

Getting Started on DTN/DTN2/DTN HA

Introduction

The Data Transfer Node (**DTN**) (Rice CRC Data Transfer Node) at Rice facilitates the movement of data into and out of the "/work" shared filesystem available for DAVinCI and NOTS. Scratch filesystem available for DAVinCI "/dascratch".

DTN2 (Rice CRC Data Transfer Node 2) facilitates the movement of data into and out of PowerOmics for "/poscratch".

Rice University CRC DTN HA facilitates the movement of data into and out of the "/scratch" and "/projects" shared filesystems available for NOTS. It also provides access to create a collection using your Rice Google Drive account as an endpoint allowing you to transfer data between your Rice Google Drive account and other Globus endpoints.



How to Access DTN HA Collections

Visit and search for "Rice University CRC DTN HA"

Follow the Globus documentation to get setup.

Create a guest collection via a POSIX storage gateway

How to Access your Google Drive with Globus

The nodes provide massively parallel file transfers to facilitate moving large data sets efficiently. You will be able to move data between participating institutions available via Globus including between DTN, DTN2, DTN HA. Additionally, if you install and configure the [Globus Connect](#) software you will be able to transfer files using your local computer as an Endpoint.

Prerequisite for Using This System

You must have a cluster account.

Your Rice netID must be registered with Globus.org.

You must read the relevant quick start guides on <https://docs.globus.org/>

Using Globus to transfer files

You will utilize the Endpoints named: rice#dtn for "/work", "/dascratch", rice#dtn2 for "poscratch".

Your Path destination or source will be in either the "/work" shared filesystem available only on DAVinCI or "scratch" shared filesystems available on DAVinCI, and PowerOmics. Minimally to receive or send data you will need to pick a subdirectory with which you have read and write access. For "/work" this will be a subdirectory you create under your sponsor's netID directory within "/work". When using the respective "scratch" directory use a subdirectory you have created. Use "/" for your Path to see all of the filesystems currently available.



To utilize your netID credentials with globus please do the following:

1. Go to <https://www.globus.org/SignUp>, choose "Rice University" as the organization, and log in with your Rice netID.
2. If you already have a Globus account you can choose to link your Rice identity with an existing account.
3. If this is your first time using Globus, choose continue to create a new account.



The DTN/DTN2 nodes have 10Gb/s network connections with jumbo frames enabled. DTN HA has a 40Gb/s network connection with jumbo frames enabled. A transfer to similarly configured Internet2 Endpoints will take advantage of these capabilities.