Change Log

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- 3. RStudio available for research use

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:
- 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.

```
<table>
<thead>
<tr>
<th>IDAS Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDAS-RStudio-3.6.1</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
```
**Spawner Options**

**IDAS**
Interactive Data Analytics Service

- **CPU Cores**
  2
  Total CPUs your notebook will have access to (e.g. 4). The number must be between 2 and 32

- **Memory Limit (GIB)**
  4
  Total amount of RAM your notebook can consume (e.g. 8). 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 hpchome 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.

- **Spawn**
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.

### 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**
  - 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

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

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