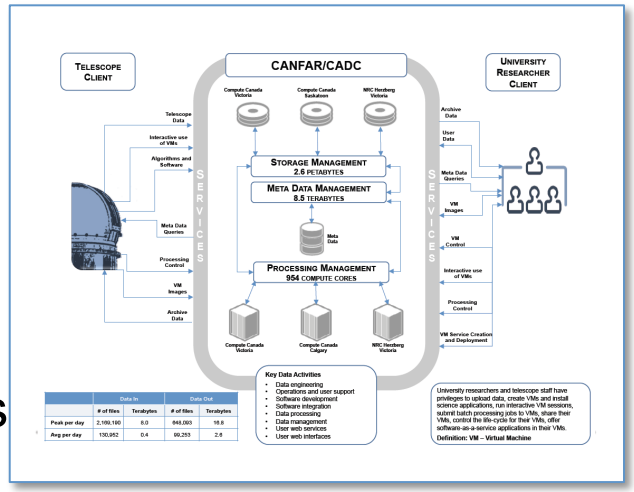
CANFAR

Canadian Advanced Network for Astronomical Research

CANFAR delivers an integrated suite of services that support the needs of data-intensive astronomy



- Research Data Management
- User-managed storage
- Cloud Processing
- Specialized visualization and analytics services
- Authentication and Authorization
- Support to researchers in adapting the system to their needs

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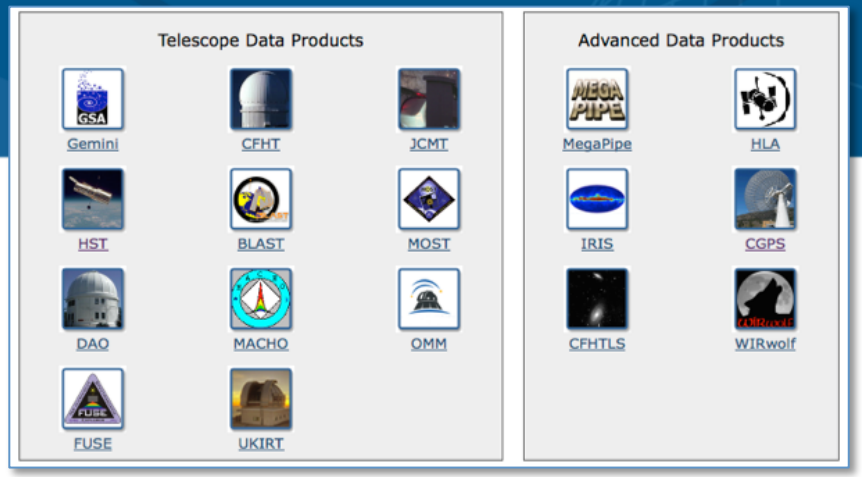
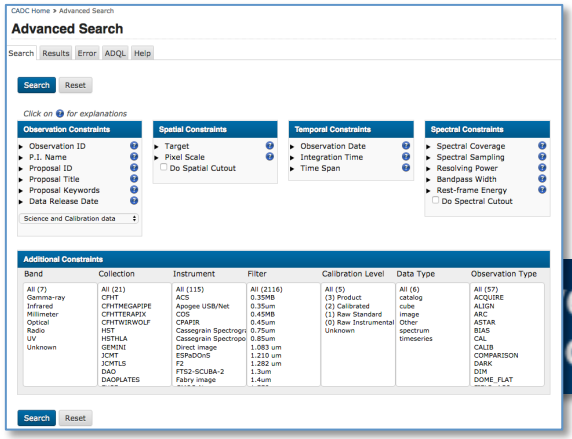


Research Data Management:

CANFAR delivers:

- Access to data: CFHT, JCMT, HST, Gemini, ++++
- Access to Advanced data collections: MegaPipe, HLA, CGPS, ++++
- An integrated discovery and access interface
- Virtual Observatory protocols



