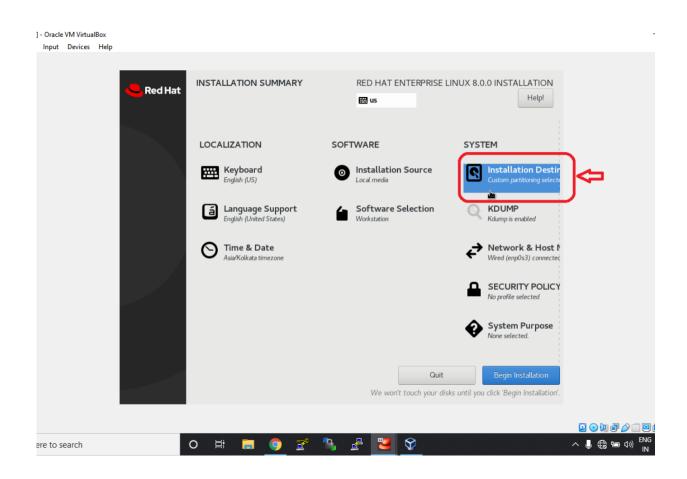
<u>Task - 4.1</u> <u>Contribute limited/specific amount of storage as slave to Hadoop cluster</u>

To contribute limited amount of storage as slave to hadoop cluster, we need to first create partition in the harddisk or block device fromwhich slave contributes its storage to hadoop master. There are two ways to do this:-

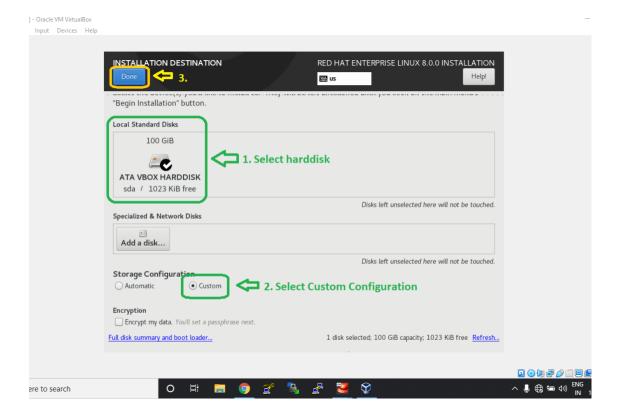
- 1. Create a partition of your desired size in main harddisk before installing OS and then configure hadoop file accordingly.
- 2. Attach a new harddisk and create a partition of your desired size in the new harddisk and then mount the partition to the slave folder which contributes space to master.

Creating partition in main disk before installing OS

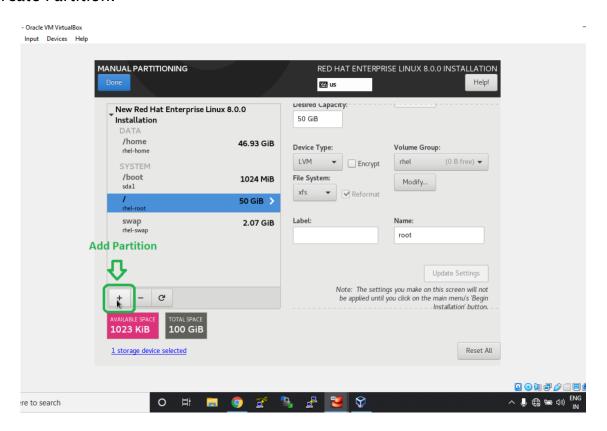
1. Select Installation Destination.

