GENI Terminology
slice project experimenter resource aggregate
An **experimenter** is a researcher who uses GENI resources.

Different types of experimenters have different roles and permissions:
- Advisor vs Grad Student
- Teacher vs TA vs Student
Creating an Account

GENI Portal is at:

https://portal.geni.net

Instructions for creating an account are:

http://groups.geni.net/geni/wiki/SignMeUp
GENI User Authentication

The GENI Portal leverages InCommon for single sign-on authentication

For many experimenters:
- no new passwords
- familiar login screens

Experimenters from 304 educational and research institutions have InCommon accounts

GENI Project Office runs a federated IdP to provide accounts for non-federated organizations.
Projects organize research in GENI

Projects contain both **people** and their **experiments**

A project is led by a single responsible individual: the **project lead**
A **slice** is a *container* of resources used in an *experiment*.

A slice can contain resources from one or more aggregates

A slice is in a single project

A slice has an **expiration**

Slice names are *public, reusable* and **unique** (*within a project*)
A resource is a piece of infrastructure

A resource can be real or virtual.

**Resource specifications** (aka. RSpecs) are used to describe and request resources.

Examples:
- Compute: computer vs virtual machine (VM)
- Wireline Network: VLAN or OpenFlow
- Wireless: WiMAX
An **aggregate** manages a set of reservable **resources**

Aggregates include:
- GENI racks
- OpenFlow
- WiMAX
Demo