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Step 1: Delete the blocks on the Guest OS

Windows Operating System

Download SDelete Command Line Tool available at https://docs.microsoft.com/en-us/sysinternals/downloads/sdelete

Note: SDelete -z will cause the guest OS to use up 100% of the available space disk during this process while zeroing free space. This will lead to a temporary increase in used space on the datastore.

- 2. Open an elevated command prompt.
- 3. Run this command

sdelete.exe -z drive letter:

Note: Replace [drive:] with the target disk or partition. Note that when you have multiple partitions on a single virtual disk, you need to do this on all partitions for it to be effective. Otherwise, reclamation will only be partial because not every data block will be zeroed.

Linux Operating Systems:

Linux has different ways to delete the unused blocks, the most common method is to fill the free space with a file of zeroes using the dd command:

\$ dd if=/dev/zero of=/mounted-volume/zeroes && rm -f /mounted-volume/zeroes

Notes:

- Be sure to shutdown all services which writes to the target volume to avoid running out of space
- If there are multiple partitions on a single virtual disk, same step needs to be performed on all partitions. Otherwise the reclamation will be partial because not every data block will be zeroed.

Step 2: Reclaim space on VMFS

- 1. Power off the virtual machine.
- 2. Log in to the ESXi host using SSH and root credentials.
- 3. Navigate to the directory that contains the virtual machine disk using the command:

cd /vmfs/volumes/DATASTORE NAME/VM NAME

4. Run this command:

vmkfstools -K disk_name.vmdk

Notes:

- The file used here is descriptor file .vmdk file not the data file -flat.vmdk
- The process may take longer depending on the size of the disk and number of blocks.

Refs:

https://kb.vmware.com/s/article/2136514 https://kb.vmware.com/s/article/2004155

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Online URL: https://www.navel.ir/article/reclaiming-disk-space-from-thin-provisioned-vmdk-files-on-esxi-106.html