Simplify Big Data Sharing with Globus Online

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The Challenge: Moving and Sharing Big Data Easily

• What should be trivial...

“I need my data over there – at my _____” (supercomputing center, campus server, etc.)

“I need to share my data with …”)

• … can be tedious, time-consuming and expensive

“GAAAH! %&@##”

Data Source

Data Destination

- Config issues
- Firewall issues
- Unexpected failure = manual retry
- Accounts & access control

www.globusonline.org
### Bandwidth Requirements

<table>
<thead>
<tr>
<th>Y Bytes of data</th>
<th>1H</th>
<th>8H</th>
<th>24H</th>
<th>7Days</th>
<th>30Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>10PB</td>
<td>25,020.0 Gbps</td>
<td>3,127.5 Gbps</td>
<td>1,042.5 Gbps</td>
<td>148.9 Gbps</td>
<td>34.7 Gbps</td>
</tr>
<tr>
<td>1PB</td>
<td>2,502.0 Gbps</td>
<td>312.7 Gbps</td>
<td>104.2 Gbps</td>
<td>14.9 Gbps</td>
<td>3.5 Gbps</td>
</tr>
<tr>
<td>100TB</td>
<td>244.3 Gbps</td>
<td>30.5 Gbps</td>
<td>10.2 Gbps</td>
<td>1.5 Gbps</td>
<td>339.4 Mbps</td>
</tr>
<tr>
<td>10TB</td>
<td>24.4 Gbps</td>
<td>3.1 Gbps</td>
<td>1.0 Gbps</td>
<td>145.4 Mbps</td>
<td>33.9 Mbps</td>
</tr>
<tr>
<td>1TB</td>
<td>2.4 Gbps</td>
<td>305.4 Mbps</td>
<td>101.8 Mbps</td>
<td>14.5 Mbps</td>
<td>3.4 Mbps</td>
</tr>
<tr>
<td>100GB</td>
<td>238.6 Mbps</td>
<td>29.8 Mbps</td>
<td>9.9 Mbps</td>
<td>1.4 Mbps</td>
<td>331.4 Kbps</td>
</tr>
<tr>
<td>10GB</td>
<td>23.9 Mbps</td>
<td>3.0 Mbps</td>
<td>994.2 Kbps</td>
<td>142.0 Kbps</td>
<td>33.1 Kbps</td>
</tr>
<tr>
<td>1GB</td>
<td>2.4 Mbps</td>
<td>298.3 Kbps</td>
<td>99.4 Kbps</td>
<td>14.2 Kbps</td>
<td>3.3 Kbps</td>
</tr>
<tr>
<td>100MB</td>
<td>233.0 Kbps</td>
<td>29.1 Kbps</td>
<td>9.7 Kbps</td>
<td>1.4 Kbps</td>
<td>0.3 Kbps</td>
</tr>
</tbody>
</table>

Use a Science DMZ to optimize
http://fasterdata.es.net/science-dmz/

http://fasterdata.es.net
What is Globus Online?

• **Move, sync, share files**
  – Easy “fire-and-forget” transfers
  – Share with any Globus user or group
  – Automatic fault recovery & high performance
  – Across multiple security domains
  – Web, command line, and REST interfaces

• **Minimize IT costs**
  – Software as a Service (SaaS)
    • No client software installation
    • New features automatically available
  – Consolidated support & troubleshooting
  – Simple endpoint installation with Globus Connect and GridFTP

• **Recommended by ALCF, ESnet, NERSC, XSEDE, Blue Waters, NCAR, many Universities**
Globus Online Demo
Plus Pricing

• **Why charge?**
  – To sustain Globus Online as a *non-profit service* to the non-profit research community

• **Basic: Free**
  – File transfer and synchronization to/from servers
  – Server endpoints with Globus Connect Multi-User
    • Can host shared endpoints for Plus subscribers
  – Personal endpoints with Globus Connect
  – Access to shared endpoints created by others

• **Plus: $7/month (or $70/year)**
  – Create and manage shared endpoints
    (from any sharable or personal endpoint)
  – Peer-to-peer (Globus Connect to Globus Connect)
  – Support for web and command line interfaces
• **Basic: Free**
  – Server endpoints with Globus Connect Multi-User
    • Can host shared endpoints for Plus subscribers

• **Provider: Starting at $20k/year**
  – Branded web site(s) with choice of default identity provider
  – Management and reporting tools
  – Support for branded, web, command line, and REST interfaces
  – Bundled with a set of Plus subscriptions

[https://www.globusonline.org/provider-plans/](https://www.globusonline.org/provider-plans/)
• Visit www.globusonline.org/signup to:
  – Get a free account to start moving and sharing files

• Visit www.globusonline.org for:
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  – Papers, Case Studies

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  – Forums

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