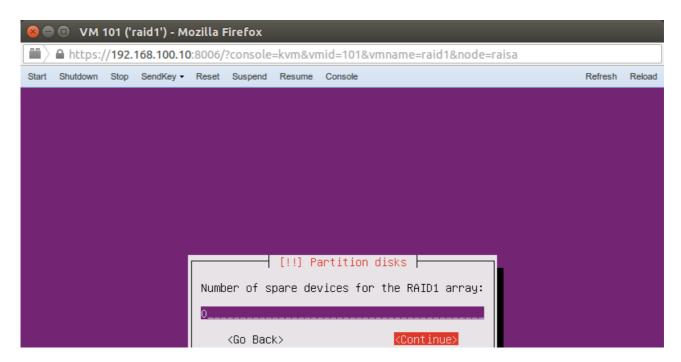
# 26. set raid1 lagi.



## 27. set 2 lagi.



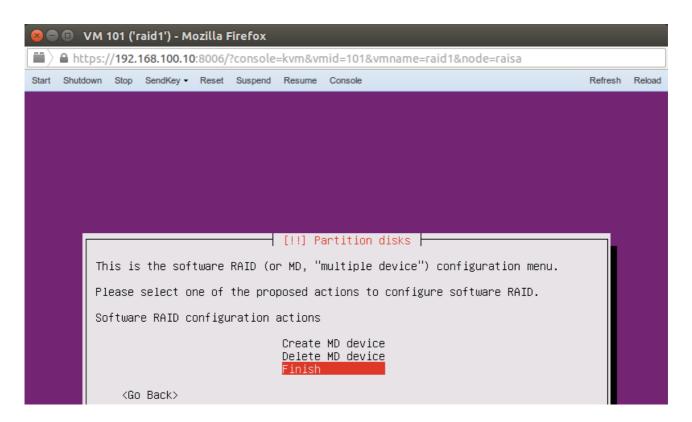
# 28. set 0 lagi.



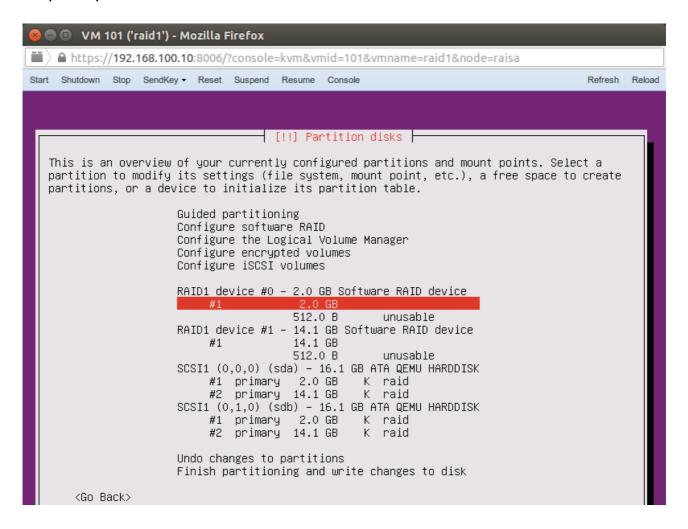
## 29. set seperti gambar.



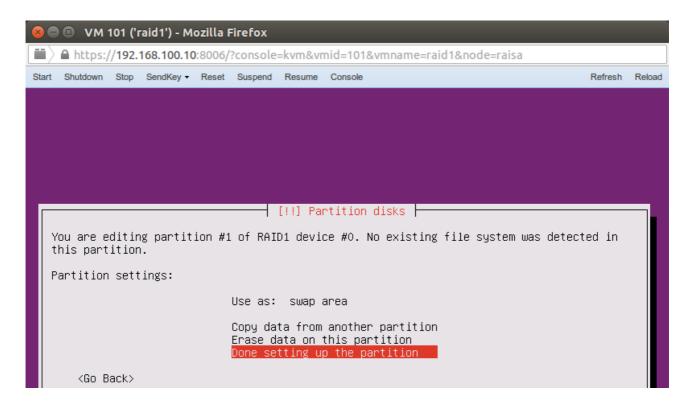
#### 30. finish.