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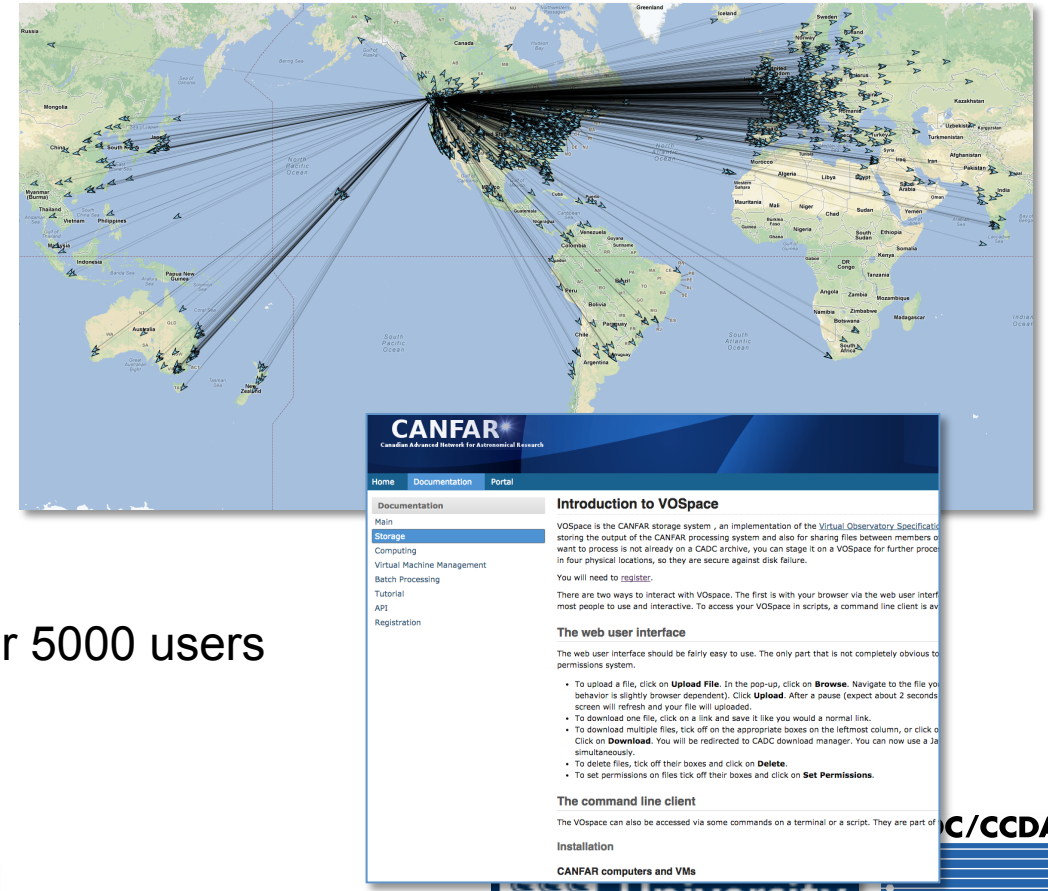
User-managed storage

http://www.canfar.net/docs/vospace/



CANFAR VOSpace:

- 180 VOSpace owners
- 312 Terabytes allocated
- 133 Terabytes used
- Moved over 1 PB in 2015 to over 5000 users

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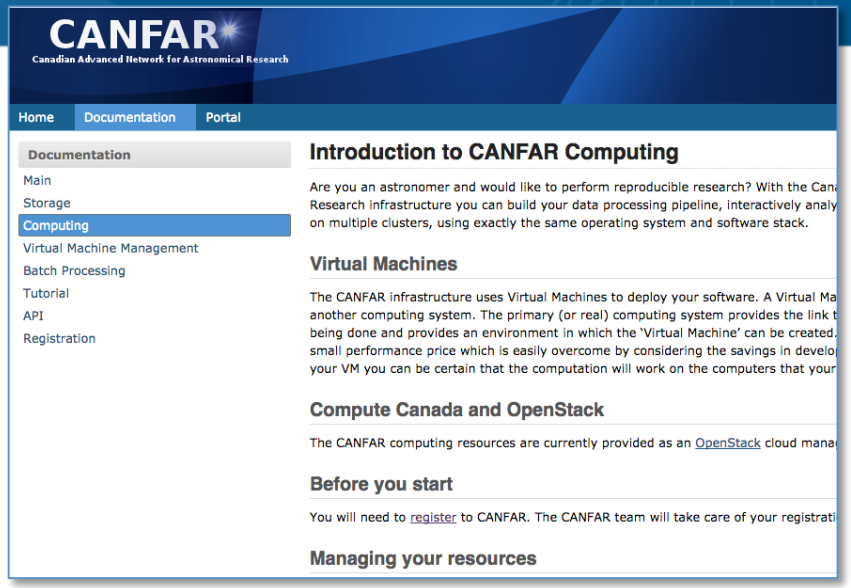

