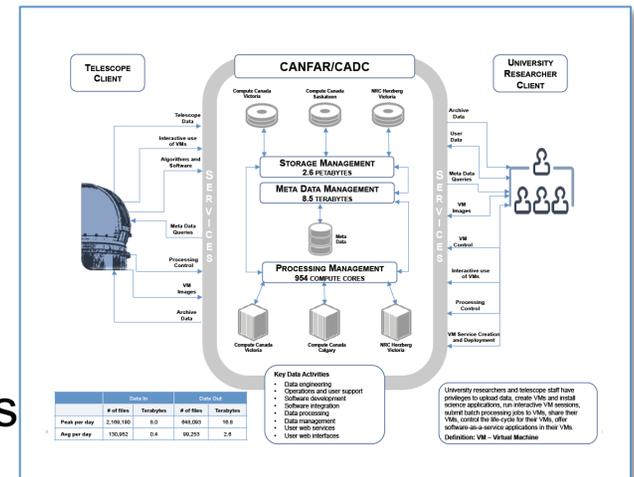


CANFAR

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

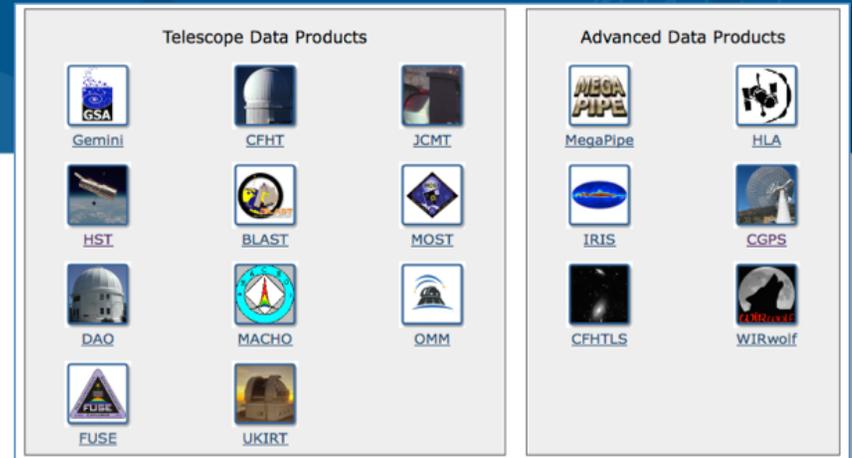


ARC-CCRC Canada

CANFAR

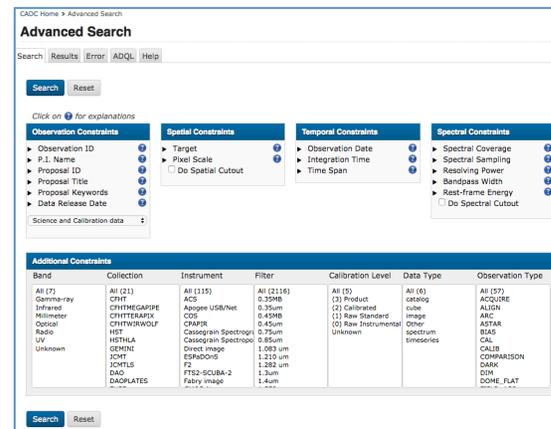
Canadian Advanced Network for Astronomical Research