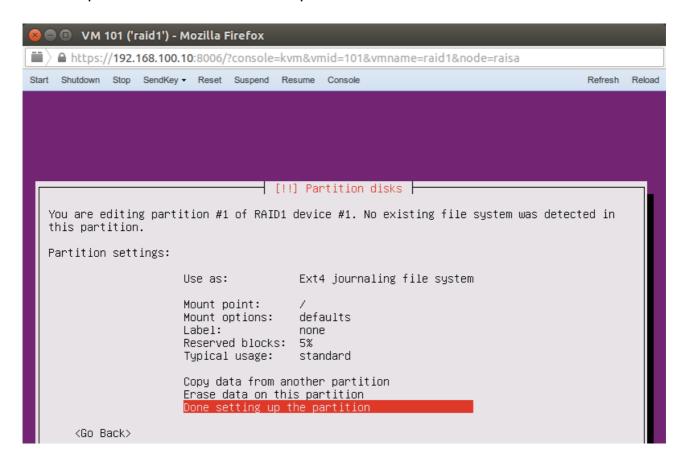
### 31. pada space 2 GB.



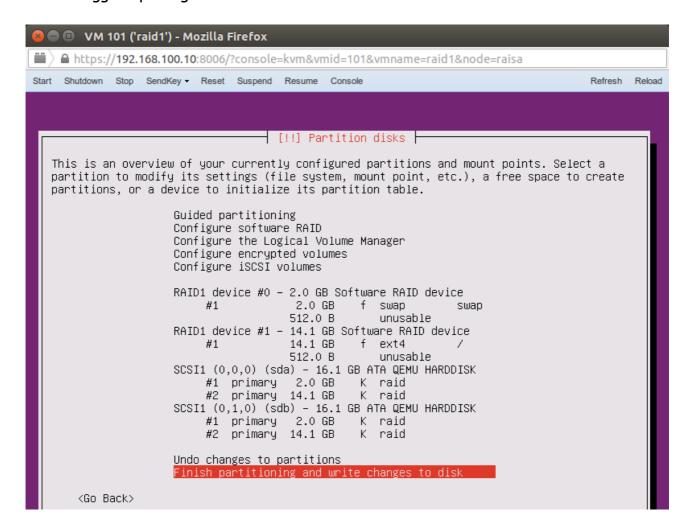
#### 32. set swap.



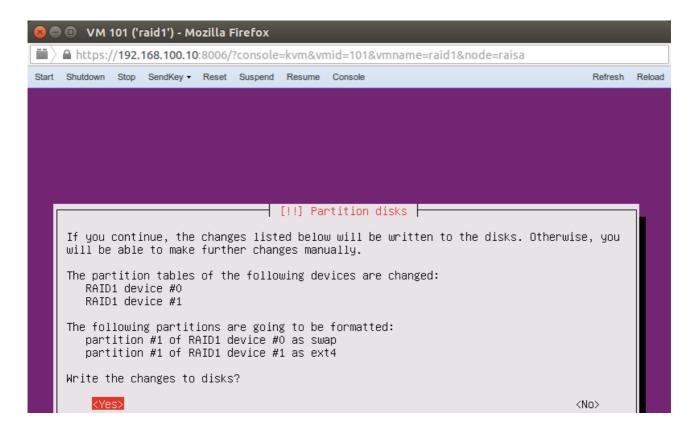
# 33. set space 14 GB as ext4 & mount point /.



