

# Distributed Web Security for Science Gateways

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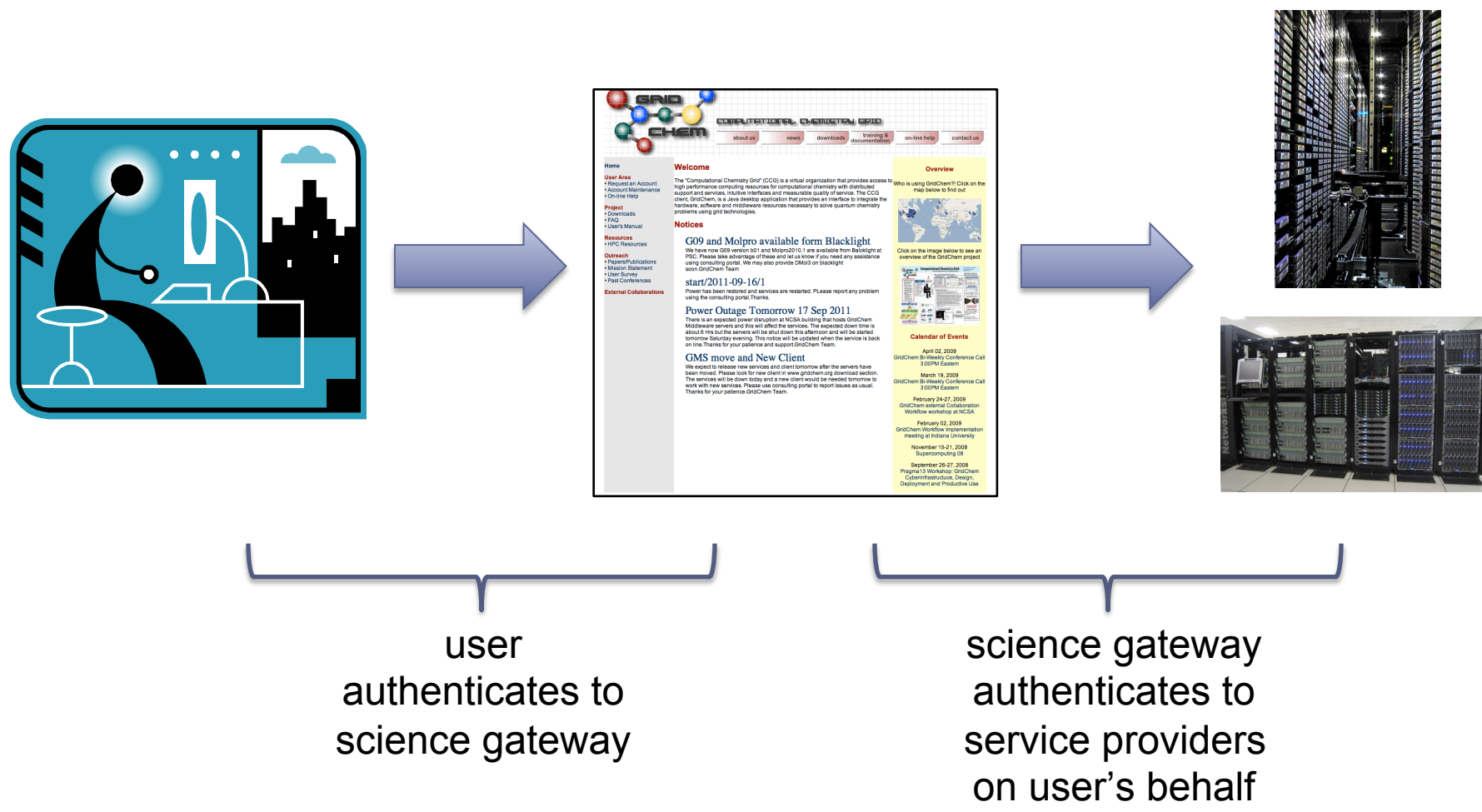
[www.sciencegatewaysecurity.org](http://www.sciencegatewaysecurity.org)



