

Distributed Web Security for Science Gateways

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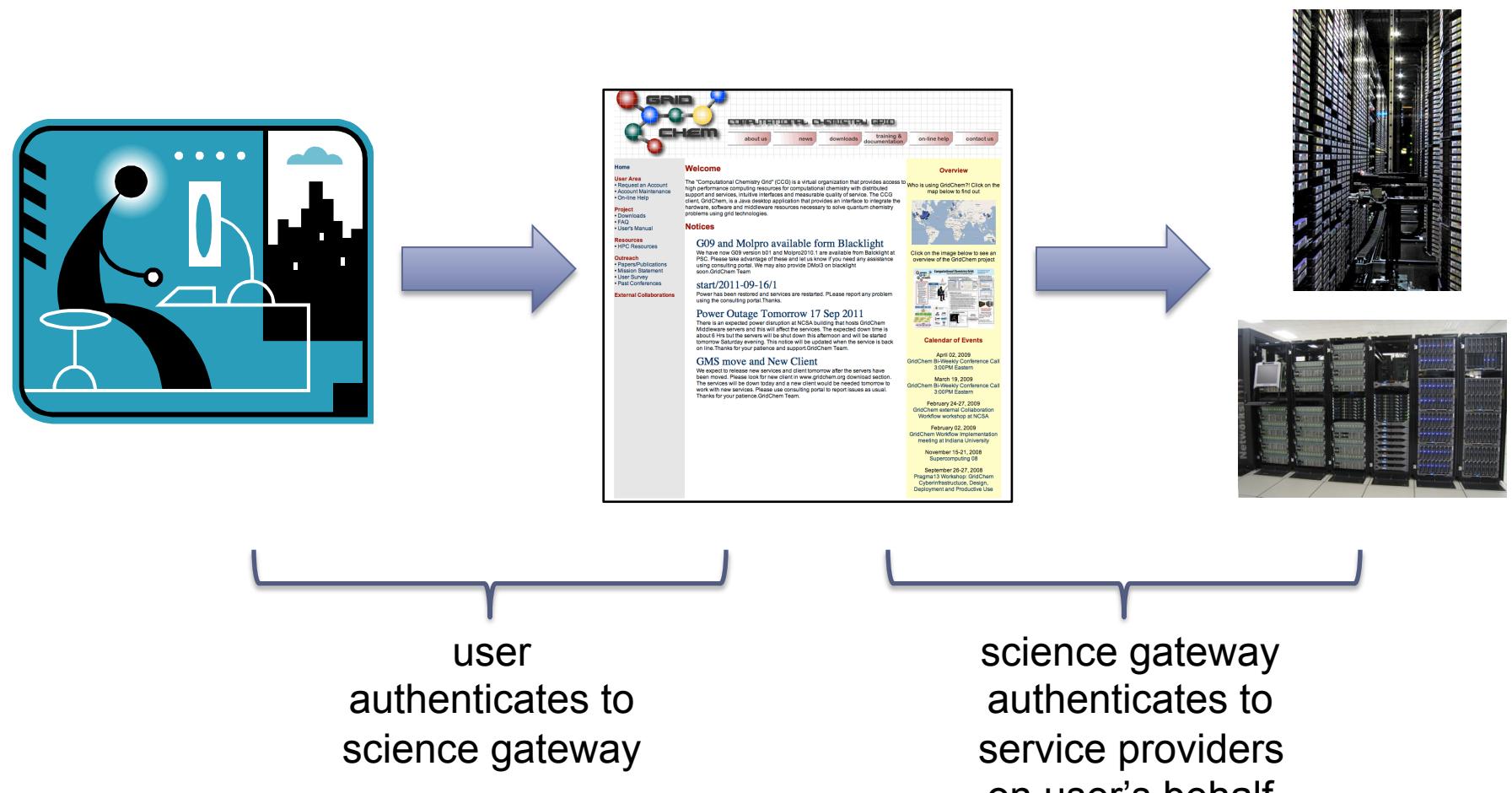
www.sciencegatewaysecurity.org



