



INITIATIVE FOR GLOBUS IN EUROPE

Globus Online – Tutorial

EGI Community Forum 2013

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Initiative of Globus in Europe

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- 1 Setup
- 2 Globusonline Identity Management
- 3 Globus Connect



Outline

- 1 Setup
- 2 Globusonline Identity Management
- 3 Globus Connect



Setup Today

- All attendees will work with one VM instance
- Facts
 - VM instance (aka 'personal host') on StratusLab
 - Globus installed from IGE packages (repo-deb.ige-project.eu)
 - Download archive with user keys (http://acal.utcluj.ro/egicf2013/egicf2013_gotraining.tgz)
 - User certificates (/home/ige_userXYZ/.globus/)
 - Every participant receives an individual username (e.g. ige_user001, ige_user002 etc.)



(A/C) Login to your hands-on machine

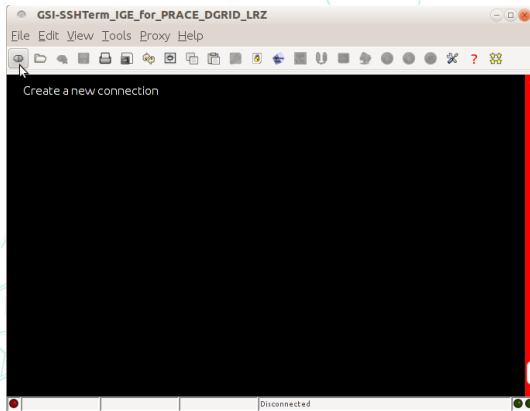
- Ready to login
- Windows? Download Gsissh-Term (IGE product):
<http://tinyurl.com/gsissh-term>
 - some extra steps are needed for the case above (see next slides)
- Linux/Unix? You can login from a command line terminal using (ignore in this case slides using Gsissh-Term)

To type

```
ssh -i egicf2013/ige_userXYZ/ige_userXYZ_id_rsa \  
-l ige_userXYZ <personal host>
```

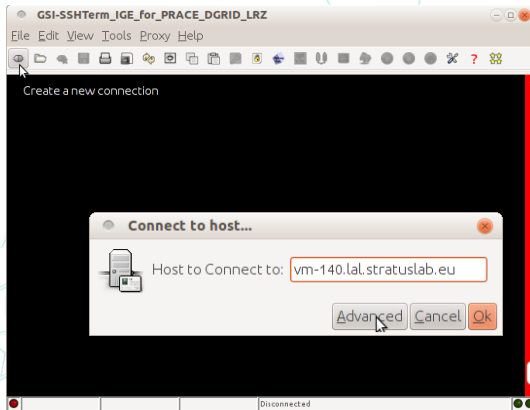
C GSISSH-Term: Create A New Connection

- Login to your tutorial host and user (e.g. `vm-113.lal.stratuslab.eu`, as user `ige_user001`)



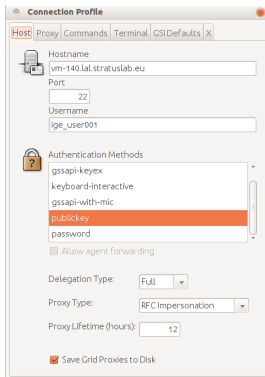
C GSISSH-Term: Create A New Connection

- Login to your tutorial host and user (e.g. `vm-113.lal.stratuslab.eu`, as user `ige_user001`)



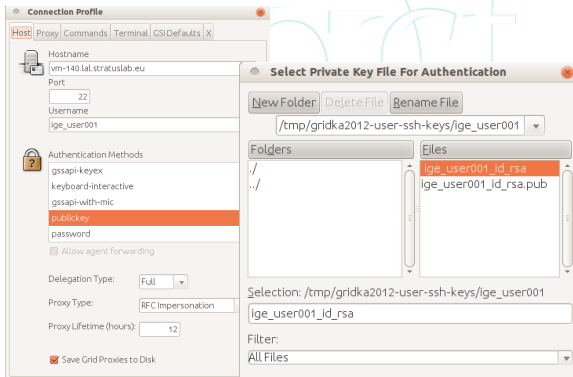
C GSISSH-Term: Chose Your “ssh” Private Key

- on the tab “Host” chose “publickey” in “Authentication Methods”
- choose your user’s private ssh key from the uncompressed ssh keys directory (see http://acal.utcluj.ro/egicf2013/egicf2013_gotraining.tgz)



