Change Log

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May 18, 2022

- Added new GPUs: 4 NVIDIA A10 and 4 NVIDIA A30
- Added 2 new-generation compute nodes with faster CPU. Each node has 128 CPU threads and 1TB RAM.
- Upgraded Jupyter Hub to version 2.2.2
- Better logging so that Research Services staff can better troubleshoot support requests.
- We can now add new language version and instance type to IDAS without service downtime.

February 9, 2022

- Julia 1.7.1 is now available
- IDAS was prepared for future expansion
- General updates and bug fixes

December 27-30, 2021

- IDAS infrastructure has been migrated to new hardware, which will improve service stability.
- Linux system software has been updated to current versions.

August 11 - August 12, 2021

- R 4.1 is now available
- Julia 1.6 is now available
- Increased maximum RAM that can be requested to 512GB

January 6 - January 7, 2021

- Security updates
- Better error handling in the Server Options form
- Python 3.9 made available
- Jupyterhub updated to 1.3.0
- Jupyterlab updated to 2.2.9
- Jupyter Notebooks updated to 6.1.6

August 12 - August 13, 2020

- Python 3.7 and 3.8 are now available. Python 3.6 will remain an option.
- R 4.0.2 is now available. R 3.6.1 will remain an option.
- Julia 1.3.1, 1.4.2 and 1.5.0 are now available. Julia 1.2.0 will remain an option.
- 4 additional GPUs have been added.
June 26, 2020

- Resolve an issue that prevents users from connecting to dedicated LSS shares
- Users can now spawn an instance with RStudio directly.
  - Please select the RStudio option in the "Server Options" form:

  ![Image of IDAS Image]

- Users no longer need to source .bashrc every time they work with conda

April 1, 2020

- Instance memory limit will be raised to 256GB
- Julia users no longer need to specify depot paths
- You can now specify sub-directories of LSS shares when spawning an instance
- General updates and bug fixes

March 17, 2020

- RStudio Classroom has been moved to a multi-server environment. Sessions are now evenly distributed across all the nodes resulting in less resource contention.
- We have also doubled the amount of compute resources available to RStudio Classroom.

December 26, 2019

New features deployed on this date include:

1. **New Spawner form**

   A sneak peak of our new Spawner form is below.
# Spawner Options

**IDAS**  
Interactive Data Analytics Service

### CPU Cores

| 2 |

Total CPUs your notebook will have access to (e.g., 2). The number must be between 2 and 32.

### Memory Limit (GIB)

| 4 |

Total amount of RAM your notebook can consume (e.g., 4). This must be between 4 and 120.

### GPU

| None |

If you have GPU-enabled code, select which type of GPU your notebook will reserve. Note that if the specified GPU is unavailable, your notebook will be unable to start.

### Mount HPC Home

| No |

Checking this box will mount your HPC home to your IDAS instance in the hpc/home directory.

### LSS Shared

| /Shared/idas |

Enter the path of the LSS share you would like access to multiple shares can be entered with a comma separating the shares. These shares will be mounted in the LSS directory.

### LSS Dedicated

| /Dedicated/idas |

Enter the path of the LSS share you would like access to multiple shares can be entered with a comma separating the shares. These shares will be mounted in the LSS directory.

### IDAS Image

| IDAS-Python3.6 |

IDAS-GPU adds the specified CUDA runtimes for GPU use with the specified language

Make sure to select a GPU option above to get the best use out of GPU image.
Please note that Python, R, and Julia will each have its own container image. For example, to start a Julia instance, please select one of the three options for Julia under IDAS Image in the Spawner form.

![IDAS Image](image)

2. LSS and Argon Home access

Users will be able to access their Large Scale Storage (LSS) and Argon homes from IDAS.

![Mount HPC Home](image)

More information about Large Scale Storage can be found at https://its.uiowa.edu/lss

Documentation on the Cluster Systems can be found at https://wiki.uiowa.edu/display/hpcdocs/Cluster+Systems+Documentation

3. RStudio available for research use

RStudio will be available for research with this update. To start an RStudio instance, please select one of the three options for R under IDAS Image in the Spawner form.
Doing so will launch an R instance. In order to launch RStudio, click **New**, then select the **RStudio** option.

This will launch an RStudio session, which looks very similar to the local version of RStudio.
Please contact Giang Rudderham and Cody B. Johnson at research-computing@uiowa.edu with any questions or concerns.