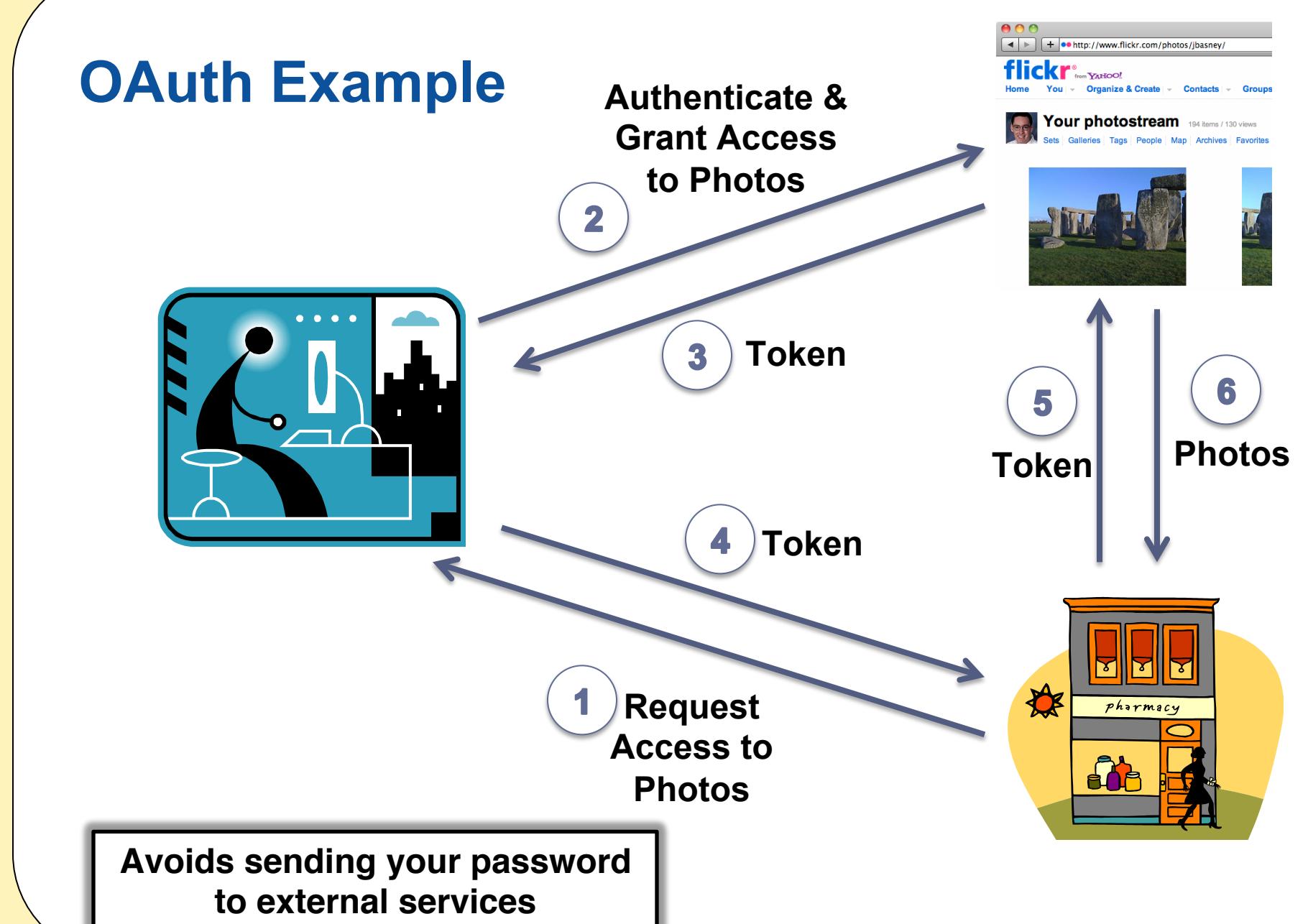
Jim Basney

Goal: Support use of OAuth by science gateways for distributed authentication, delegation, and authorization

