

## Dr. Shepard at Ithaca Campus

# The Cornell Federation

Using Shibboleth and Grouper to Integrate Separate Identity Management Systems at Cornell University



Dr. Shepard in the Vet School on the Ithaca campus is setting up a restricted website for some collaborative work between the Vet college and CUMC on diagnosing and treating Lyme disease in dogs and people. Dr. Shepard creates a Grouper group in the Vet school stem called "cu:vet:lymecollab" and adds his collaborators to the group. The Grouper LDAP Provisioning Connector automatically populates the appropriate hasMember and isMemberOf attributes in the Ithaca, CUMC and Qatar directories. Dr. Shepard then creates a Shibboleth Service Provider (SP) for his <https://lymecollab.vet.cornell.edu> website and tells the Shibboleth SP Attribute Acceptance Policy to require the "isMemberOf: cu:vet:lymecollab" attribute value for this site.

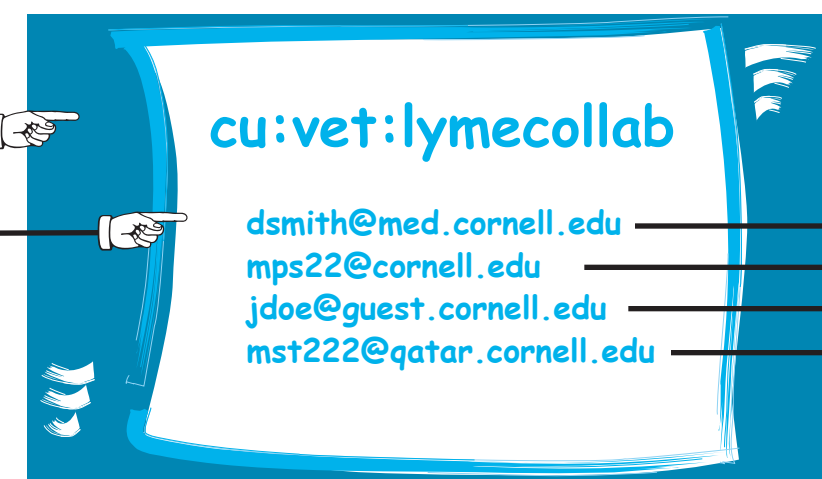
## Lyme Research Collaboration Website



The Shibboleth Service Provider checks authorization for the Lyme Research Collaboration website based on group membership information in the user's directory of origin.

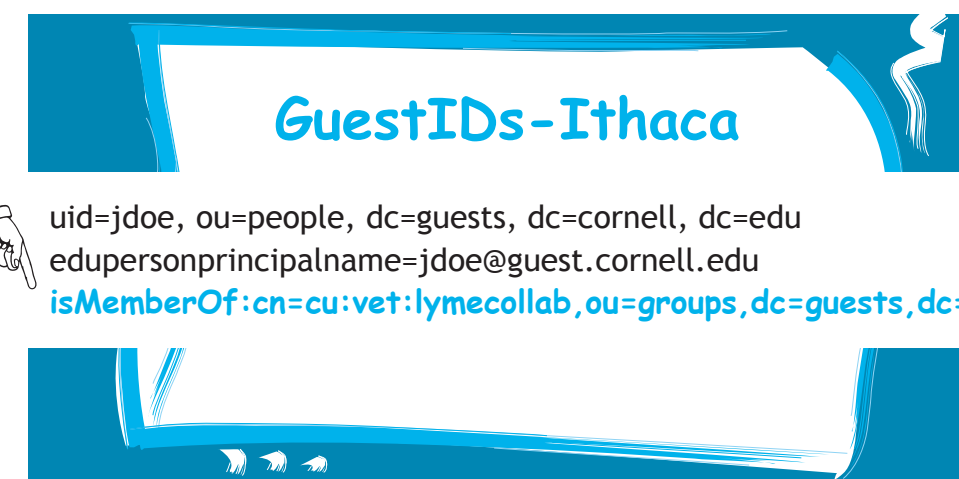
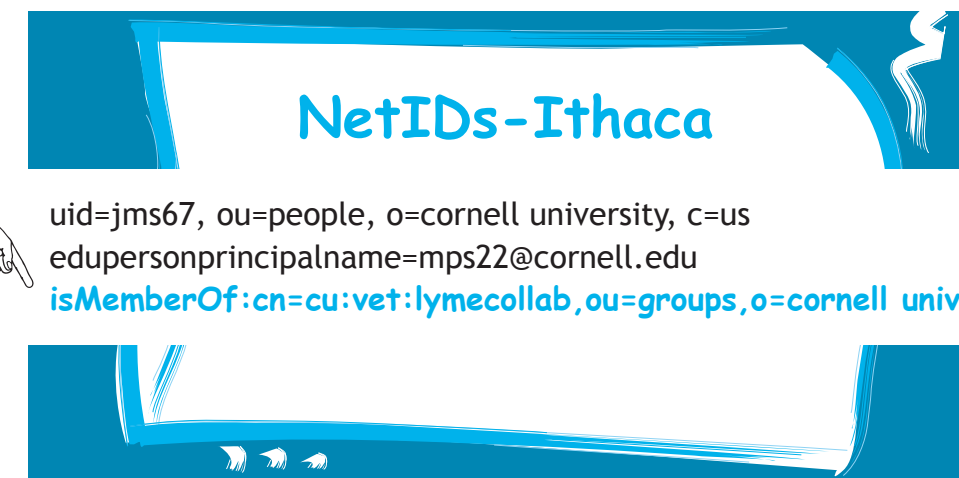
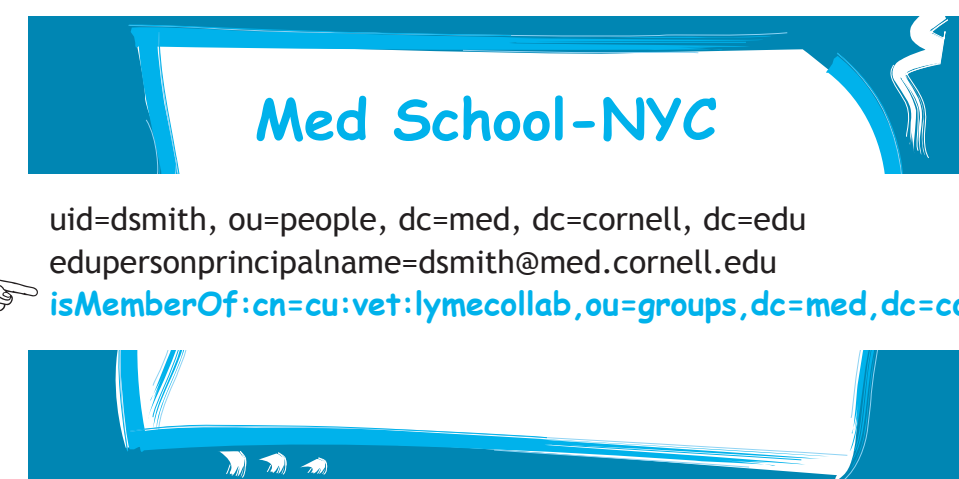
Creates group  
Adds members  
Creates Attribute Acceptance Policy

