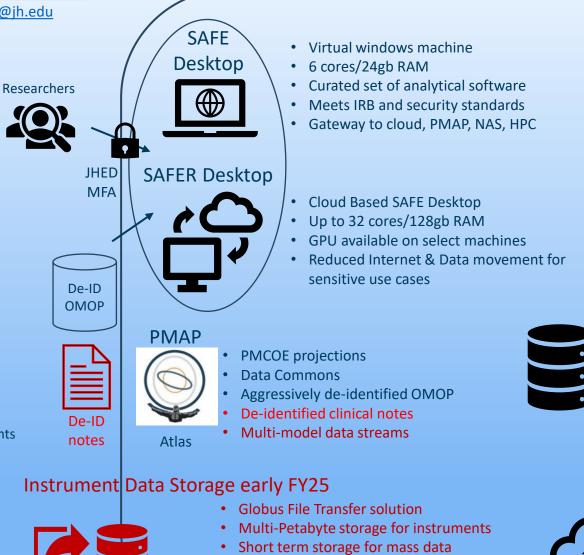


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Secure Research Infrastructure (NIST 800-171 Target CY 2024)





DISCOVERY **Research HPC** 

- Current: 138 nodes with 9,248 cores, 307K GPU CUDA cores, 38K Tensor Cores, 87TB RAM
- Summer 2024 16 H100 GPU Nodes (64 GPUs), On demand cloud GPU Nodes
- 11 Weka Storage Nodes 5.3PB NVME storage
- Bright cluster manager with SLURM scheduler and **OnDemand Server**
- 100 gig network, sub ms latency to campus networks
- Secure for PHI and key cyber protections
- Free tier allocations, nominal charges for larger/ongoing use

## **SAFESTOR - Research Storage**

- Current 6PB Total Storage
- 1-10TB per project free tier
- Up to 100TB per project at \$6/TB/mo
- 100gig network, sub ms latency
- 3-7 year active storage
- Cloud Archive for long term storage
- Ransomware protection, NIH/NSF Policy Compliance

## **Cloud Based**

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- Compute/PaaS
- Azure Blob Storage, Databricks, PaaS
- Accessible via SAFE and SAFER

Project specific cloud resources

Dedicated GPU/CPU machines

**OpenAl API Access** 

- 2x100gig high speed network
- <3ms latency to cloud network
- Core cyber protections managed by RIT
- Azure and AWS are PHI complaint

**Digital Instruments** 





- Microscopes
- Sequencers
- Video Capture
- Other digital acquisition