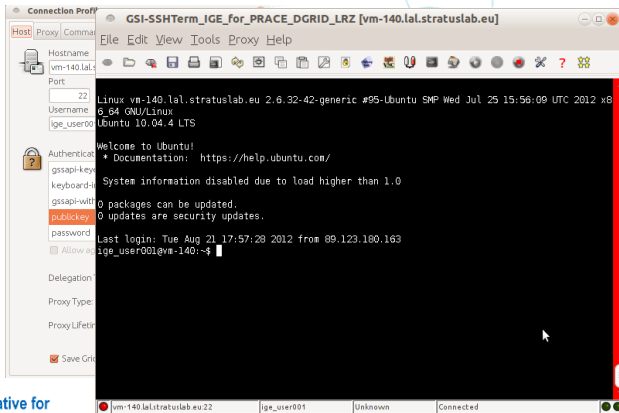
C GSSSSH-Term: Chose Your “ssh” Private Key

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C GSISSH-Term: Chose Your “ssh” Private Key

- on the tab “Host” chose “publickey” in “Authentication Methods”
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C Upload your proxy certificate. And Some Tips

- To upload your proxy to MyProxy:

To type

```
myproxy-init -l <your last name> -s gt-ige.utcluj.ro \  
-t <lifetime>
```

- lifetime of proxy in hours `grid-proxy-info`
- Default MyProxy server can be set with environment variable `MYPROXY_SERVER`: `export MYPROXY_SERVER=<set myproxy host here>`
- Credential lifetime on myproxy: `-c <hours>` (default one week=168h)
- Proxy lifetime of from MyProxy retrieved proxies: `-t <hours>` (default: 12 h)

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- 1 Setup
- 2 **Globusonline Identity Management**
- 3 Globus Connect



C Globusonline Identity

- Create account on webpage www.globusonline.eu



Sign Up...

Already a member? [Sign In.](#)

Full Name

Email

Username ✔ available

Your username can only contain lower case letters and must begin with one. It may contain numbers.

Password Medium

Better passwords are longer, use mixed case letters with punctuation and numbers.

Show Password

I have read and agree to the Globus Online [Terms of Service and Privacy Policy](#)

Please email me updates about Globus Online

C Globusonline Identity

- Extract your public certificate (as user userXX)

To type
`cat ~/.globus/usercert.pem | grep -A 20 BEGIN`

- Select and copy to clipboard
- Add your DN to Globusonline. On Globusonline webpage goto:
 <your unique username> → **"Manage Identities"** → **"Add X. 509 Certificate"**. Paste your X.509 public certificate into the dialog box.



C Globusonline Identity

- Extract your public certificate (as user userXX)

To type

```
cat ~/.globus/usercert.pem | grep -A 20 BEGIN
```

- Select and copy to clipboard
- Add your DN to Globusonline. On Globusonline webpage goto: `<your unique username>` → **"Manage Identities"** → **"Add X.509 Certificate"**. Paste your X.509 public certificate into the dialog box. Your certificate will be accepted

X509 certificates will take a few minutes to propagate before they are available via the CLI. ✕

My Account

Update Profile

Change Password

Manage Identities

Add External Identity

Add X.509 Certificate

Add SSH Public Key

Alias	Type	Authentication Provider			
cert-u-26	x509	/O=Grid/OU=Globu...	View Details	Update	Delete

Add External Identity

Add X.509 Certificate

Add SSH Public Key



C Globusonline Web Interface Endpoint Management and Data Transfer

- You need myproxy initialized. You can use the one you already set up earlier on gt-ige.utcluj.ro
- "Manage data" → "Manage Endpoints" → "Add Endpoint"**
 - gt-ige.utcluj.ro as **ucm** (see below)
 - udo-gt01.grid.tu-dortmund.de as **udo** (see below)

Add an Endpoint x

Endpoint Details > Identity Provider

Name user999#ucm
May contain: letters, numbers, '-' and '_' First character must be a letter or number. Field is case sensitive.

Short Description
 To help others understand this endpoint's purpose

Server Address gsiftp:// gridway.fdi.ucm.es

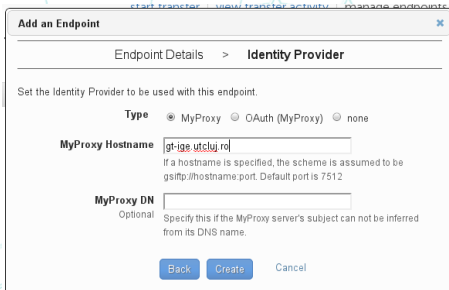
Server Port 2811

Subject DN
Optional Specify this if the server's subject can not be inferred from its DNS name.

Visible To Myself Only (private) Anyone (public)

C Globusonline Web Interface Endpoint Management and Data Transfer

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Add an Endpoint

Endpoint Details > **Identity Provider**

Set the Identity Provider to be used with this endpoint.

