



CCLRC
Rutherford Appleton Laboratory

Graphical Access to the NGS for All

Java GSI-SSHTerm

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Outline

- Introduction and Brief History
- Authentication methods
- Other Services
- The Future – Site Single Sign-On
- Questions
- Demonstration

Introduction and Brief History

- There was a need for Windows (+ Linux!) users to have a straightforward way to access Grid resources
- SSHTerm is an Open Source (Source forge) project
- Jean-Claude Cote at NRC-CNRC developed a GSISSH module
- This has been rewritten and expanded by Matthew Viljoen and me at RAL
 - No need to know username
 - Many ways to access your certificate
 - X forwarding
 - Bugfixes

Authentication methods

- Local proxy (i.e. from grid-proxy-init)
- Certificate as two PEM files: usercert.pem and userkey.pem
- Certificate as a single PKCS#12 file
- Proxy downloaded from a MyProxy server
- Certificate stored in your browser [new]
 - Internet Explorer: Windows
 - Firefox & Mozilla: Windows and Linux

Other Services

- Normal SSH port forwarding
- X windows display forwarding
- GSI-SFTP simple file transfer

The Future – Site Single Sign-On

- Currently in development is Site Single Sign On access to grid resources via GSI-SSHTerm
 - Uses the CCLRC Kerberos/Active Directory infrastructure: tokens are obtained on logon in Windows and by running kinit in UNIXes
 - Modified terminal passes on Kerberos token to MyProxy server (with built in CA) to retrieve certificate or automatically generate a low-assurance certificate.

Questions?

Demonstration

- Normal version:
 - <http://www.grid-support.ac.uk/content/view/81/62>
- Kerberos single sign-on version:
 - <http://www.grid-support.ac.uk/content/view/135/76/>
 - This will not work as no where will accept your certificate!