Cloud Processing

http://www.canfar.net/docs/compute/

CANFAR delivers:

- Up to 1000 cores, high-RAM
- User-configured virtual environments
- Interactive & persistent VM's
- Batch processing

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Authentication & Authorization

CANFAR supplies A&A services that glue together the component services into an integrated cloud ecosystem

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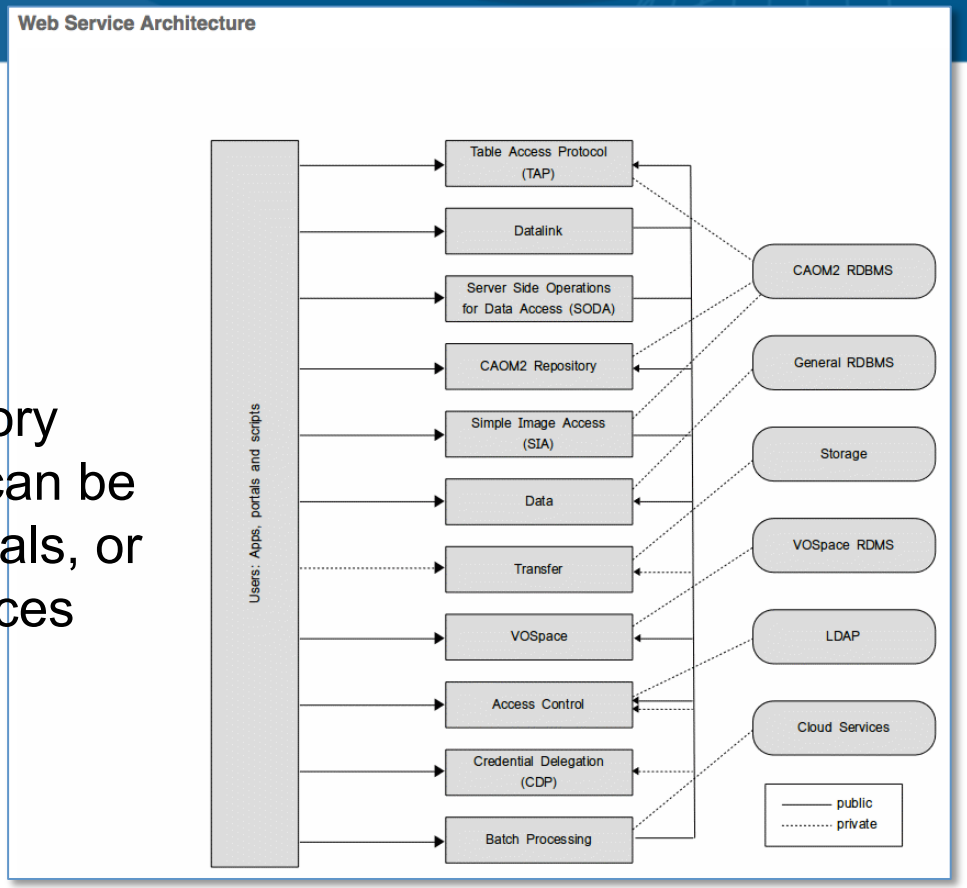
Web services APIs for power users

CANFAR supplies Virtual Observatory compliant web service APIs that can be used directly by applications, portals, or user scripts to configure the services into a customized workflow.



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