



Marco Kurepa <marco.n.kurepa@gmail.com>

Error 4 on Cluster Beluga

Ali Kerrache via The Alliance Support <support@tech.alliancecan.ca>

Wed, Aug 2, 2023 at 11:09 AM

To: Marco Kurepa <marco.n.kurepa@gmail.com>

Cc: Hossein Fani <hfani@uwindsor.ca>

Dear Marco Kurepa,

There is a problem with the quota for your group:

```
[mkurepa@beluga1 ~]$ diskusage_report
      Description      Space      # of files
/home (user mkurepa)  157k/50G      13/500k
/scratch (user mkurepa)  25k/20T      1/1000k
/project (group mkurepa)  0/2048k      0/1025
/project (group def-hfani)  181G/1000G    503k/505k
```

Disk usage can be explored using the following commands:

```
diskusage_explorer /home/mkurepa (Last update: 2023-08-02 05:00:05)
diskusage_explorer /scratch/mkurepa (Last update: 2023-08-02 10:05:20)
diskusage_explorer /project/def-hfani (Last update: 2023-08-02 10:15:51)
diskusage_explorer /nearline/def-hfani (Last update: 2023-08-02 10:07:38)
```

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As shown on this line:

```
/project (group def-hfani) 181G/1000G 503k/505k
```

the project def-hfani has reached the limit of 0.5M file with only 180 GB of data. This is a sign that some members of the group have a large number of small files. Some clean-up is required.

I am including your sponsor since this issue concerns all the group.

You {and all members of your group} should go through your data and do some clean-up:

- * Delete any file that is no longer need.
- * Identify the directories with large number of small files and archive them {tar} to reduce the input footprint.
- * Consider using scratch for running jobs.
- * If your group use large number of files for running jobs, we recommend to create archives that can be unpacked directly to SLURM_TMPDIR when running jobs:

https://docs.alliancecan.ca/wiki/Handling_large_collections_of_files/en

From the command "diskusage_report", it shows another command:

```
diskusage_explorer /project/def-hfani
```

to scan the project and see who is using more space or more files:

https://docs.alliancecan.ca/wiki/Diskusage_Explorer/en

From a quick look, it seems that the user "Mohammad Hashemi; smh997" has 393 k files for only 42 GB of data. This is definitely the user to ask for cleaning their files.

Sincerely,

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8/2/23, 12:29 PM

Gmail - Error 4 on Cluster Beluga

Ali Kerrache

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Prairies: University of Manitoba

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<https://support.alliancecan.ca/otrs/customer.pl?Action=CustomerTicketZoom;TicketID=202711>