Type MyProxy OAuth (MyProxy) none

MyProxy Hostname
If a hostname is specified, the scheme is assumed to be gsiftp://hostname.port. Default port is 7512

MyProxy DN
Optional Specify this if the MyProxy server's subject can not be inferred from its DNS name.

C Globusonline Web Interface Endpoint Management and Data Transfer

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- **"Manage data" → "Manage Endpoints" → "Add Endpoint"**
 - gt-ige.utcluj.ro as `ucm` (see below)
 - udo-gt01.grid.tu-dortmund.de as `udo` (see below)

Activate Endpoint: user998#ucm

Please Enter Your Credentials

*MyProxy Server

*Username

*Passphrase

Server DN

Credential Lifetime (hours)

* Required



Authenticate Cancel

C Globusonline Web Interface Endpoint Management and Data Transfer

- Activate endpoints

Manage Endpoints *beta*

+ Add Endpoint + Add





In Use	Favorites	View All	Administratio
		endpoint	credential status
		endpoint status	
		user999#ucm	activate 
		user999#udo	activate 

C Globusonline Web Interface Endpoint Management and Data Transfer

- Activate endpoints

Manage Endpoints *Beta*

+ Add Endpoint + Add Globus Connect

In Use	Favorites	View All	Administration
Filter By <input type="text"/> Search Clear			
endpoint	credential status	endpoint status	
 user999#ucm	expires in 11:59:27 		
 user999#udo	expires in 11:59:27 		

C Globusonline Web Interface Endpoint Management and Data Transfer

• "Manage data" → "Start Transfer"

- Select <your username>#gt-ige as source. Use a file or folder from the location /tmp/Manchester2013_demo01.
- Select <your username>#udo as destination

Transfer Files

Get Globus Connect

Turn your computer into an endpoint.

The screenshot displays two side-by-side endpoint management panels. Each panel has an 'Endpoint' dropdown menu, a 'Path' input field, and a 'Go' button. The left panel's endpoint is 'user999#ucm' and the right panel's is 'user999#udo'. Below the input fields are navigation controls: 'select all | none', 'up one folder', 'refresh list', and a settings gear icon. The file list in both panels shows a file named 'gassGlobusonline.data' with a size of 18.67MB. A decorative chain of stars is overlaid on the interface, connecting the two panels.

C Globusonline Web Interface Endpoint Management and Data Transfer

- **"Manage data" → "Start Transfer"**
 - Select `<your username>#gt-ige` as source. Use a file or folder from the location `/tmp/Manchester2013_demo01`.

Transfer Request Submitted Successfully. Task ID:f4c09b14-c989-11e1-bf56-1231380b8963

Transfer Files

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Turn your computer into an endpoint.

The screenshot displays two side-by-side endpoint management panels. The left panel has an endpoint dropdown set to 'user999#ucm' and a path dropdown set to '/-/'. Below these, there are buttons for 'select all | none', 'up one folder', and 'refresh list'. A file named 'gassGlobusonline.data' is listed with a size of 18.67MB. The right panel has an endpoint dropdown set to 'user999#udo' and a path dropdown set to '/-/', with similar navigation buttons. A large blue play button is positioned between the two panels. A green notification bar at the top of the interface states 'Transfer Request Submitted Successfully. Task ID:f4c09b14-c989-11e1-bf56-1231380b8963'.

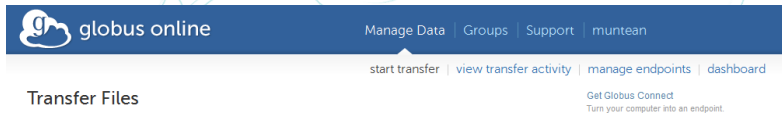
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Use Your Laptop with Globus Online

- Install **Globus Connect** on your laptop
- Available for Linux/Unix, MacOS, Windows . . .
- Follow the instructions from the Globus Online site
- Once it is up and running, go back to the endpoint and file transfer slides



globus online

Manage Data | Groups | Support | muntean

start transfer | view transfer activity | manage endpoints | dashboard

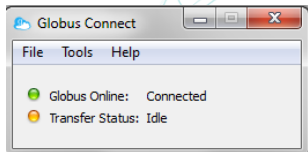
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Acknowledgements

- StratusLab: resources for the tutorial virtual machines
- IGE WP5 group: IGE testbed support
- UTCN team (Adrian Colesa, Marius Joldos) for the preparation of the tutorial



Contact

- EGCF Forum <http://www.egcf.eu/>
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- Ioan Lucian Muntean Ioan.Lucian.Muntean@cs.utcluj.ro
- Globus Online <http://www.globusonline.eu/>