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



ARC-CRRC Canada

CANFAR

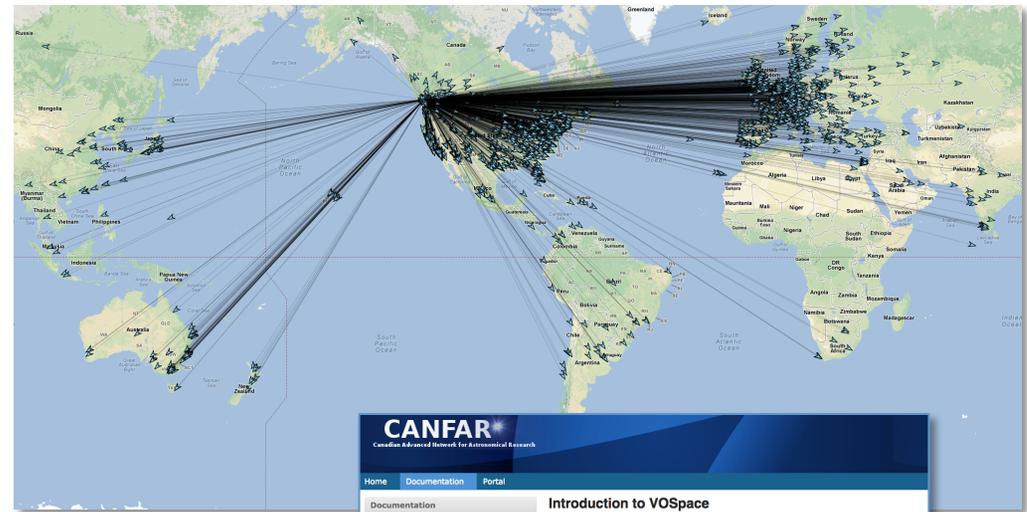
Canadian Advanced Network for Astronomical Research

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



A screenshot of the CANFAR VOSpace website. The page has a blue header with the CANFAR logo and navigation tabs for Home, Documentation, and Portal. A sidebar on the left lists menu items: Documentation, Main, Storage, Computing, Virtual Machine Management, Batch Processing, Tutorial, API, and Registration. The main content area is titled "Introduction to VOSpace" and contains text explaining the system's purpose and user instructions. The text includes sections for "The web user interface" and "The command line client".



CANFAR

Canadian Advanced Network for Astronomical Research

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

The screenshot shows the CANFAR website's documentation page. The header includes the CANFAR logo and navigation tabs for Home, Documentation, and Portal. A sidebar menu lists various documentation topics, with 'Computing' selected. The main content area is titled 'Introduction to CANFAR Computing' and contains sections for 'Virtual Machines', 'Compute Canada and OpenStack', 'Before you start', and 'Managing your resources'. The text describes the infrastructure's use of virtual machines and OpenStack for providing computing resources to astronomers.



CANFAR

Canadian Advanced Network for Astronomical Research

Authentication & Authorization

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



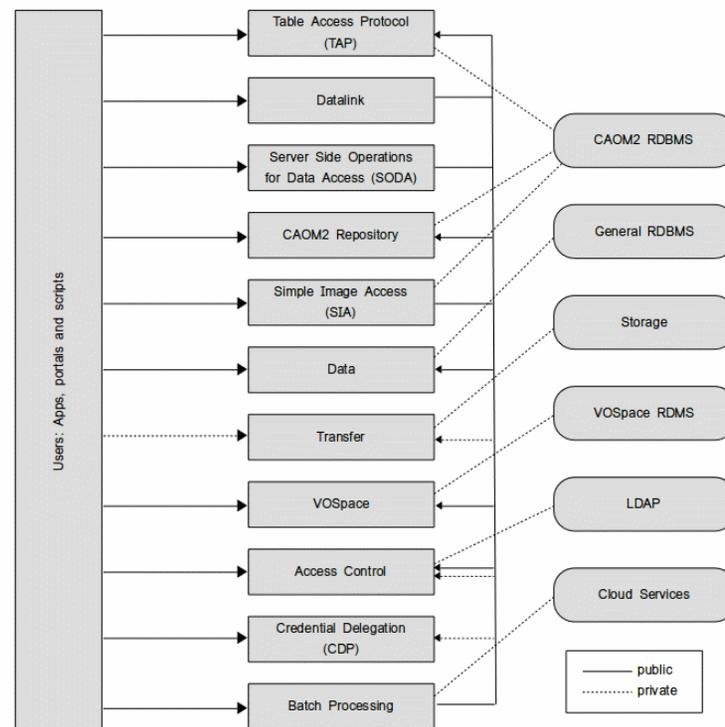
CANFAR

Canadian Advanced Network for Astronomical Research

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.

Web Service Architecture



compute canada | calcul canada



canarie



CADC/CCDA



ARC-CRRC Canada