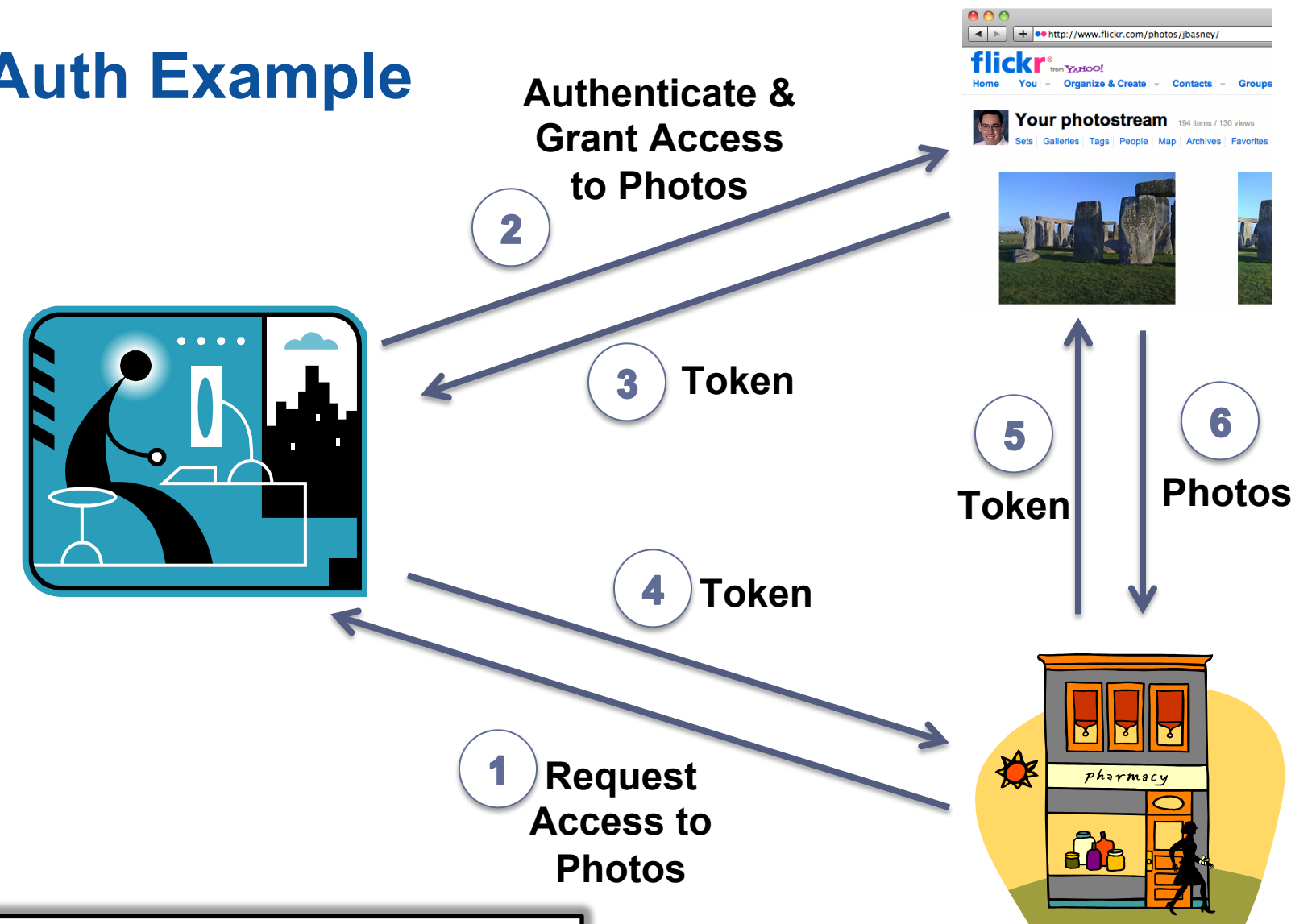
Jim Basney

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

### Science Gateways: Tiered Access

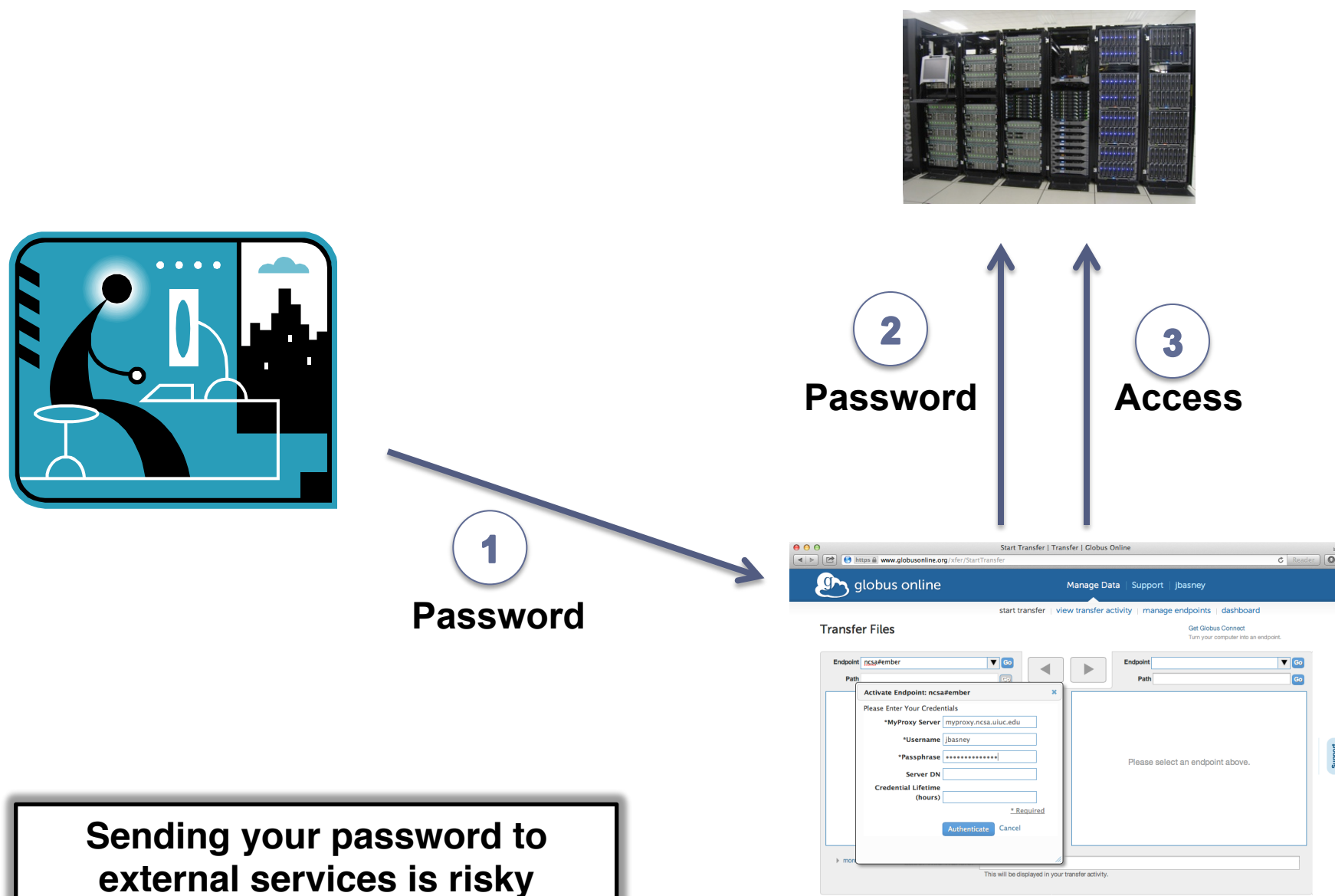


### OAuth Example

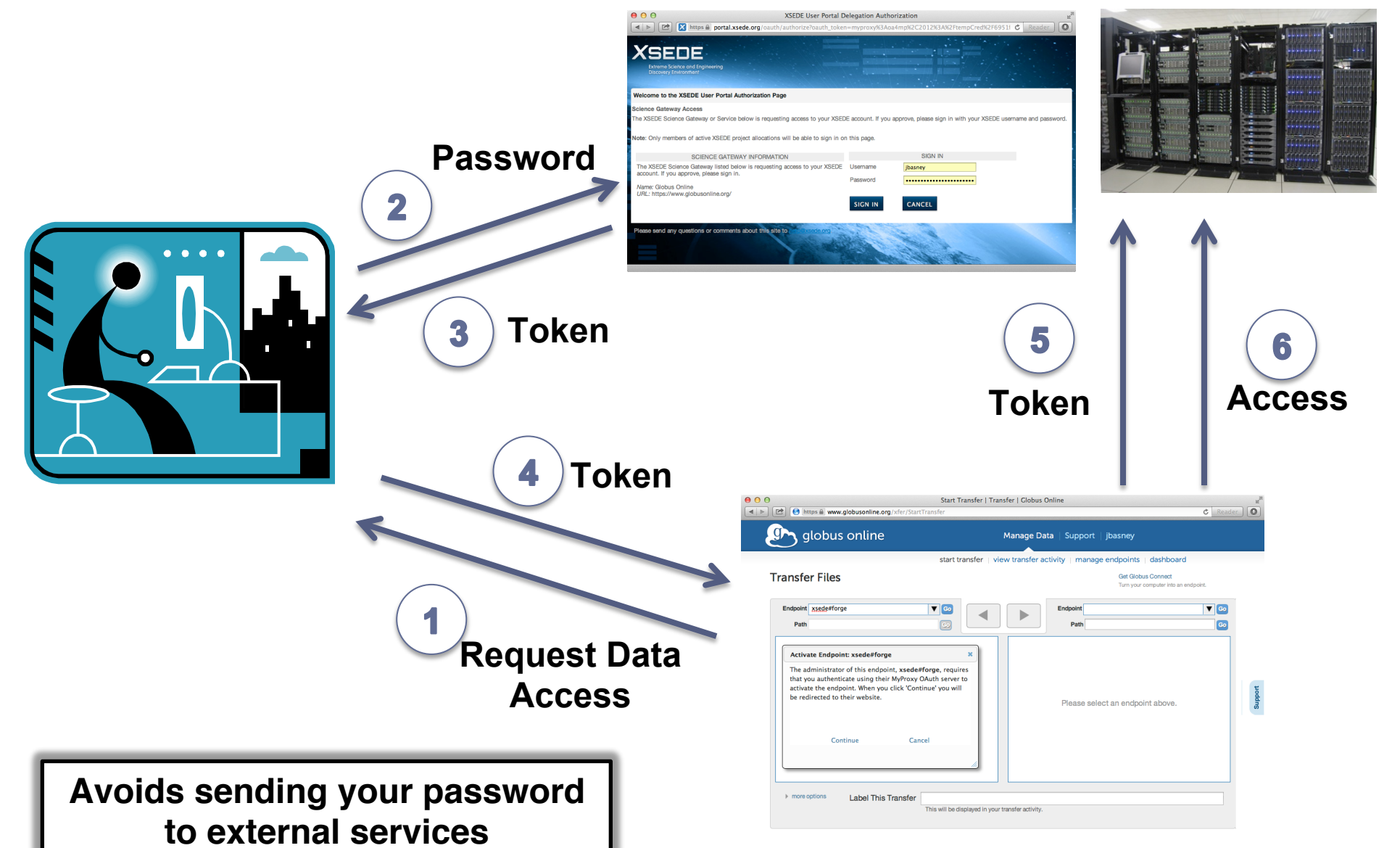


