

# Wright Laboratory Computing Overview

# On-premises Computing

- Linux servers associated with specific groups and collaboration teams
- Workstations in laboratories
- Personal devices

# Yale Center for Research Computing

- The YCRC is an independent center that manages and maintains HPC systems for high throughput parallel processing
- Many of the WL research community will use the Grace cluster, which is distributed over >900 nodes with access to >4 PB parallel storage
- Accounts are available to all researchers. Please contact me for more information.

# Yale University ITS Access to Public Cloud Platforms

- Integration with university identity--CAS/Shibboleth or Microsoft Azure AD
- Enterprise agreement and business agreement backing
- Private network connections from on-premises networks to cloud virtualnetworks
- Access to platform services such as machine learning, hpc, cognitive services
- Support for the three primary public clouds

# Data Storage

- Local network accessible storage
- Storage@Yale tiered storage
- Google Shared Drives
- Cloud based object storage

# File Transfer Services

- Globus
  - Inter-institutional and intra-institutional file transfer
  - Identity based
  - Support for scheduled background
- `rsync` processes over Yale networks
- Currently evaluating Rucio Data and Storage Management

# Communication and Collaboration Platforms

- Slack
- Zoom
- EliApps (Google)
- Github
- Indico
- eLog
- DocDB
- Moin Wiki

# Workshops

- Introduction to Yale Spinup-Service and Cloud Computing
- Introduction to Git Workflow and Github
- Containerized Workloads with Docker and Podman
- Introduction to Cloud-based Data Analysis



# Support

- General computing support
- Hardware recommendations
- Assistance in obtaining Yale ITS support whenever appropriate
- Assistance with HPC through the YCRC
- Identity and access to computing resources
- Software installation and configuration

# Contact

- Electronically
  - The [help-wlab@elilists.yale.edu](mailto:help-wlab@elilists.yale.edu) distribution list
  - The `#computing` Slack channel in [wrightlab.slack.com](https://wrightlab.slack.com)
- In person at WL-235