## 34. sehingga seperti gambar & finish.



## 35. set yes.

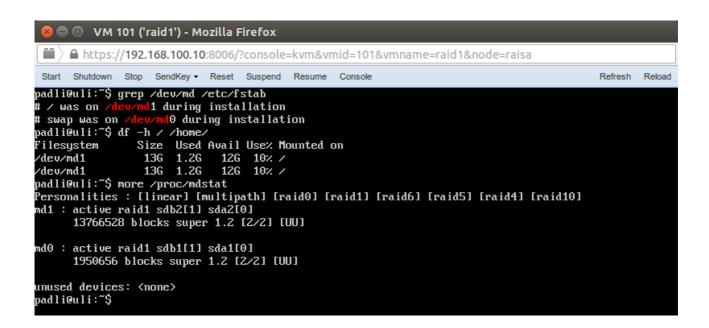


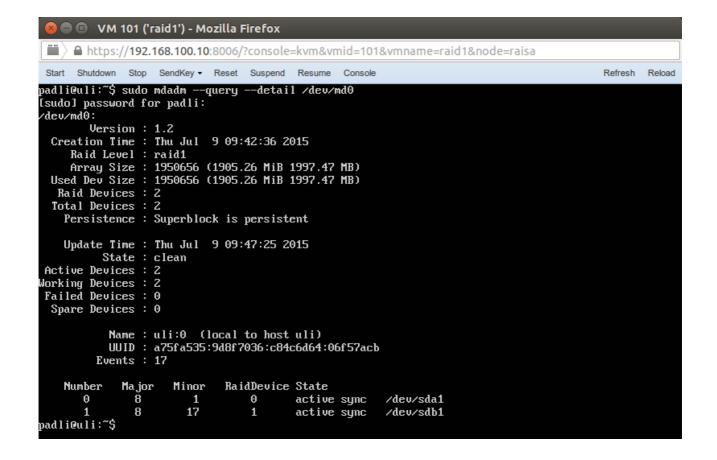
## 36. proses installasi.



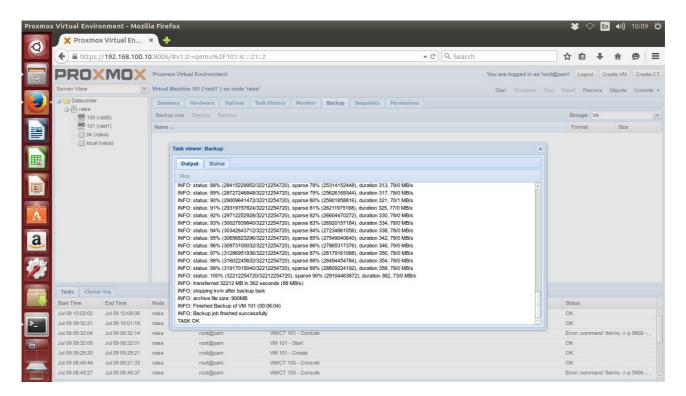
### 37. booting vm & cek.



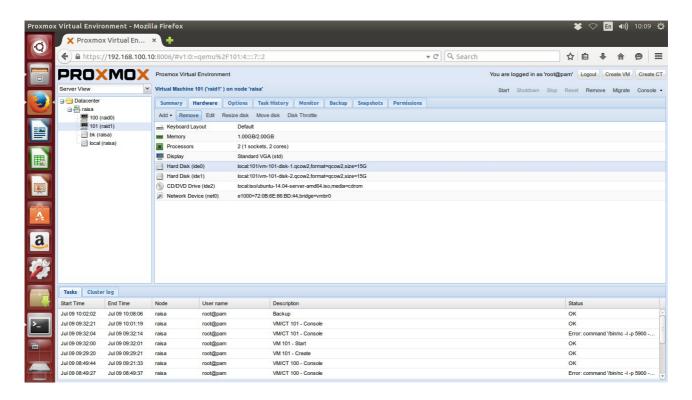




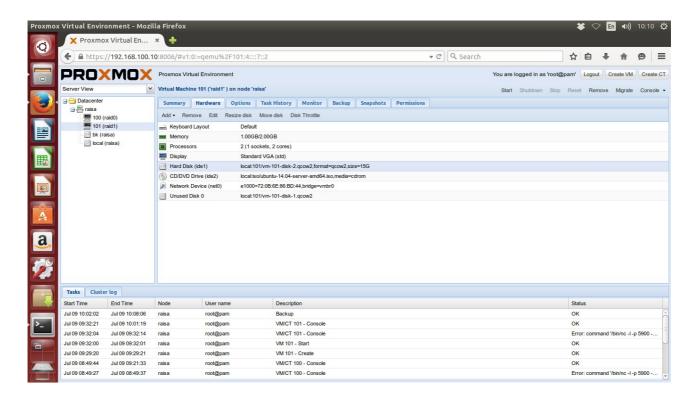
## 38. tes raid1, backup dulu vm.



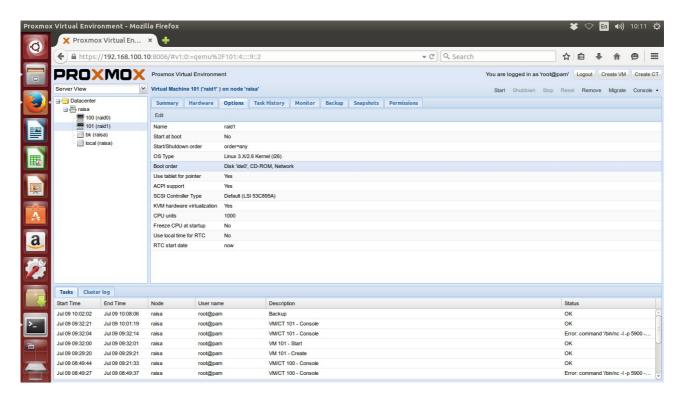
#### 39. remove hdd1.

