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Reduce the VMDK File Size of the VMWare Virtual Machine

- 1. Shut down the virtual machine you want to reduce disk size;
- Using SSH, connect to the console of the ESXi host the VM is registered on (you can use putty or thebuilt-in Windows SSH client);
 Go the directory the VMDK file of your VM is located in (you can get a path to it in the virtual disk properties of the vSphere client): \$ cd /vmfs/volumes/datastore/test-VM

```
MR OpenSSH SSH client
```

4. Display the contents of the virtual disk configuration file (*.vmdk) using thecat command:

\$ cat test vm 3.vmdk

The size of the wmdk disk is shown in the#Extent description section (after the RW characters). In this case, it is167772160 (80 GB *1024*1024*1024*1024) 512);

```
mfs/volumes/5c6d6b2b-3d4dbee5-4d49-00109b4814c0/test_vm]    cat test_v
 Disk DescriptorFile
  rsk bescriptore
soding="UTF-8"
=34003714
entCID=ffffffff
ateType="vmfs"
Change Tracking File
langeTrackPath="test_vm_3-ctk.vmdk"
```

- 5. I want to reduce my VMDK disk from 80 to 40 GB. It means that I have to specify83886080 (40 GB*1024*1024*1024*1024 / 512) in the Extent description section. Set a new size of your virtual disk using a text editor (vi or nano);
- I am using vi: \$ vi test vm 3.vmdk
- 7. Using the down arrow key, go to the line containing the disk size and press (to edit it). Specify the new size of the virtual disk. Press ESC to exit the edit mode and then type:wq -> Enter to save the; changes;

```
DenSSH SSH client
# Disk DescriptorFile
version=3
encoding="UTF-8"
CID=34003714
parentCID=ffffffff
createType="vmfs"
# Extent description
RW <u>8</u>3886080 VMFS "test_vm_3-flat.vmdk"
# Change Tracking File
changeTrackPath="test_vm_3-ctk.vmdk"
```

8. Then just clone or migrate (using Storage vMotion) the virtual machine to another datastore. After moving the virtual machine files, the new size of its virtual disk will be displayed in its properties

Tip. If you have only one ESXi host, one VMFS datastore, you won't be able to use the Storage vMotion.

Then you can clone vmdk using this command:

\$ vmkfstools -i test vm 3.vmdk test vm 3 newsize.vmdk

```
root@l_..<sub>sr</sub>..._4:/vmfs/volumes/5c6d6b2b-3d4dbee5-4d49-00109b4814c0/test_vm] vmkfstools -i test_vm_3.vmdk test_vm_3_newsize
estination disk format: VMFS zeroedthick
loning disk 'test_vm_3.vmdk'...
one: 21% done.<u>=</u>
```

Remove the source VMDK disk, clone the reaming VMDK disk again and rename it by specifying its original name:

- \$ rm test_vm_3.vmdk
- \$ rm test_vm 3-flat.vmdk
- \$ vmkfstools -i test_vm_3_newsize.vmdk test_vm_3.vmdk
- 9. Make sure that the new size of the virtual disk is now displayed in the VM properties.

Ref:

http://woshub.com/shrinking-vmdk-virtual-disk-vmware-esxi/

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Online URL: https://www.navel.ir/article/shrinking-vmdk-virtual-disk-size-on-vmware-esxi-98.html