## Grouper



Grouper helps campuses manage information associated with AuthZ, e.g. group memberships. Grouper understands the concept of multiple sources of identities. Grouper will replace Cornell's Permit Server in June 2007.

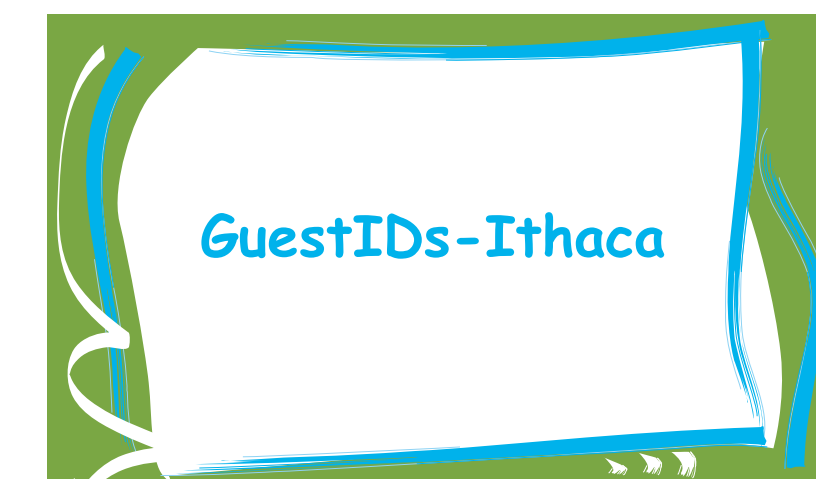
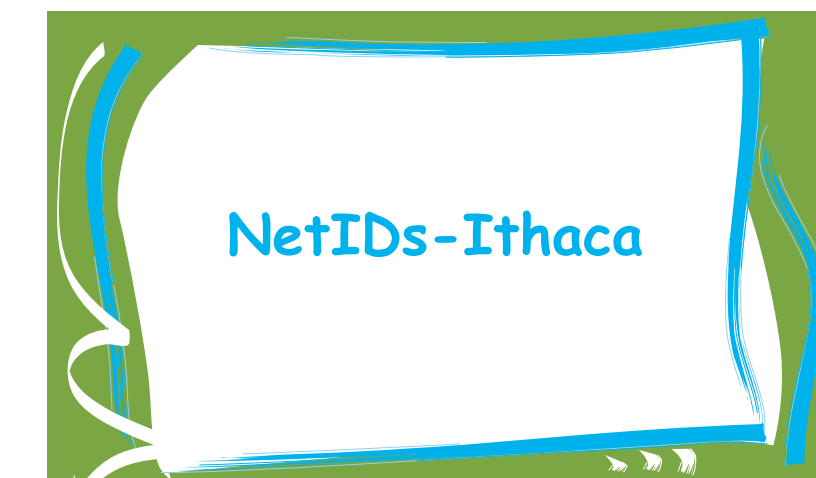
## Directories



Directories reside and are managed on the local campuses. The Grouper LDAP Provisioning Connector will populate the directories with group membership information.

LDAP Provisioning Connector updates directory entries

## Shibboleth Identity Providers



Shibboleth provides a standards-based link between existing intra- or inter-campus Authentication systems and resource providers, e.g. a restricted web site.

## Dr. Thani at Qatar Campus

Dr. Thani has some data ready to post to the collaborative research project website. Dr. Thani goes to the <https://lymecollab.vet.cornell.edu> website with her browser and is redirected to the Cornell Shibboleth WAYF. She selects Qatar as her Shibboleth Identity Provider, and logs in with her UserID. The Identity Provider checks her Attribute Release Policy and contacts the Qatar LDAP directory for the attributes, including "isMemberOf". The Shibboleth Service Provider in Ithaca checks that Dr. Thani is a member of the cu:vet:lymecollab group and allows her access to the website.

