



University
of Manitoba



Digital Research
Alliance of Canada

OSC OpenOnDemand portal on Grex

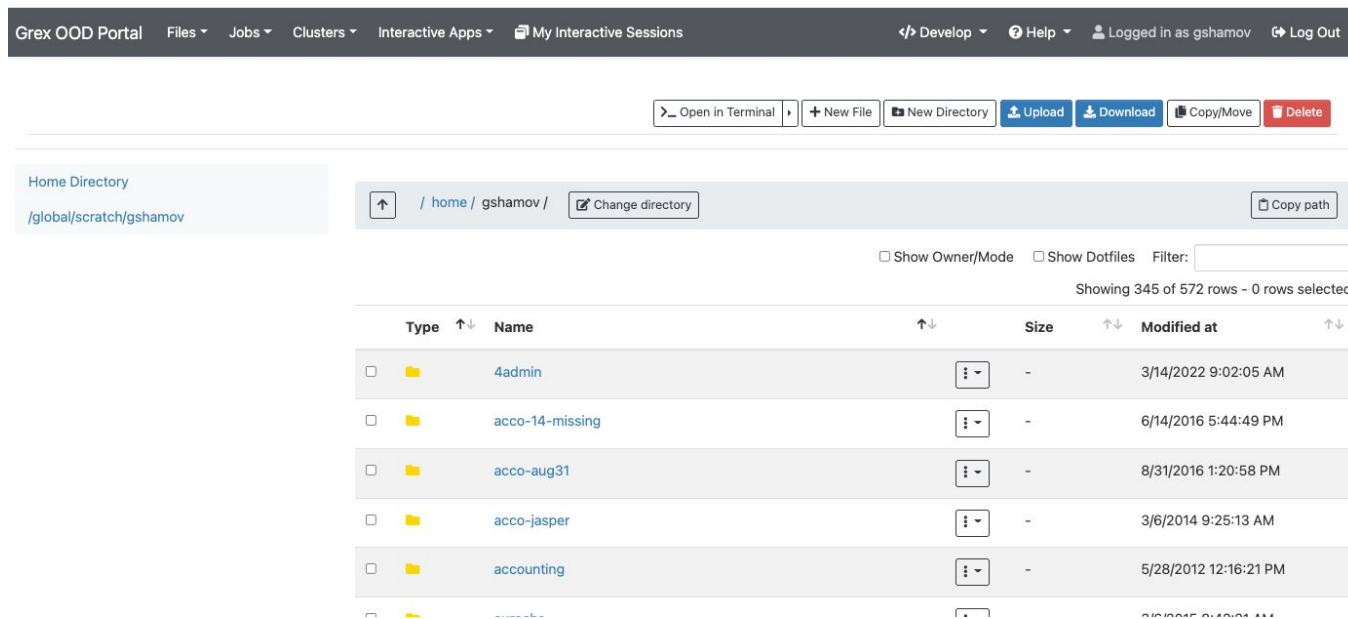
UofM-Spring-Workshop 2022

May 2022

Grigory Shamov

<https://aurochs.westgrid.ca> an HPC Web portal, that is, a browser UI for HPC systems

- File browser in browser



The screenshot shows the Grex OOD Portal interface. At the top, there is a navigation bar with links for 'Files', 'Jobs', 'Clusters', 'Interactive Apps', and 'My Interactive Sessions'. On the right side of the navigation bar, there are options for 'Develop', 'Help', 'Logged in as gshamov', and 'Log Out'. Below the navigation bar, there is a toolbar with buttons for 'Open in Terminal', 'New File', 'New Directory', 'Upload', 'Download', 'Copy/Move', and 'Delete'. The main content area displays the 'Home Directory' as '/global/scratch/gshamov'. The current directory is '/ home / gshamov /'. There is a 'Change directory' button and a 'Copy path' button. Below the directory path, there are checkboxes for 'Show Owner/Mode' and 'Show Dotfiles', and a 'Filter:' input field. The main content area shows a table of files and directories. The table has columns for 'Type', 'Name', 'Size', and 'Modified at'. The table contains several rows of files and directories, including '4admin', 'acco-14-missing', 'acco-aug31', 'acco-jasper', and 'accounting'.

Home Directory
/global/scratch/gshamov

↑ / home / gshamov / Change directory Copy path

Show Owner/Mode Show Dotfiles Filter:

Showing 345 of 572 rows - 0 rows selected

Type	Name	Size	Modified at
Folder	4admin	-	3/14/2022 9:02:05 AM
Folder	acco-14-missing	-	6/14/2016 5:44:49 PM
Folder	acco-aug31	-	8/31/2016 1:20:58 PM
Folder	acco-jasper	-	3/6/2014 9:25:13 AM
Folder	accounting	-	5/28/2012 12:16:21 PM


<https://aurochs.westgrid.ca> is an HPC Web portal, that is, a browser UI for HPC systems

- Browser for the jobs in queue
- Allows for submitting job scripts from Web browser too. (But Apps are better)

