

E-GENI Clearinghouse

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GENI – Global Environment for Network Innovations

Global distributed systems lab

Programmability across the stack

Heterogeneous

Enterprise GENI

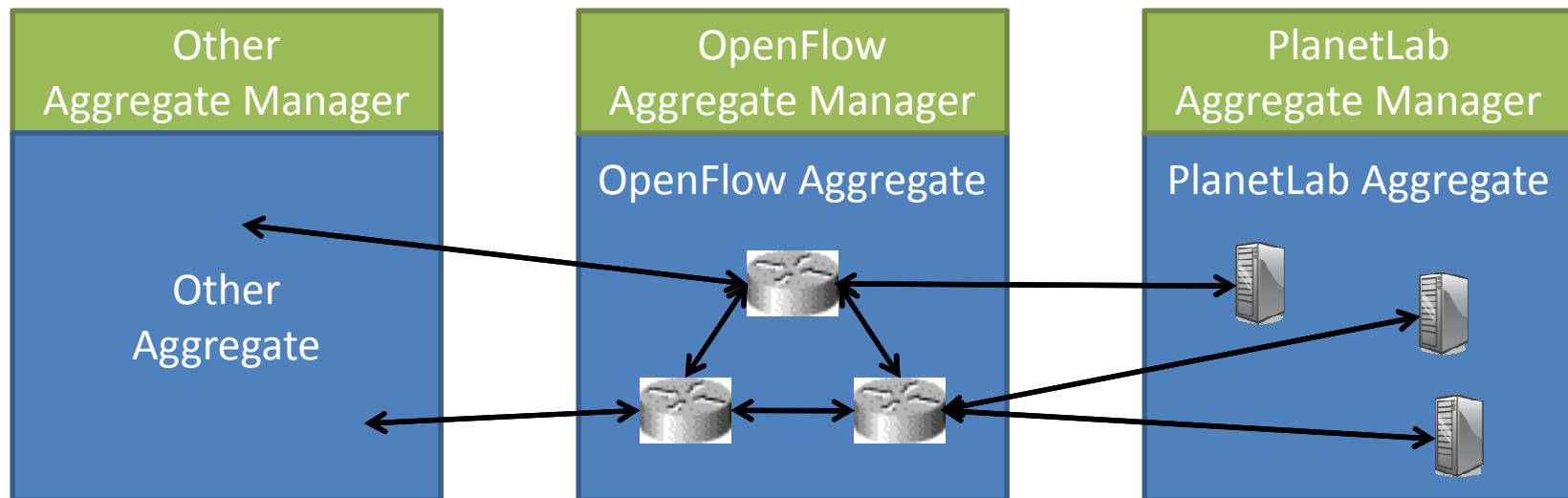
Stanford's contribution

OpenFlow as a programmable network substrate

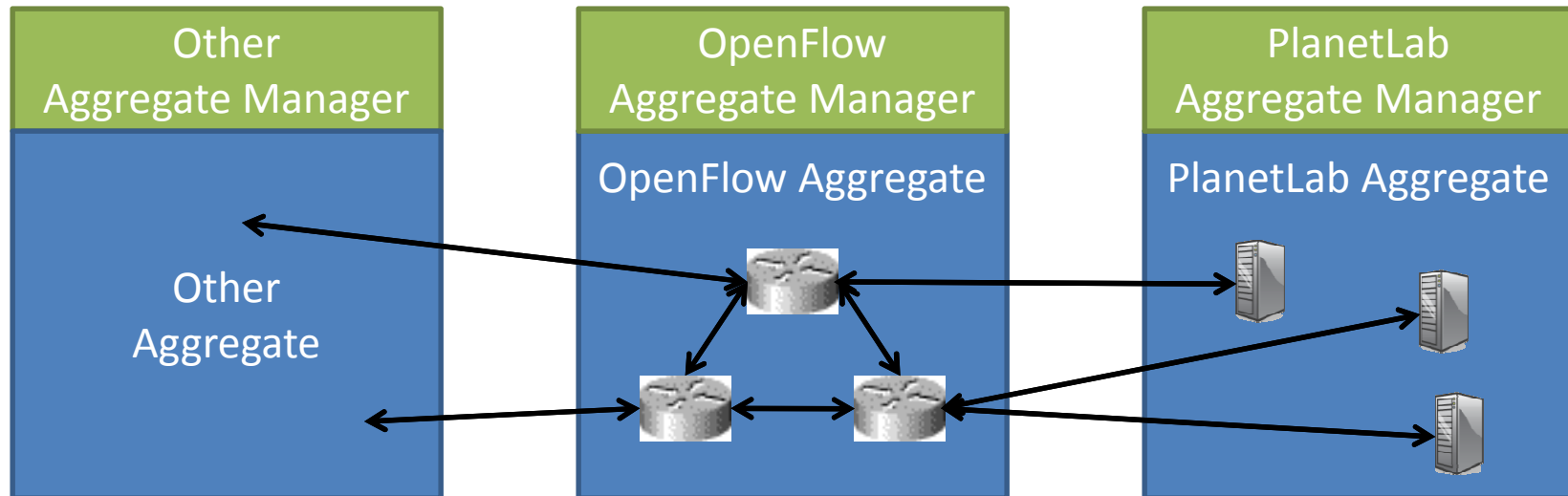
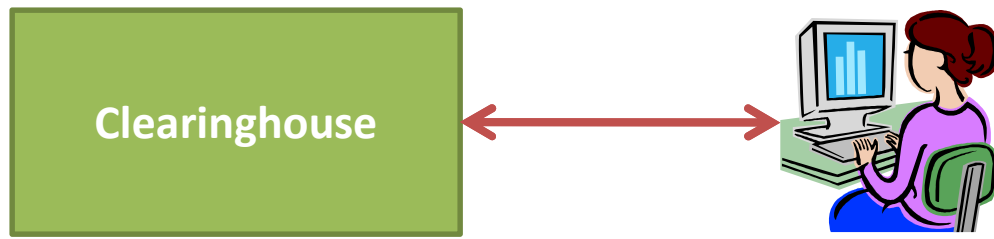
Integration