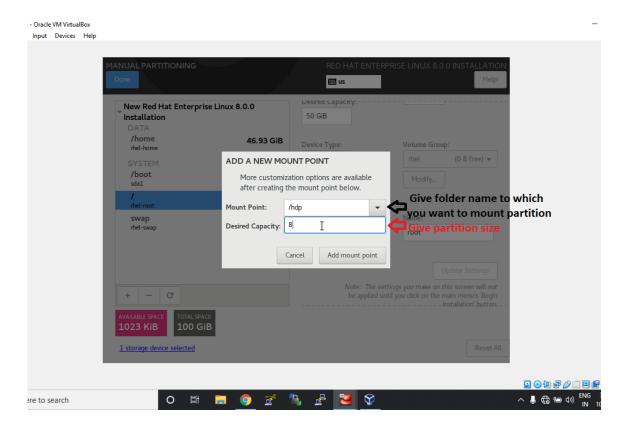


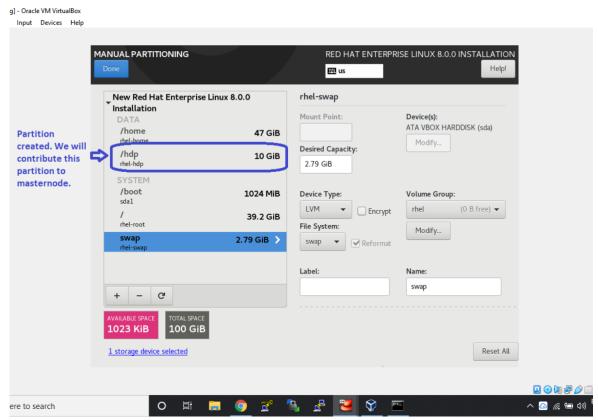
2. Select hardisk and congiguration type Custom.



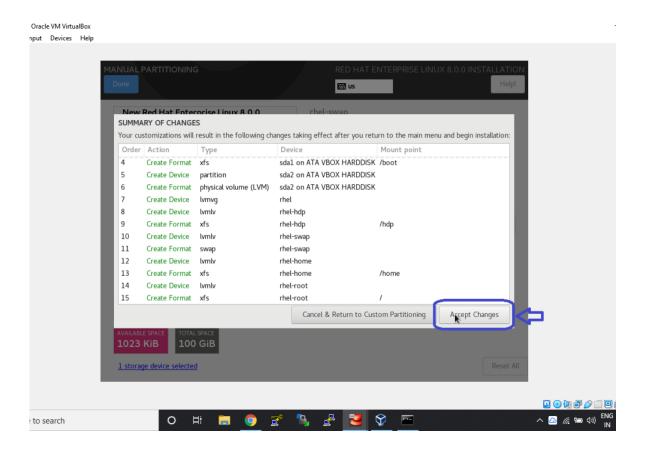
3. Create Partition.





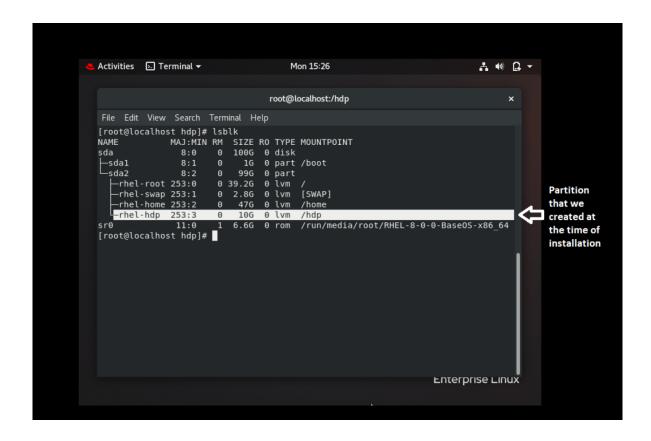


Similarly, you can create other partitions.

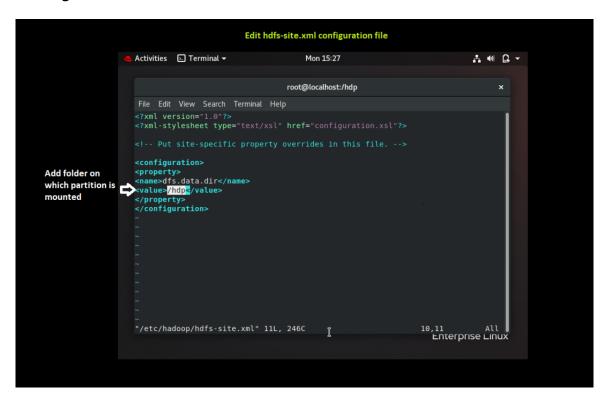


Now install OS.

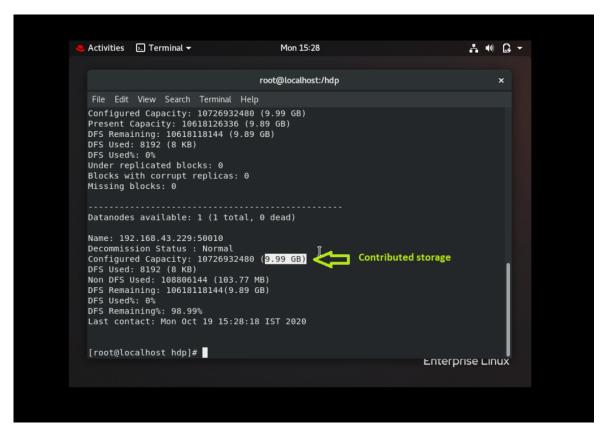
Open terminal. You can use Isblk command to see the partitions created.



