

Research Computing

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ITS Research Computing

The central research computing team offers several options for large-scale computing needs. You can find more information and reach out directly to that team at <https://researchcomputing.syr.edu>.

- Grid computing (14,000+ cores, 20TB RAM available)
- High-performance and High-throughput computing clusters (25,000+ cores, 100TB+ RAM available)
- GPU-enabled nodes (CUDA and OpenGL support)

iSchool-hosted platforms

We currently offer the following services which we will set up and host for you. By default, they will be limited to SU users with a netid and external access will be limited to SU VPN users. Other scenarios will be considered on a case-by-case basis. Requests: ischoolit@ot.syr.edu

- RStudio Server
- JupyterHub

Custom Virtual Machines

For small to medium-sized research efforts, researchers may request individual Windows or Linux virtual machines hosted in a SU datacenter. To make a request, please contact Technology Services using the following form: https://syracuseuniversity.qualtrics.com/jfe/form/SV_79Y0cdCVrtQnh4N

	Windows	Linux
OS options	Windows 10, Windows Server	Ubuntu Server LTS
Access method	RDP	SSH (command-line only; GUI not supported)
Max storage allocation	15 TB	15 TB
CPU	Up to 28 vCPU	Up to 28 vCPU
RAM	Based on resource pool availability and project requirements; grid options listed above should be considered for large RAM requirements (128GB+)	"

- iSchool Tech Services will provision the VM for you, and will be responsible for the infrastructure (networking, storage, VM snapshot backup/restoration)
- Users are generally responsible for the installation and maintenance of custom applications
- Systems/services exposed on the public network are subject to routine vulnerability scans; users are expected to mitigate any detected vulnerabilities in custom applications.
- By default, VM's are hosted on an internal, private network. Services are exposed to the internet as needed via Nginx reverse proxy
- Domain names and SSL certs can be provided by Tech Services upon request

Research data storage

For small to medium size datasets (<5TB) we can provision storage space for you on the 'IST-Fileer' workspace, which is an extension of the 'G' drive. Requests: ischoolit@ot.syr.edu

- Accessible from all SU-managed clients and servers
- Routine backups