

# How to Use **data2passcal** to Send Data to PASSCAL

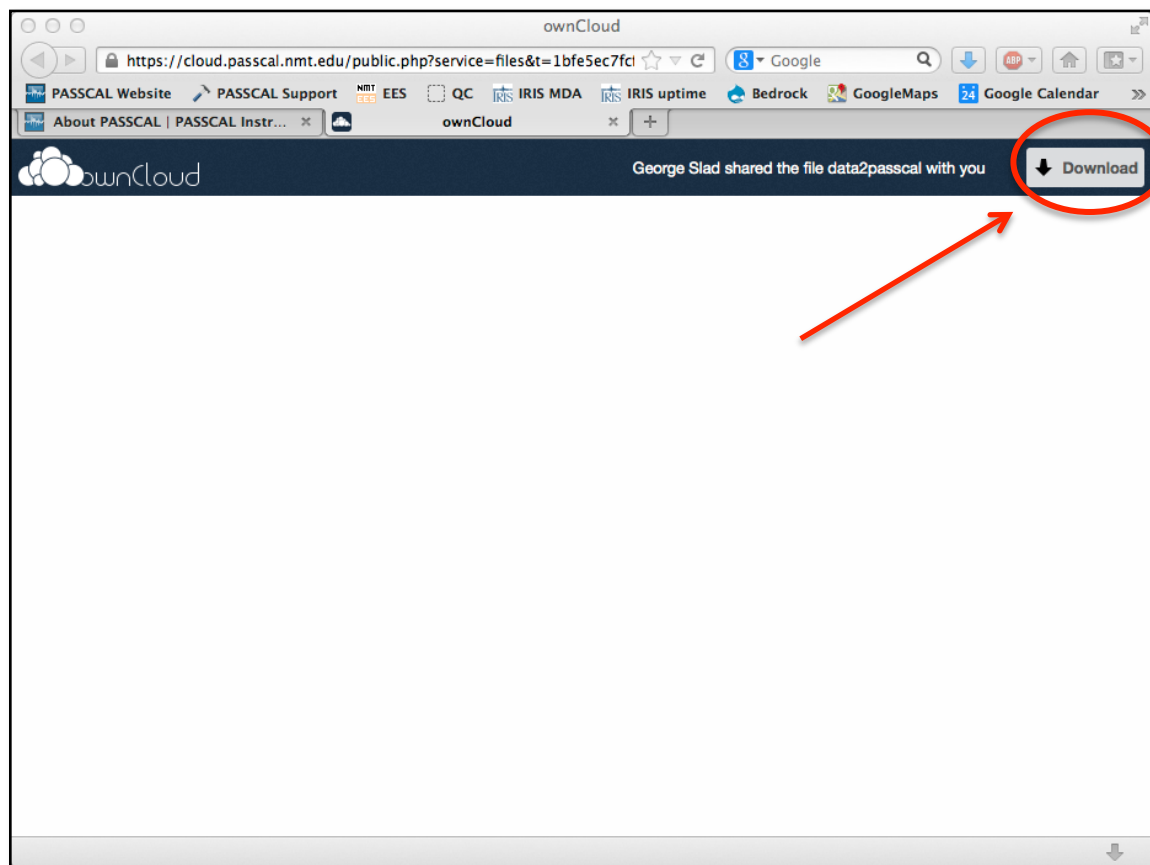
---

The latest tool to send your data to PASSCAL is a program called **data2passcal**. This program supersedes all other methods and programs previously used to send data to the PASSCAL facility.

**data2passcal** can be downloaded from the PASSCAL Cloud at the following URL.

<https://cloud.passcal.nmt.edu/public.php?service=files&t=1bfe5ec7fcf6d1fbe23aa418718d6bd2>

Simply click on the Download button circled in red on the figure below and the program will automatically download. Install the program in you /opt/passcal/bin directory.



This program will take all the miniseed files in a specified directory and send them to PASSCAL via ftp. Simply enter **data2passcal** <directory name> and the ftp process begins also recording the data transfer to a file conveniently named data2passcal.log. An example of the log output is shown below.

```

[GCC 4.2.1 (Apple Inc. build 5664)]
2014-02-27 10:00:46 -0700 - DEBUG - CWD: /Test/SVC1/MSEED/day_volumes
2014-02-27 10:00:46 -0700 - INFO - Version: 2014.008
2014-02-27 10:00:46 -0700 - INFO - Scanning: /Test/SVC1/MSEED/day_volumes/XX01
2014-02-27 10:00:46 -0700 - INFO - Total Size = 944.191 MB
2014-02-27 10:00:46 -0700 - INFO - Total Files = 252
2014-02-27 10:00:46 -0700 - INFO - Total Dirs = 0
2014-02-27 10:00:46 -0700 - INFO - Scan time = 0.01s
2014-02-27 10:00:50 -0700 - INFO - MiniSEED files: 252
2014-02-27 10:00:50 -0700 - INFO - Other files: 0
2014-02-27 10:00:50 -0700 - INFO - Removing files already sent to PASSCAL
2014-02-27 10:00:50 -0700 - INFO - 0 miniSEED files have already been sent, not
resending.
2014-02-27 10:00:50 -0700 - INFO - Sending MSEED files to PASSCAL
2014-02-27 10:00:50 -0700 - INFO - Sending 252, 944.191 MB files to PASSCAL
2014-02-27 10:00:50 -0700 - INFO - Connecting to FTP host qc.passcal.nmt.edu from
129.138.26.58. Attempt 1 of 10080
2014-02-27 10:00:50 -0700 - INFO - Success: Connected to PASSCAL FTP
2014-02-27 10:00:51 -0700 - ERROR - Failed to send file N24I.ZL.BHE.2012.292.
2014-02-27 10:00:51 -0700 - ERROR - [Errno 35] Resource temporarily unavailable
2014-02-27 10:01:21 -0700 - INFO - Connecting to FTP host qc.passcal.nmt.edu from
129.138.26.58. Attempt 1 of 10080
2014-02-27 10:01:21 -0700 - INFO - Success: Connected to PASSCAL FTP
;

```

The program also conveniently filters out any files that are not in miniseed format. If the process is, for some reason interrupted, **data2passcal** simply picks up where it left off when the connection is reestablished. And, if you should need to stop the process for any reason with a ctrl-C, the process will shut down cleanly.

Type **data2passcal -h** for a complete description of program usage.