Overview

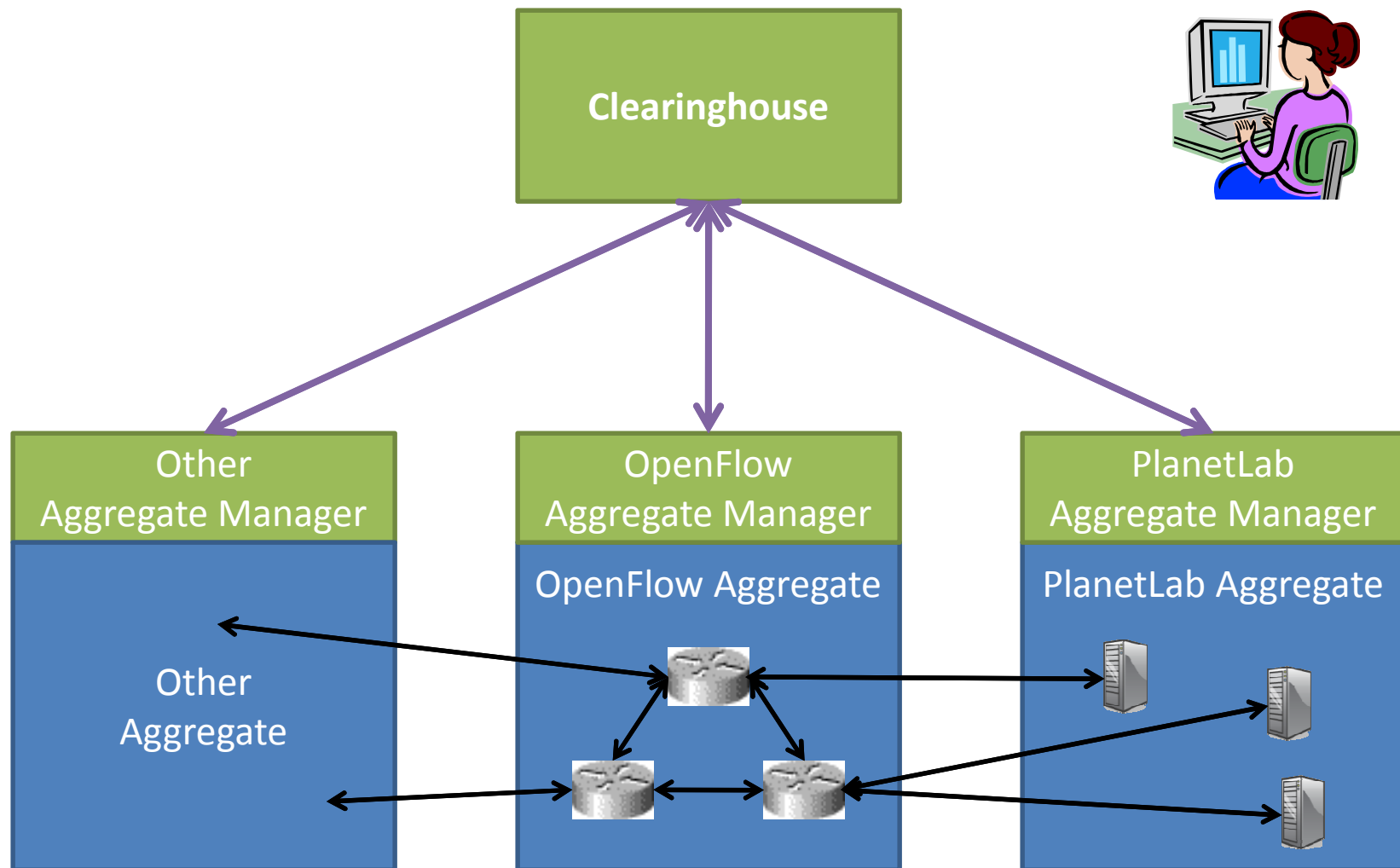
Clearinghouse



