

Gaining Momentum

Getting to know Division of Information Technology Units

September 10, 2025



Advanced Research Computing

Resources

Compute clusters and data storage

Visualization

Consulting

Support and training

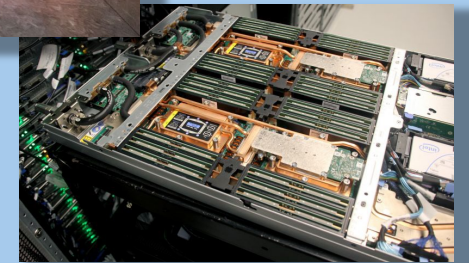
Key Points

No cost resources for research

Available to all VT faculty

Use our hosted LLMs or BYO

Easy to get started!



Cluster	Nodes	CPUs	GPUs	Purpose
TinkerCliffs	353	44,224	168	CPU and GPU flagship
Owl	91	8,704	-	Water-cooled, Fast AMD CPUs
Falcon	111	4,896	307	Mid-range NVIDIA GPUs
CUI	8	512	16	DoD and ITAR projects
Biomed	7	448	8	NIH and NIST 800-171 projects
Total	570	58,784	499	



IT Governance, Planning & Strategy

- **New Unit within the Division of IT led by AVP Kyle Johnson**
- **Responsible for:**
 - IT Governance and the IT Strategic Plan
 - IT PMO
 - Architecture (Enterprise, Business, Technical, AI)
 - IT Policies and Standards
- **Some current activities:**
 - Program Management and Organizational Change Management for the ERP Modernization program
 - Refining Intake, Lifecycle and Reporting processes for IT projects
 - Capturing and documenting SIS business and technical processes to ensure alignment
 - Updating IT policies based on a recent comprehensive review



Enterprise Solutions and Enabling Technology (ESET)

- **What is ESET?**
 - Former Enterprise Systems teams plus Collaborative Computing Solutions, IT Learning Systems, Service Now, and Common Platform teams
- **What are some important initiatives for Enterprise Solutions and Enabling Technology?**
 - Student Information System (SIS) migration to SaaS
 - Storage changes and backup solutions
 - Implementing cloud-based data solutions (example SnowFlake)
 - Supporting Advancement's march to \$300 M / yr and reviewing Blackbaud cloud
 - Migration to Platform Analytics and expansion of CMDB population
 - GIS ETL Workflow, Archival Repository, and Emergency Management Tool
 - Archiving Canvas courses
 - Supporting migration to IT Common Platform and assisting other teams
 - Wrapping up transition from TimeClock Plus to Banner Time Entry



Network Infrastructure and Services (NI&S)

- Provide and manage the university's data, voice, and video networks and related services.
- Interesting projects include:
 - Campus EVPN building connectivity
 - Client VPN upgrade
 - EAP-TLS – Certificate Authentication (Wireless, VPN)
 - WAN – Atlanta Diversity
 - Atlas Application Suite Enhancements
 - Stroubles Creek/CBRS



IT Security and Identity

- Consolidates security-related functions within the Division of IT
 - IT Security Office
 - Secure Identity Services
 - Virginia Cyber Range
- Responsible for:
 - Campus-wide cybersecurity program, policies, and operations
 - Digital identities and access management for VT systems
 - Infrastructure and other resources for cybersecurity education in Virginia (Virginia Cyber Range) and beyond (U.S. Cyber Range)



Office of the CIO (OCIO)

- Support the Vice President for Information Technology & CIO and the Operations of the Division
- Responsibilities include:
 - Administrative Support
 - Communications
 - Finance and Business Operations
 - Human Resources
 - Software Service Center



User Engagement and Experience

- What is UEE?
- Interesting UEE initiatives and projects:
 - Supporting evolution of existing and new partnerships
 - 4Help User Experience improvements
 - User Experience design initiatives
 - Knowledge Process overhaul project
 - Evolution of Division of IT support model



Areas of Intersection and Q/A