Avoids sending your password to external services

### Science Gateway with Passwords



### Science Gateway with OAuth



## Project Partnerships

### Science Gateways

- UltraScan
- iPlant
- GridChem/ParamChem

### CyberInfrastructure Providers

- XSEDE
- Globus Online

### Software Toolkits

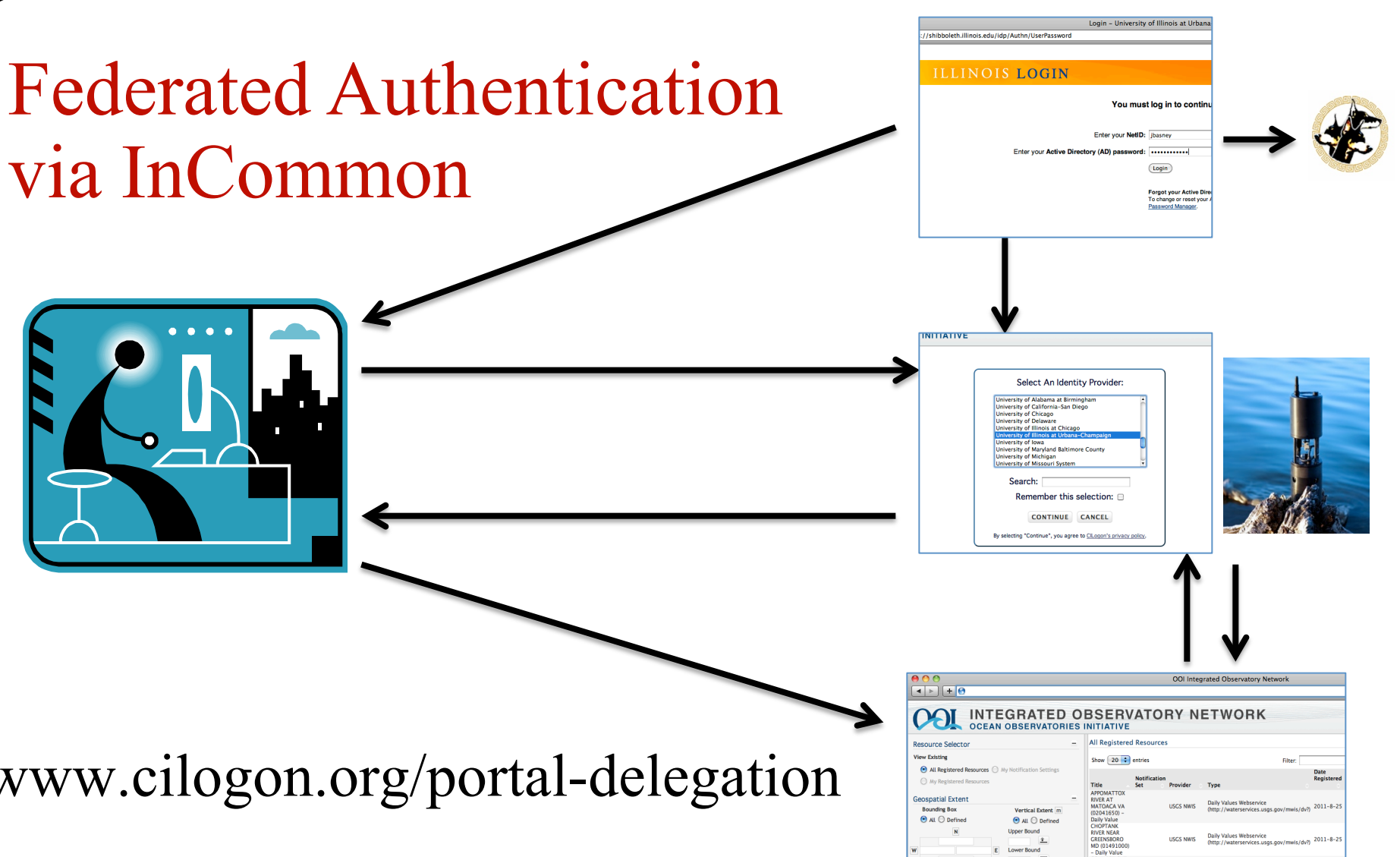
- Apache Airavata
- Apache Rave

### 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](http://www.sciencegatewaysecurity.org/oauth-for-myproxy)

### Federated Authentication via InCommon



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 -29<sup>th</sup> 2012  
National Harbor, MD