GreX OOD Portal Files ▾ Jobs ▾ Clusters ▾ Interactive Apps ▾ My Interactive Sessions </> Develop ▾ ? Help ▾ Logged in as gshamov ↶ Log Out

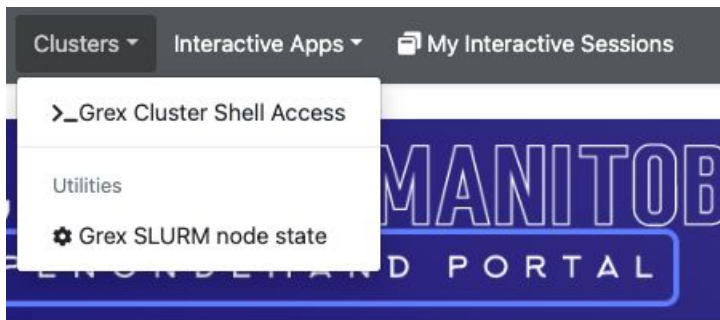
Active Jobs

Show entries Filter:

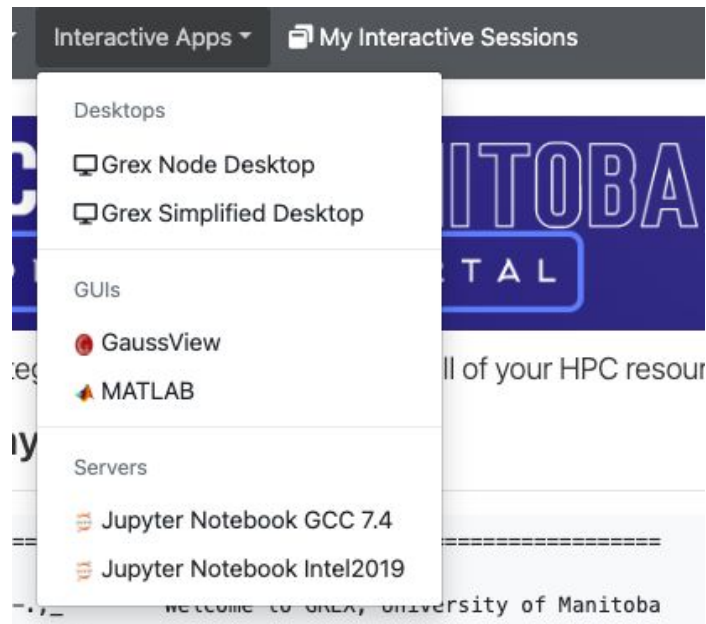
ID	Name	User	Account	Time Used	Queue	Status	Cluster	Actions
> 4945702	sys/dashboard/sys/jupyter_gcc	gshamov	def-gshamov	00:10:19	skylake	Running	GreX Cluster	

Showing 1 to 1 of 1 entries Previous **1** Next

- <https://aurochs.westgrid.ca/> is an HPC Web portal, that is, a browser UI for HPC systems
 - Simple SSH shell in-browser, on a login node is available
 - Desktops
 - on compute nodes (Lightweight GUIs like on X2go)
 - On special test node (Easiest, better GUIs)
 - Apps: GV, Matlab, Jupyter Notebooks



vides an integrated, single access point for all of your HPC r





- <https://aurochs.westgrid.ca> an HPC Web portal, that is, a browser UI for HPC systems
 - Apps and Desktops when ran, submit SLURM jobs
 - Jobs create Interactive Sessions when start.
 - Sessions talk to OOD Portal via NoVNC. You can connect to Sessions, terminate them etc.

Session was successfully created. ✕

[Home](#) / [My Interactive Sessions](#)

Interactive Apps

- Desktops
 - ☒ Grex Node Desktop
 - ☒ Grex Simplified Desktop
- GUIs
 - 🔴 GaussView
 - 🔴 MATLAB
- Servers
 - ☒ Jupyter Notebook GCC 7.4
 - ☒ Jupyter Notebook Intel2019

Jupyter Notebook GCC 7.4 (4945702) 1 node | 4 cores | Running

Host: n339 🗑 Delete

Created at: 2022-05-02 13:53:22 CDT

Time Remaining: 59 minutes

Session ID: e09060bc-4e15-48aa-b99b-a81ae849dac6

[👁 Connect to Jupyter](#)

- <https://aurochs.westgrid.ca/> gives a Bad Request message to the left:
 - Old Dex session it kept in browser cache; clean cache
 - Re-type aurochs.westgrid.ca w/o the session key parameter
- Timeout messages when loading Desktop Apps or starting jobs
 - Keep hitting Reload
 - Use “test” partition
- No /home and /global/scratch for new Grex users
 - Connect first time via command line SSH; a script creates them on first SSH login
- Inconvenient time limits for Desktop app
 - Contact us, we are now trying to optimize these things
- An App X would be useful to have on Grex
 - Contact us, we are working on expanding the list of Apps.

Bad Request

Login session expired.