Information Security at UVM

for New Faculty Orientation 2024

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Information Security at UVM

What are we protecting? From what/whom?

Who's responsible?

Why is this necessary?

When do I get in touch? And how?

Common Questions

What are we protecting?
From what/whom?

each other / students / research subjects / community

People.

What are the threats?

Phishing/Credential Theft

Ransomware

IT Services

Who is responsible?

Why is this necessary?

Who are the threats?

When do I get in touch? And how?

iso@uvm.edu

https://go.uvm.edu/infosec

Information Security Policy

https://go.uvm.edu/isp

Privacy Policy

https://go.uvm.edu/privacypolicy

ETS Service Catalog

https://go.uvm.edu/etssc

Common Questions

Should I keep my own backups of my data?

Can my lab use _____ to share data?

qualtrics

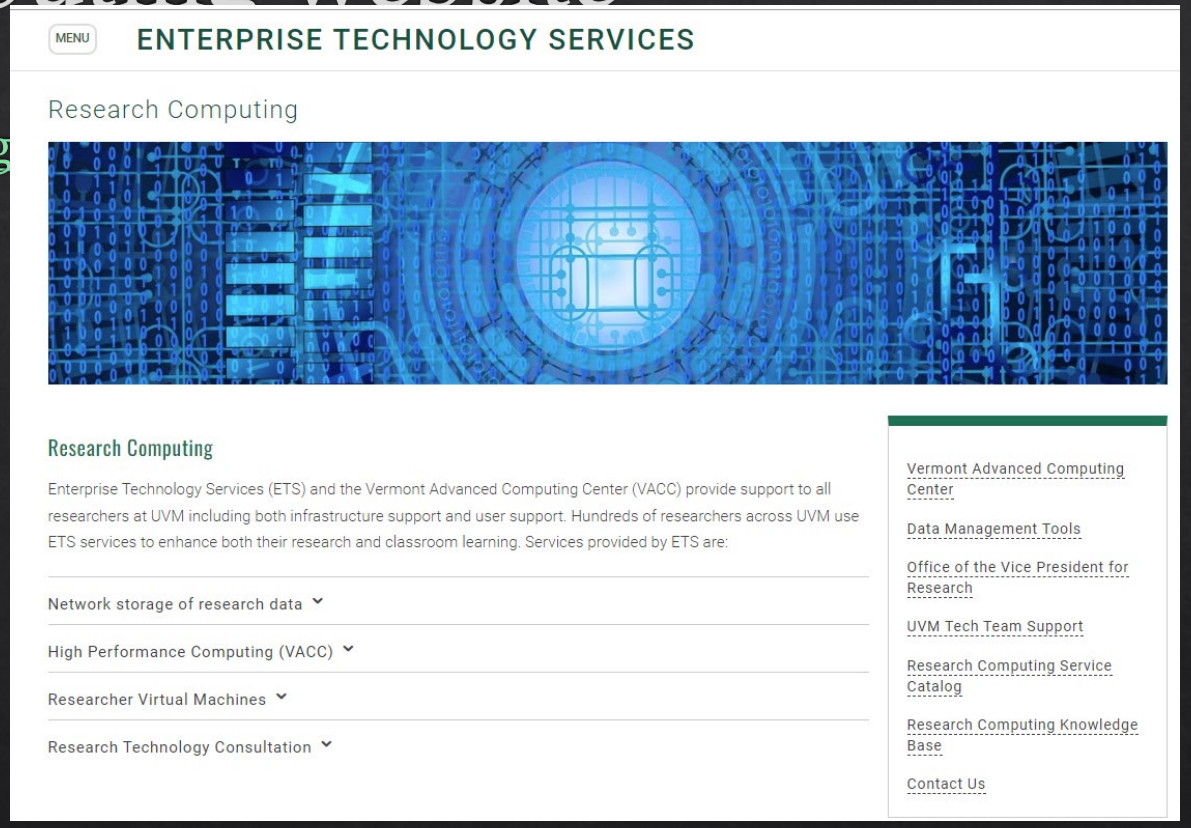
Can my group use _____ to collect study data?

qualtrics

Can I use _____ for remote instruction instead?

Research Computing website

- https://www.uvm.edu/it/research-computing
- Overview of research computing services
- Useful links for support
- Contact Us form to request help



Vermont Advanced Computing Center (VACC)

- https://www.uvm.edu/vacc/
  - BlueMoon – 200 CPU nodes, 8840 CPU cores, multi-TB RAM nodes, MPI
    - 4 NVIDIA A100 GPUS, 8 NVIDIA H100 GPUS
  - DeepGreen – 80 NVIDIA V100 GPUs
  - BlackDiamond – 48 AMD Radeon M150 GPUs
  - DataMountain - Large memory cluster 64TB RAM, sharded MongoDB cluster
- 3 tiers of access, first tier is free. Higher tiers include more compute and storage
- 194 PIs, 610 users from 8 colleges, and 5 VT academic institutions

Network Storage

- UVM Netfiles – multi-PB storage solution for researchers
  - 10TB for free for faculty, can self-provision
    - Scalable for modest cost. Some PIs have hundreds of TBs
  - Daily backups for 30 days, replicated between multiple datacenters
  - Can be accessed from your laptop, virtual machines, and the VACC
  - Easy to share with others at UVM. Easy to share with external collaborators with Globus

- Globus – allows large-scale data transfers between UVM systems and external research organizations
  - Can currently be used with Netfiles, VACC, and OneDrive at UVM
  - Also supports sharing of data with external collaborators

Virtual Machines (VMs)

- Dedicated Research VM hosting (UVM's secure internal cloud)
- One free VM available to all PIs (12 CPU cores, 48 GB RAM, 100 GB NVMe storage)
  - Can grow for modest cost
- GPU access available
- Great alternative to dedicated physical hardware

Consultation & Facilitation Services

- Free consultation for general research needs
- Free general onboarding for VACC
- HPC Facilitator – available for large-scale onboarding for more complex setups at a cost
- Weekly virtual office hours