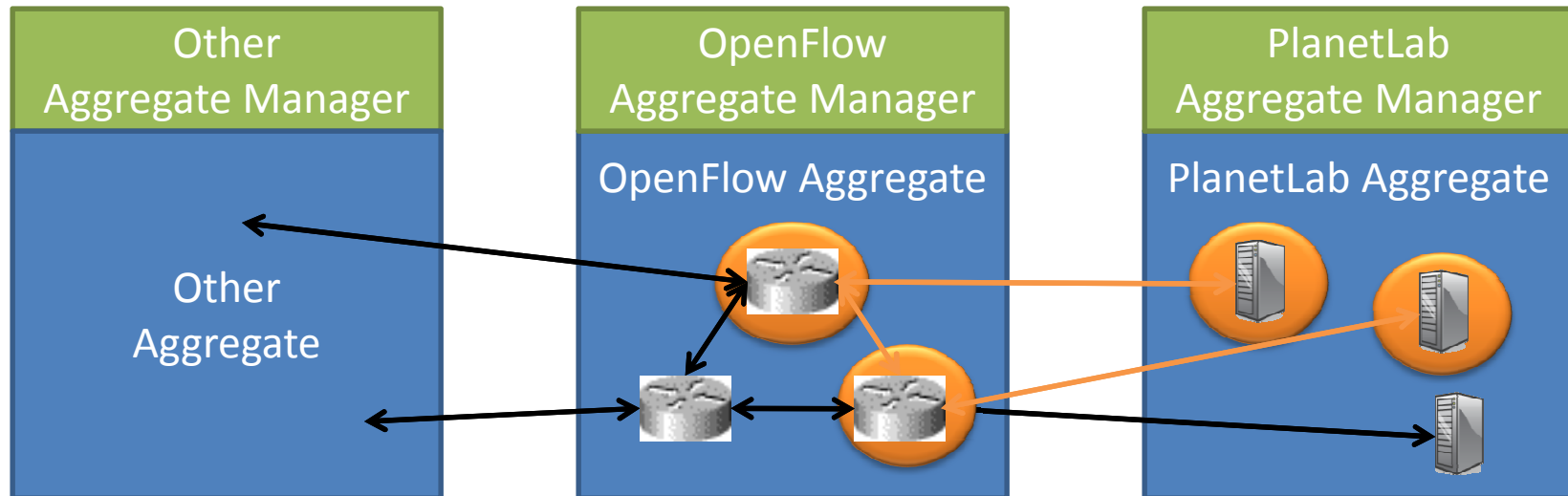
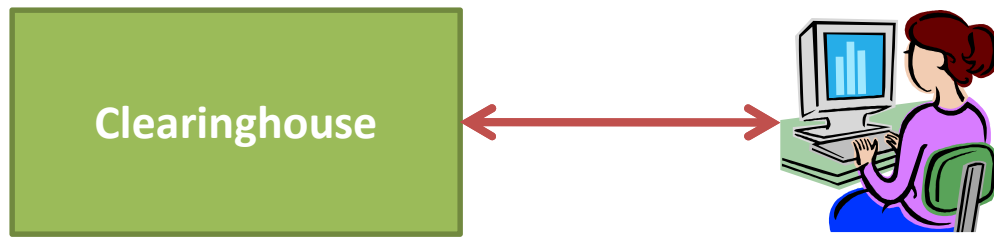
Overview



