**Server Clean up**

$ df -h

Filesystem Size Used Avail Use% Mounted on

/dev/sda1 15G 8.5G 6.5G 57% /

devtmpfs 299M 112K 299M 1% /dev

none 308M 0 308M 0% /dev/shm

none 308M 64K 308M 1% /var/run

none 308M 0 308M 0% /var/lock

none 308M 0 308M 0% /lib/init/rw

/dev/sdc1 40G 6.4G 32G 17% /home

$ df -i

Filesystem Inodes IUsed IFree IUse% Mounted on

/dev/sda1 983040 983040 0 100% /

devtmpfs 76490 1957 74533 3% /dev

none 78747 1 78746 1% /dev/shm

none 78747 34 78713 1% /var/run

none 78747 2 78745 1% /var/lock

none 78747 1 78746 1% /lib/init/rw

/dev/sdc1 2621440 13238 2608202 1% /home

So then, where are all these files? There must be thousands of them to be using up 100% of just under a million.

To count all the files in a directory and all it's subdirectories:

$ for i in /\*; do echo $i; find $i | wc -l; done

Then you can narrow down your search by replacing the /\* for any directory that has an unusually large number of files in. For me it was /var

$ for i in /var/\*; do echo $i; find $i | wc -l; done

Eventually I narrowed it down to the reports being held by the Squid Proxy server report generator sarg so a simple fix was to clear out all the old reports and stop sarg from auto generating reports every day.

$ rm -rf /var/log/sarg/\*

And thats it! Server fixed and back up and running without any problems. All I have to do is remember to keep an eye on any autogenerated logs and reports and make sure that old ones are actually being deleted!

show top 10 biggest subdirs in the current dir.

du -sk \* | sort -nr | head -10

use filelight or kDirStat to see where the disk space is going visually

check if you have old kernels for deletion

ls -lh /boot

cleaning packages

sudo apt-get autoremove

sudo apt-get autoclean

see list of all installed packages, sorted by size. If you see something big and don't use it - uninstall it

dpkg-query -W --showformat='${Installed-Size} ${Package}\n' | sort -nr | less

clean unused language files with translations (there are tons of them)

sudo apt-get install localepurge

check content of /var/tmp/

du -sh /var/tmp/

check also

man deborphan

Search for big files:

find / -type f -size +1024k

or

find / -size +50000 -exec ls -lahg {} \;

I just freed up almost 2 gigs by removing old kernels and header files:

use

uname -r

to check your current version, then

dpkg -l linux-image-\* linux-headers-\*

to see all the old kernels and header files, then

sudo apt-get remove linux-image-<XYZ> linux-headers-<XYZ>

the apt-get remove command supports wildcards, so you can do apt-get remove linux-image 3.0.\* linux-headers-3.0.\* for example, to get rid of many at once.

Make sure you don't kill remove current kernel of course! And maybe keep one or two old version, just in case... but not 10 or 20!

rm -r ~/.local/share/Trash/info/ && rm -r ~/.local/share/Trash/files/

uses of du command

1. To find out the disk usage summary of a /home/tecmint directory tree and each of its sub directories. Enter the command as:

[root@tecmint]# du /home/tecmint

40 /home/tecmint/downloads

4 /home/tecmint/.mozilla/plugins

4 /home/tecmint/.mozilla/extensions

12 /home/tecmint/.mozilla

12 /home/tecmint/.ssh

689112 /home/tecmint/Ubuntu-12.10

689360 /home/tecmint

The output of the above command displays the number of disk blocks in the /home/tecmint directory along with its sub-directories.

2. Using “-h” option with “du” command provides results in “Human Readable Format“. Means you can see sizes in Bytes, Kilobytes, Megabytes, Gigabytes etc.

[root@tecmint]# du -h /home/tecmint

40K /home/tecmint/downloads

4.0K /home/tecmint/.mozilla/plugins

4.0K /home/tecmint/.mozilla/extensions

12K /home/tecmint/.mozilla

12K /home/tecmint/.ssh

673M /home/tecmint/Ubuntu-12.10

674M /home/tecmint

3. To get the summary of a grand total disk usage size of an directory use the option “-s” as follows.

[root@tecmint]# du -sh /home/tecmint

674M /home/tecmint

4. Using “-a” flag with “du” command displays the disk usage of all the files and directories.

[root@tecmint]# du -a /home/tecmint

4 /home/tecmint/.bash\_logout

12 /home/tecmint/downloads/uploadprogress-1.0.3.1.tgz

24 /home/tecmint/downloads/Phpfiles-org.tar.bz2

40 /home/tecmint/downloads

12 /home/tecmint/uploadprogress-1.0.3.1.tgz

4 /home/tecmint/.mozilla/plugins

4 /home/tecmint/.mozilla/extensions

12 /home/tecmint/.mozilla

4 /home/tecmint/.bashrc

689108 /home/tecmint/Ubuntu-12.10/ubuntu-12.10-server-i386.iso

689112 /home/tecmint/Ubuntu-12.10

689360 /home/tecmint

5. Using “-a” flag along with “-h” displays disk usage of all files and folders in human readeable format. The below output is more easy to understand as it shows the files in Kilobytes, Megabytes etc.

