

# 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?



box

Can my lab use \_\_\_\_\_ to share  
data?





# qualtrics

Can my group use \_\_\_\_\_ to  
collect study data?



# qualtrics®



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Can I use \_\_\_\_\_ for remote  
instruction instead?



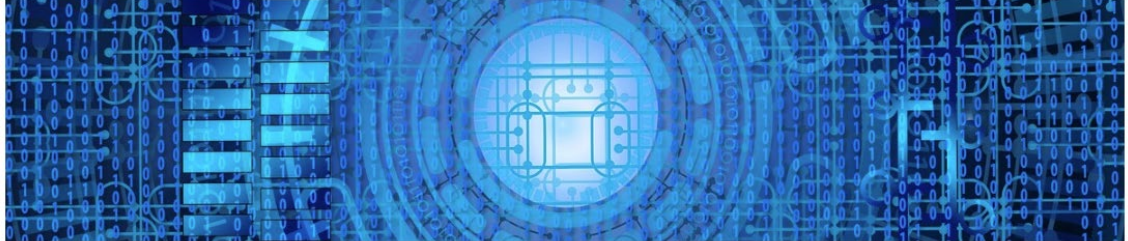


# Research Computing website

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

[MENU](#) **ENTERPRISE TECHNOLOGY SERVICES**

Research Computing



**Research Computing**

Enterprise Technology Services (ETS) and the Vermont Advanced Computing Center (VACC) provide support to all researchers at UVM including both infrastructure support and user support. Hundreds of researchers across UVM use ETS services to enhance both their research and classroom learning. Services provided by ETS are:

- Network storage of research data ▼
- High Performance Computing (VACC) ▼
- Researcher Virtual Machines ▼
- Research Technology Consultation ▼

- [Vermont Advanced Computing Center](#)
- [Data Management Tools](#)
- [Office of the Vice President for Research](#)
- [UVM Tech Team Support](#)
- [Research Computing Service Catalog](#)
- [Research Computing Knowledge Base](#)
- [Contact Us](#)



# 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