

Research Computing

Research Computing (RC) is a support team at the University of Virginia whose mission is to empower researchers to achieve more through the use of cutting-edge computational resources.

We strive to create innovative solutions for researchers who need help solving complex optimization, parallelization, workflow, and data analysis issues. Our strategy is to build and maintain the University's best computing platforms while educating the next generation of researchers on the power and utility of advanced computing.

RC can help you find the right system for your computational workloads. From supercomputers to HIPAA-secure systems to cloud-based deployments with advanced infrastructure, various systems are available to UVA researchers.

<https://rc.virginia.edu/>

Systems We Manage Include:

Rivanna: A traditional high-performance cluster with job scheduler, large file system, modules, and MPI processing.

Ivy: A multi-platform, HIPAA-compliant system for secure data that includes dedicated virtual machines (Linux and Windows) and Apache Spark.

Cloud Solutions: RC works alongside researchers to design and run research applications and datasets into Amazon Web Services. Cloud-based computing solutions are also available in our local cloud environment, *Skyline*. This service provides options for quick deployments, short-term lifecycles, and unique requirements such as GPUs or clusters.

Container Services: We are now running DC/OS, a platform designed for running fleets of containers independently of one another. This includes web applications, databases, specialized tools, and other solutions in support of HPC jobs.

UVA Development Hub

An opportunity for all members of our community to collaborate on applications and solutions that benefit UVA. Find help here to create a new App or push your App to a new level!

<https://devhub.virginia.edu/>

Digital Humanities at UVA (DH@UVA)

DH@UVA is a networked, partially crowdsourced website that offers a single point of entry to the digital humanities organizations, people, projects, and events at UVA.

<http://dh.virginia.edu/>

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Let us help you with your next
computational research project!

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Office of the Vice Provost for Academic
Technology Website

<https://vpit.virginia.edu>