



RCC eNewsletter

April 2024

Agenda for 2024 at the RCC

We are over a third of the way through 2024, and it feels like it has just begun! Here is a brief list of projects that the RCC is working on this year:

- finish the migration of Research Archival volumes to new Ceph platform
- add more GPUs to the High-Performance Computing (HPC) cluster
- implement liquid cooling in the Sliger Data Center
- perform ongoing software updates
- upgrade Open OnDemand to Version 3
- ongoing improvements to self-service portal
- continue to improve our Outreach and Education
- upgrade additional components of the InfiniBand infrastructure to 100Gbps

[See details »](#)

Introducing: HPC Drivers Ed

New to HPC? Our Software Team has you covered! Our collection of videos will help you learn all the material you need to safely and easily navigate the HPC cluster. At the end of the course, there is find a quiz which will verify you as a **Certified HPC user** on the HPC.

[Check it out »](#)

Update on liquid chilled compute nodes

In February, we announced that we would be receiving and deploying 28 liquid

chilled AMD Epyc 9454 48-core servers with 384 GB of RAM and 200Gbps InfiniBand networking to the HPC. All infrastructure prep work is complete, and our Systems Team is working on bringing these nodes into production by the end of April.

[Read more about this »](#)

Software Updates

We have been busy updating software on RCC resources. Below are some of the packages and libraries we have recently updated:

- [Open OnDemand has been upgraded to version 3 »](#)
- [RStudio 2023 is now available on Open OnDemand »](#)
- [CellRanger is now available on the HPC »](#)
- [GNU GCC v13.2 is now available on the HPC »](#)

[See our software catalog »](#)

Research Spotlight: Kevin Fosse

Dr. Kevin Fosse, an assistant professor in the Department of Physics, is studying low-energy nuclear physics. This research provides unique information on how nuclear forces keep atomic nuclei together to complement our knowledge of stable matter.

[Read the spotlight »](#)

Now available: FISH and ZSH shells

We have made the FISH and ZSH shells available on all of our nodes. ZSH is an enhanced version of BASH, and FISH is something different entirely. [This article](#) provides a good explanation of the relative strengths of each shell.

You can set FISH or ZSH as your default shell in our self-service web portal. Scroll down to "System Account" and click on the "Change Shell" link.

[Try it out »](#)

Sustainable Green Team Updates

On Feb. 24, the Sustainable Green Team attended the RIDER Center's 2024 Open House.

[See the photos »](#)

On March 19, the team presented "Reduce, Reuse & Recycle" to 60 pre-school students at the Learning Pavilion.

[See the photo »](#)

The RIDER Center has produced a public service announcement in which the team participated last November.

[Watch the PSA »](#)

Questions? We're here to help. Contact the ITS Service Desk at 850-644-4357 or help.fsu.edu.



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