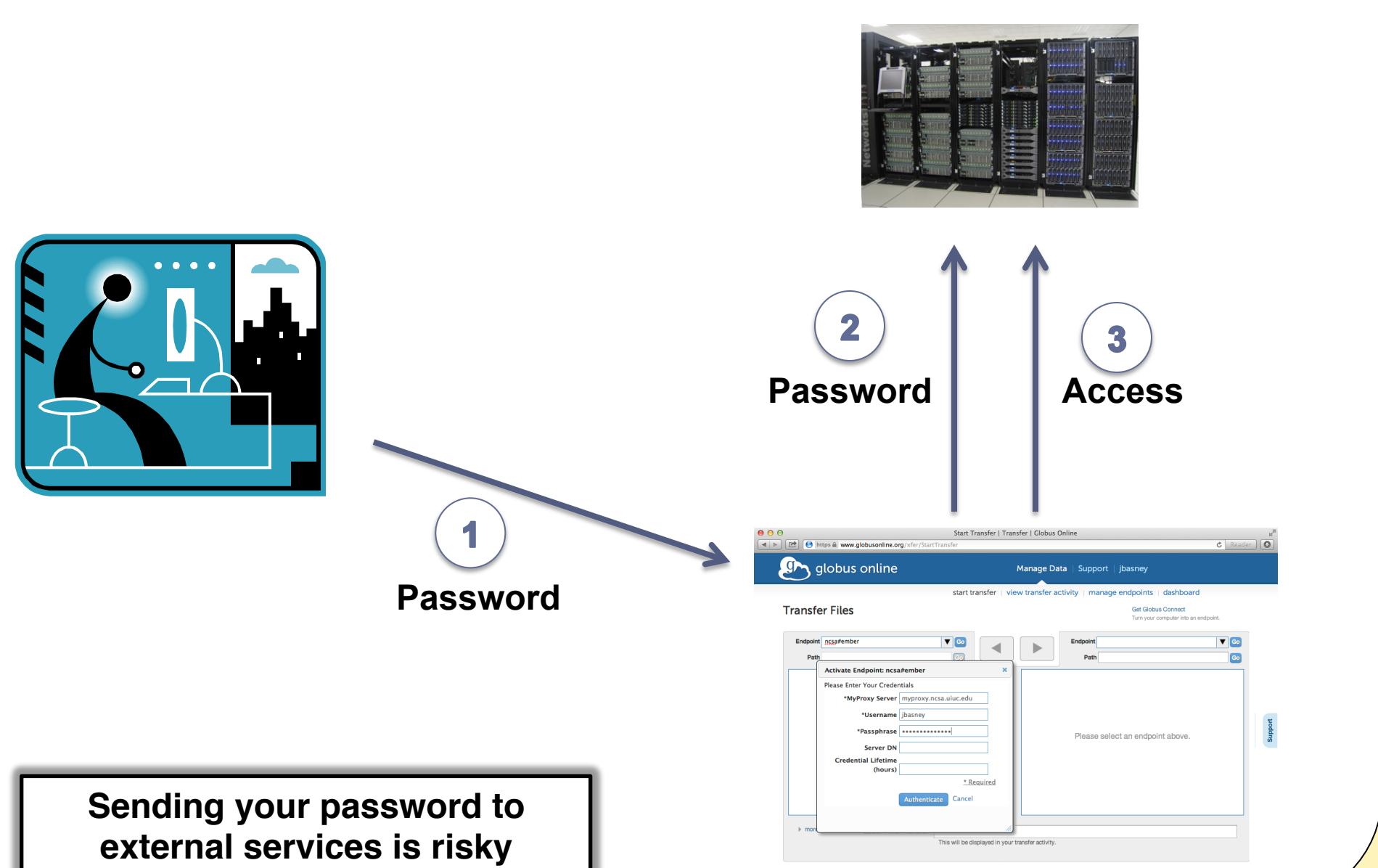
Science Gateways: Tiered Access



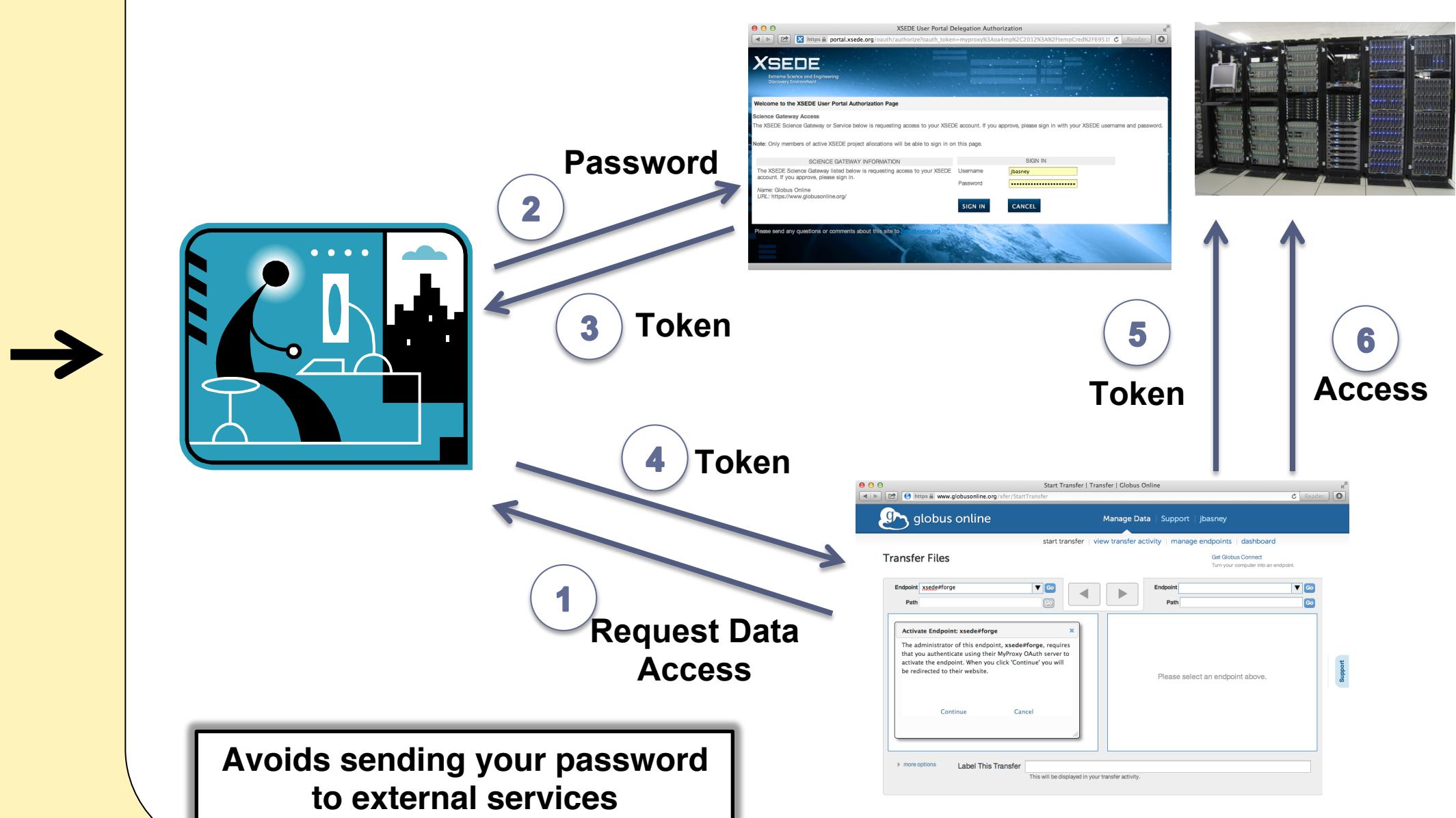
OAuth Example



Science Gateway with Passwords



Science Gateway with OAuth



Project Partnerships

Science Gateways

- UltraScan
- iPlant
- GridChem/ParamChem

CyberInfrastructure Providers

- XSEDE
- Globus Online