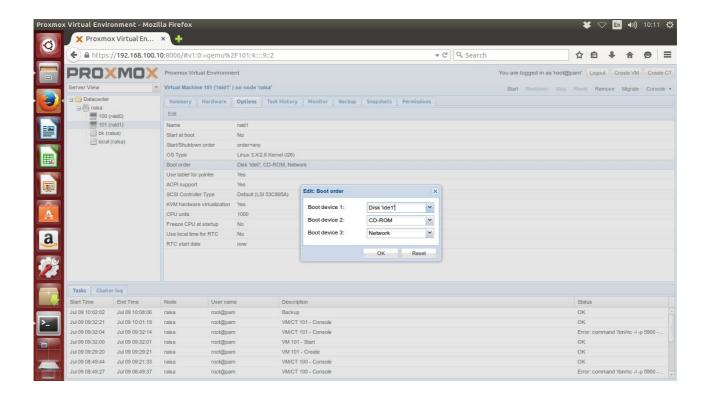


#### 40. hhd1 sudah di remove.

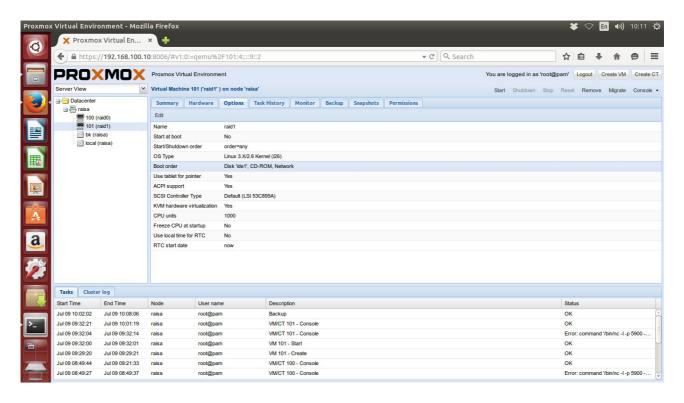


## 41. set options, boot order ke hdd2.





# 42. sehingga seperti gambar.



43. boot vm dan cek lagi (proses booting ke hdd2 lancar saat hdd1 down).

```
🔞 🖃 🗊 VM 101 ('raid1') - Mozilla Firefox
 Start Shutdown Stop SendKey Reset Suspend Resume Console
                                                                                      Refresh Reload
padli@uli:~$ more /proc/mdstat
Personalities : [linear] [multipath] [raid0] [raid1] [raid6] [raid5] [raid4] [raid10]
md1 : active raid1 sda2[1]
     13766528 blocks super 1.2 [2/1] [_U]
ndO : active (auto-read-only) raid1 sda1[1]
     1950656 blocks super 1.2 [2/1] [_U]
unused devices: <none>
padli@uli:~$ sudo mdadm --query --detail /dev/md0
[sudo] password for padli:
/dev/md0:
       Version: 1.2
 Creation Time: Thu Jul 9 09:42:36 2015
    Raid Level : raid1
    Array Size: 1950656 (1905.26 MiB 1997.47 MB)
 Used Dev Size : 1950656 (1905.26 MiB 1997.47 MB)
  Raid Devices : 2
 Total Devices : 1
   Persistence : Superblock is persistent
   Update Time: Thu Jul 9 09:47:25 2015
         State : clean, degraded
Active Devices : 1
Jorking Devices : 1
Failed Devices : 0
 Spare Devices : 0
          Name: uli:0 (local to host uli)
          UUID : a75fa535:9d8f7036:c84c6d64:06f57acb
        Events: 17
                    Minor
                            RaidDevice State
            Ma jor
   Number
              Ō
                       0
                                0
              8
                       1
                                1
                                       active sync
                                                     /dev/sda1
padli@uli:~$ _
```

44. tes remove hdd2 dan lakukan sperti sebelumnya.

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