[root@tecmint]# du -ah /home/tecmint

4.0K /home/tecmint/.bash\_logout

12K /home/tecmint/downloads/uploadprogress-1.0.3.1.tgz

24K /home/tecmint/downloads/Phpfiles-org.tar.bz2

40K /home/tecmint/downloads

12K /home/tecmint/uploadprogress-1.0.3.1.tgz

4.0K /home/tecmint/.mozilla/plugins

4.0K /home/tecmint/.mozilla/extensions

12K /home/tecmint/.mozilla

4.0K /home/tecmint/.bashrc

673M /home/tecmint/Ubuntu-12.10/ubuntu-12.10-server-i386.iso

673M /home/tecmint/Ubuntu-12.10

674M /home/tecmint

6. Find out the disk usage of a directory tree with its subtress in Kilobyte blcoks. Use the “-k” (displays size in 1024 bytes units).

[root@tecmint]# du -k /home/tecmint

40 /home/tecmint/downloads

4 /home/tecmint/.mozilla/plugins

4 /home/tecmint/.mozilla/extensions

12 /home/tecmint/.mozilla

12 /home/tecmint/.ssh

689112 /home/tecmint/Ubuntu-12.10

689360 /home/tecmint

7. To get the summary of disk usage of directory tree along with its subtrees in Megabytes (MB) only. Use the option “-mh” as follows. The “-m” flag counts the blocks in MB units and “-h” stands for human readable format.

[root@tecmint]# du -mh /home/tecmint

40K /home/tecmint/downloads

4.0K /home/tecmint/.mozilla/plugins

4.0K /home/tecmint/.mozilla/extensions

12K /home/tecmint/.mozilla

12K /home/tecmint/.ssh

673M /home/tecmint/Ubuntu-12.10

674M /home/tecmint

8. The “-c” flag provides a grand total usage disk space at the last line. If your directory taken 674MB space, then the last last two line of the output would be.

[root@tecmint]# du -ch /home/tecmint

40K /home/tecmint/downloads

4.0K /home/tecmint/.mozilla/plugins

4.0K /home/tecmint/.mozilla/extensions

12K /home/tecmint/.mozilla

12K /home/tecmint/.ssh

673M /home/tecmint/Ubuntu-12.10

674M /home/tecmint

674M total

9. The below command calculates and displays the disk usage of all files and directories, but excludes the files that matches given pattern. The below command excludes the “.txt” files while calculating the total size of diretory. So, this way you can exclude any file formats by using flag “-–exclude“. See the output there is no txt files entry.

[root@tecmint]# du -ah --exclude="\*.txt" /home/tecmint

4.0K /home/tecmint/.bash\_logout

12K /home/tecmint/downloads/uploadprogress-1.0.3.1.tgz

24K /home/tecmint/downloads/Phpfiles-org.tar.bz2

40K /home/tecmint/downloads

12K /home/tecmint/uploadprogress-1.0.3.1.tgz

4.0K /home/tecmint/.bash\_history

4.0K /home/tecmint/.bash\_profile

4.0K /home/tecmint/.mozilla/plugins

4.0K /home/tecmint/.mozilla/extensions

12K /home/tecmint/.mozilla

4.0K /home/tecmint/.bashrc

24K /home/tecmint/Phpfiles-org.tar.bz2

4.0K /home/tecmint/geoipupdate.sh

4.0K /home/tecmint/.zshrc

120K /home/tecmint/goaccess-0.4.2.tar.gz.1

673M /home/tecmint/Ubuntu-12.10/ubuntu-12.10-server-i386.iso

673M /home/tecmint/Ubuntu-12.10

674M /home/tecmint

10. Display the disk usage based on modification of time, use the flag “–time” as shown below.

[root@tecmint]# du -ha --time /home/tecmint

4.0K 2012-10-12 22:32 /home/tecmint/.bash\_logout

12K 2013-01-19 18:48 /home/tecmint/downloads/uploadprogress-1.0.3.1.tgz

24K 2013-01-19 18:48 /home/tecmint/downloads/Phpfiles-org.tar.bz2

40K 2013-01-19 18:48 /home/tecmint/downloads

12K 2013-01-19 18:32 /home/tecmint/uploadprogress-1.0.3.1.tgz

4.0K 2012-10-13 00:11 /home/tecmint/.bash\_history

4.0K 2012-10-12 22:32 /home/tecmint/.bash\_profile

0 2013-01-19 18:32 /home/tecmint/xyz.txt

0 2013-01-19 18:32 /home/tecmint/abc.txt

4.0K 2012-10-12 22:32 /home/tecmint/.mozilla/plugins

4.0K 2012-10-12 22:32 /home/tecmint/.mozilla/extensions

12K 2012-10-12 22:32 /home/tecmint/.mozilla

4.0K 2012-10-12 22:32 /home/tecmint/.bashrc

24K 2013-01-19 18:32 /home/tecmint/Phpfiles-org.tar.bz2

4.0K 2013-01-19 18:32 /home/tecmint/geoipupdate.sh

4.0K 2012-10-12 22:32 /home/tecmint/.zshrc

120K 2013-01-19 18:32 /home/tecmint/goaccess-0.4.2.tar.gz.1

673M 2013-01-19 18:51 /home/tecmint/Ubuntu-12.10/ubuntu-12.10-server-i386.iso

673M 2013-01-19 18:51 /home/tecmint/Ubuntu-12.10

674M 2013-01-19 18:52 /home/tecmint