Software Toolkits

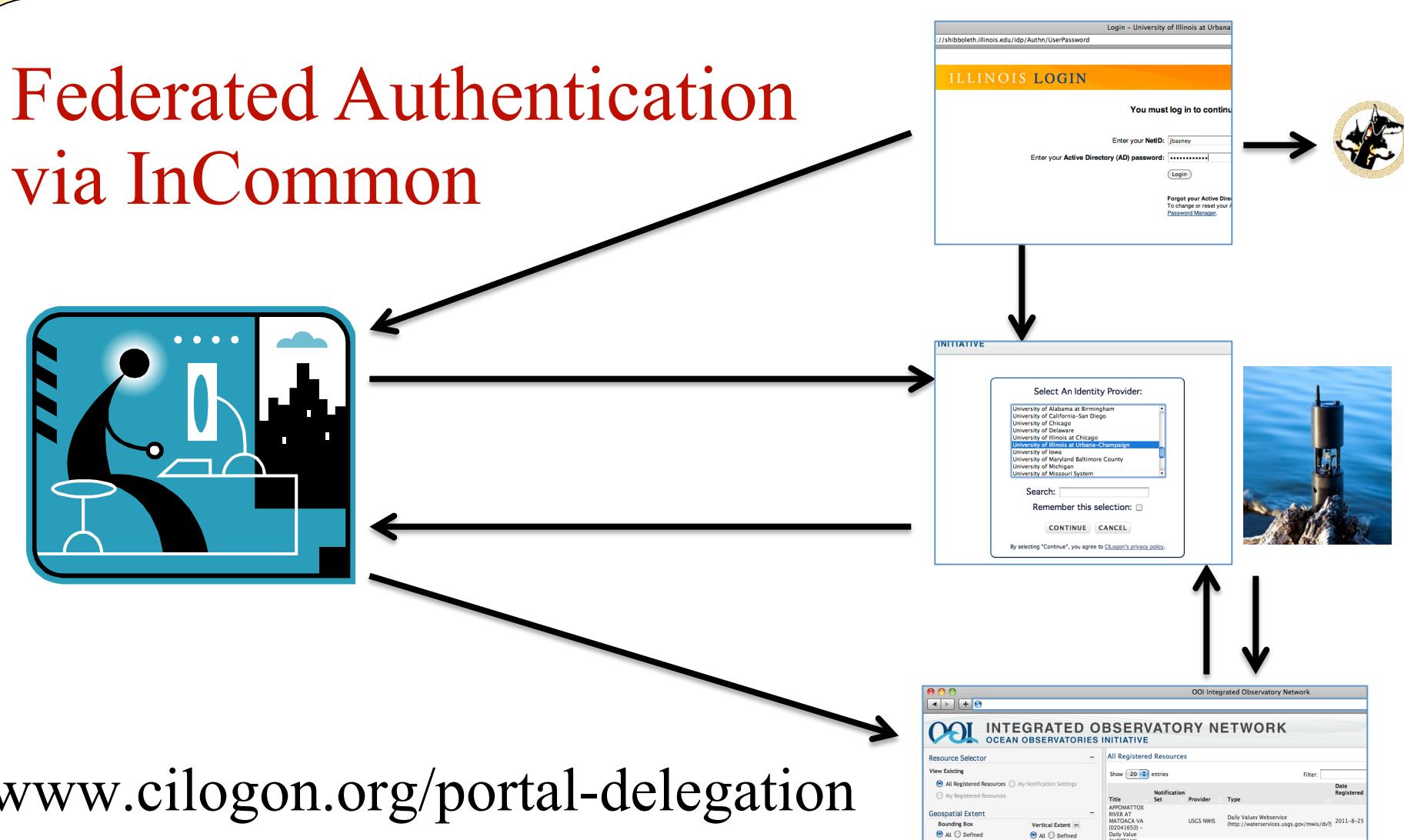
- Apache Airavata
- Apache Rave

OAuth for MyProxy

- Provides OAuth interface to widely used MyProxy certificate service
- Avoids sending MyProxy passwords to science gateways
- Now in production use by XSEDE and Globus Online

www.sciencegatewaysecurity.org/oauth-for-myproxy

Federated Authentication via InCommon



www.cilogon.org/portal-delegation

Interested in meeting the PIs? Attach post-it note below!



National Science Foundation
WHERE DISCOVERIES BEGIN

NSF Secure and Trustworthy Cyberspace Inaugural Principal Investigator Meeting
Nov. 27 -29th 2012
National Harbor, MD



INDIANA UNIVERSITY TACC