Globus Technical Catch-Up

References: 14 March 2025 10:30-11:30am AEDT

Questions

Our organisation still has a requirement transferring data via the FTP/SFTP protocol, such as for research devices out in the field. Are there capabilities for using Globus to replace on-premise FTP servers and managing accounts?

Yes. An endpoint with Globus Connect Server on campus, and Globus Connect Personal on field devices will be functionally identical to FTP/SFTP, but better and more resilient.

Can we use Globus to transfer between two endpoints registered within our institution, such as from HPC storage to research storage, or is Globus only between internal to external, such as our institution to a national research facility?

Yes. Globus can be used to transfer between any internal or external endpoint to any other internal or external endpoint, regardless of the institution or location.

Is it possible to set permissions and collections linked to files with specific metadata, as opposed to setting up a folder?

No, this could only be set up at the folder-level.

In terms of groups, we're keen to let our scientists manage access with Globus Groups, but is there a way for administrators to limit access? Example: This PI is allowed to add anyone with a domain email address, but not random stranger GMail accounts.

There is no way to limit who a Group Admin can add to the group.

What's the typical/recommended setup for instruments that need to run GCP, such as Windows, in terms of 'which account owns the endpoint' and delegating/allowing access etc?

Please see the below links for more information:

- https://docs.globus.org/guides/recipes/automate-with-service-account/
- https://docs.globus.org/guides/recipes/instrument-transfer-and-share/

We need to transfer data to AWS S3 but do not want to use long lived keys for access to storage buckets. Is there currently a way to use Federated Identity to do this? Alternatively, we have a HashiCorp Vault service that provides just in time access to keys, is there a way to integrate this with some pre-scripting actions?

You can configure the gateway so that the Admin can manage a user's credentials. You can then create credentials as needed.

Is there a smart way to keep a Globus Group in sync with a local AD Group?

This can be configured via a CRON job that calls Globus CLI and adds/removes people. This would need service account credentials and administrator/manager role on the group.

Is there a way to get better transfer rates for object storage (SKA + Pawsey test endpoint for data to/from South Africa)?

Commands to change concurrency can be found at https://docs.globus.org/globus-connect-server/v5.4/reference/endpoint/update/#network_use

Useful links

[Storage Gateways Overview](#)

[S3 Storage Gateway Policies](#)

[Access Mode](#)

[Network Use](#)

[GlobusWorld 2025 Program](#)

More information

Find out more about Globus at **aarnet.edu.au/globus** or contact the AARNet Globus team at **globus@aarnet.edu.au**