Work with GridFTP

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Overall Plan

- Implement a managed GridFTP application.
- Manage: Use PBS to control number of simultaneous processes.
- Test on ESnet’s 100G testbed.
Starting Steps

- Used DYNES FDT server to install GridFTP.
- Setup SimpleCA based security.
- Tested against ESnet IO testers.
Demos for Today

- Using DYNES to run `globus-url-copy` against ESnet’s IO testers.
- Performing a third-party transfer on ESnet’s 100G testbed.
- Taking a look at transfer logs created.
Next Steps

With ESnet’s 100G testbed, we plan to

- use DYNES to initiate third-party transfers,
- collect transfer logs,
- try different parameter settings (e.g. \(-\text{fast}, -p\)),
- repeat prior tests.

After this: Learn how to start GridFTP using PBS.
Learning Experience

- Always something new to learn about Linux.
- Experience with certificates (SimpleCA).
- Testing on national testbed.
- Reinforcing concepts learned in lectures.
  - TCP Slow-Start.
  - Persistent connections.
  - Additional delays associated with different stages.
Demos

- A simple two-party transfer with DYNES:
  
  ```
  ```

- A third-party transfer on the 100G testbed:
  
  ```
  ```