Overview



Overview



Clearinghouse

Authentication

Aggregation

Reservations

Our Clearinghouse

Web application using Django

Reservations across OpenFlow and PlanetLab

Quick Demo of Slice Reservation

Problems/Issues

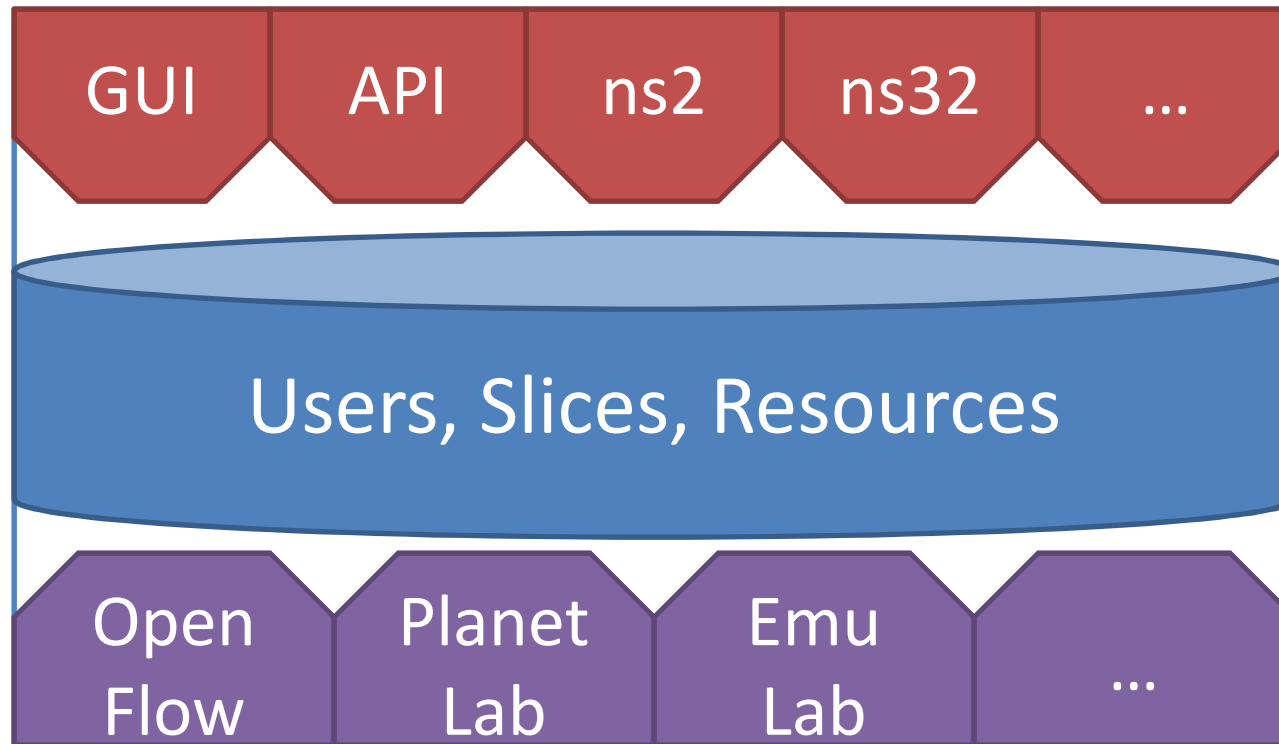
Handling Heterogeneity

Simplifying authentication and authorization

Useable User Interfaces

Abstracting models

Next Clearinghouse

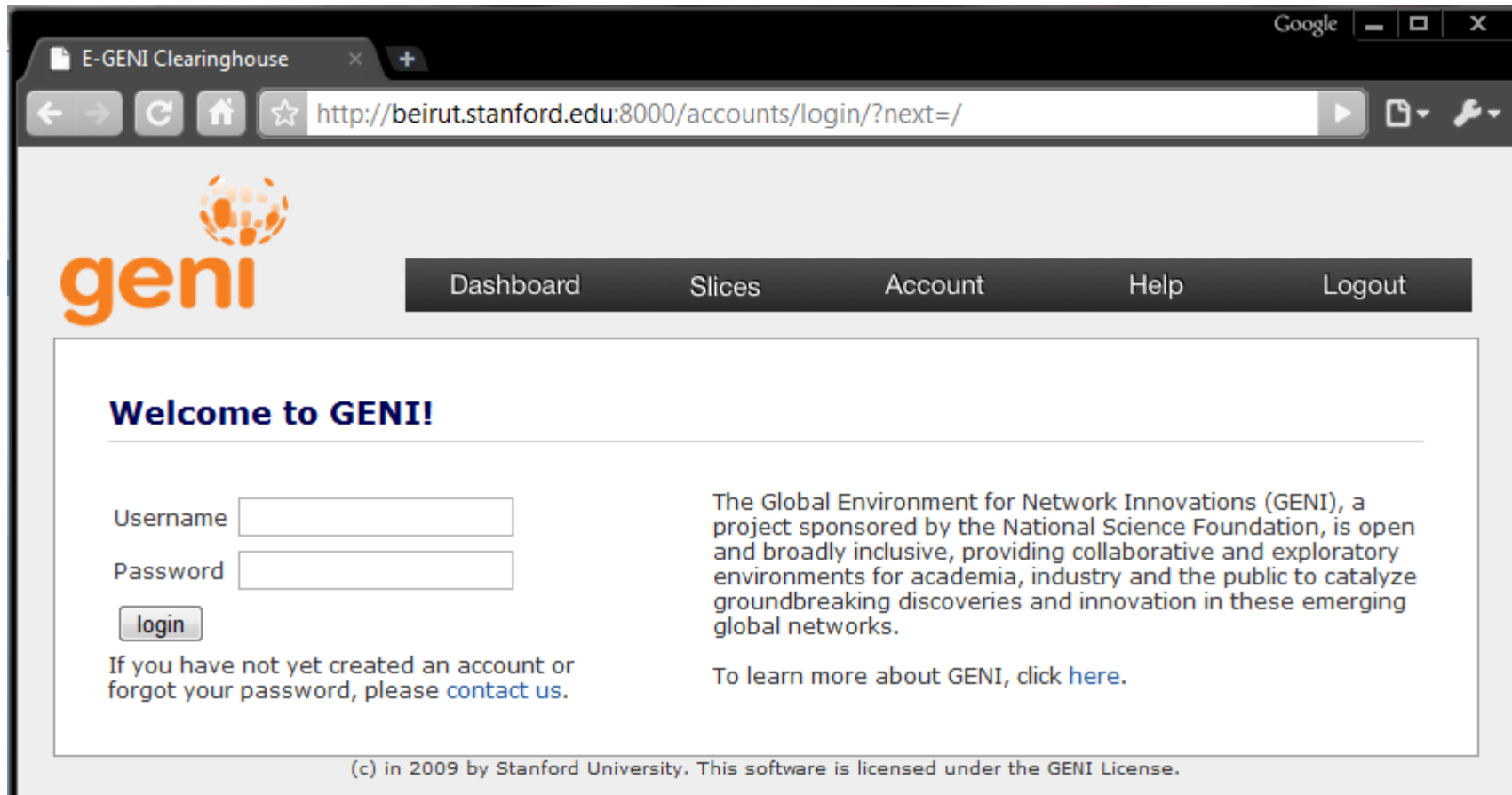


Thank You!

Questions?

Backups

Clearinghouse



The screenshot shows a web browser window with the title "E-GENI Clearinghouse". The address bar displays the URL "http://beirut.stanford.edu:8000/accounts/login/?next=/". The page features the GENI logo (an orange globe icon above the word "geni" in orange lowercase letters) on the left. A dark navigation bar contains the links "Dashboard", "Slices", "Account", "Help", and "Logout". The main content area has a heading "Welcome to GENI!" followed by a login form with fields for "Username" and "Password", and a "login" button. To the right of the form is a paragraph about GENI and a link "here". At the bottom, a footer states: "(c) in 2009 by Stanford University. This software is licensed under the GENI License."

E-GENI Clearinghouse

Google

http://beirut.stanford.edu:8000/accounts/login/?next=/

geni

Dashboard Slices Account Help Logout

Welcome to GENI!

Username

Password

If you have not yet created an account or forgot your password, please [contact us](#).

The Global Environment for Network Innovations (GENI), a project sponsored by the National Science Foundation, is open and broadly inclusive, providing collaborative and exploratory environments for academia, industry and the public to catalyze groundbreaking discoveries and innovation in these emerging global networks.

To learn more about GENI, click [here](#).

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Clearinghouse

<http://beirut.stanford.edu:8000/clearinghouse/slice/3/select/topo/>

Step 2: Select Hosts, Nodes, and Links for Slice plug-n-serve