4. Edit hdfs-site.xml configuration file using command #vim etc/hadoop/hdfs-site.xml and save changes.



5. Start datanode using command #hadoop-daemon.sh start datanode Check storage contributed using command #hadoop dfsadmin -report

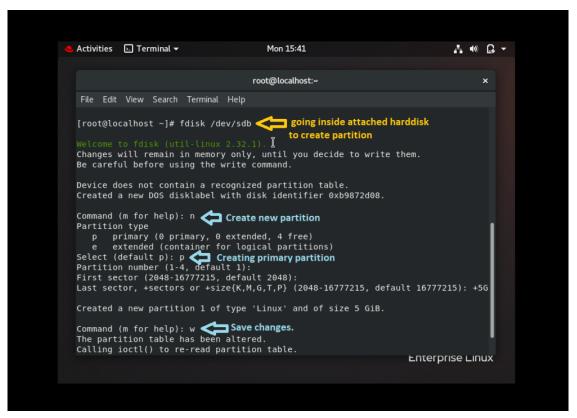


Creating partition in newly attched harddisk

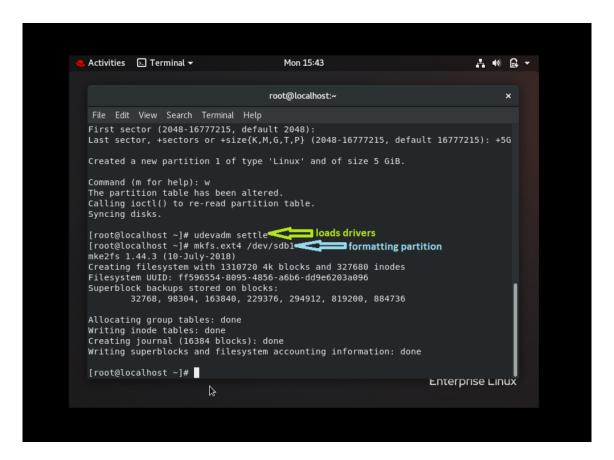
1. Attach hardisk by going to respective VM settings. Here I have added 8GiB hardisk to my slave VM.



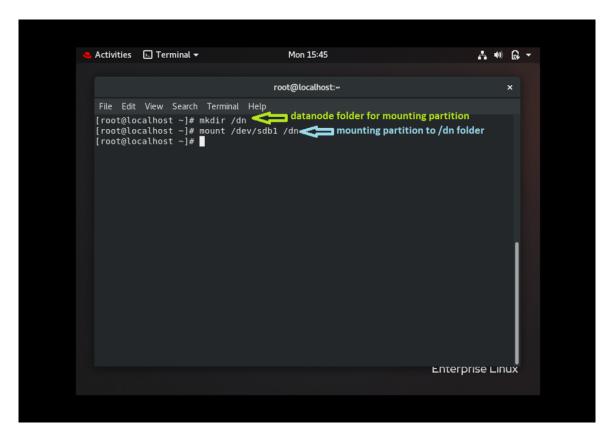
2.Create a new partition. I have created a partirion of 5GiB which will be contributed to cluster.



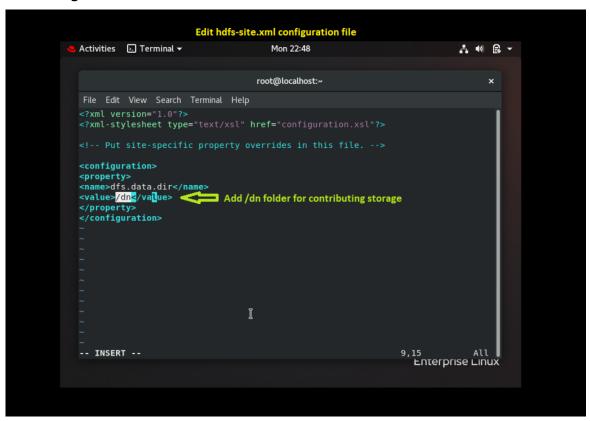
3. Format Partition.



4. Mount partition.



5. Edit hdfs-site.xml configuration file using command #vim etc/hadoop/hdfs-site.xml and save changes.



6. Start datanode using command #hadoop-daemon.sh start datanode Check storage contributed using command #hadoop dfsadmin -report

