# Creating the NDN Tutorial for GEC 21
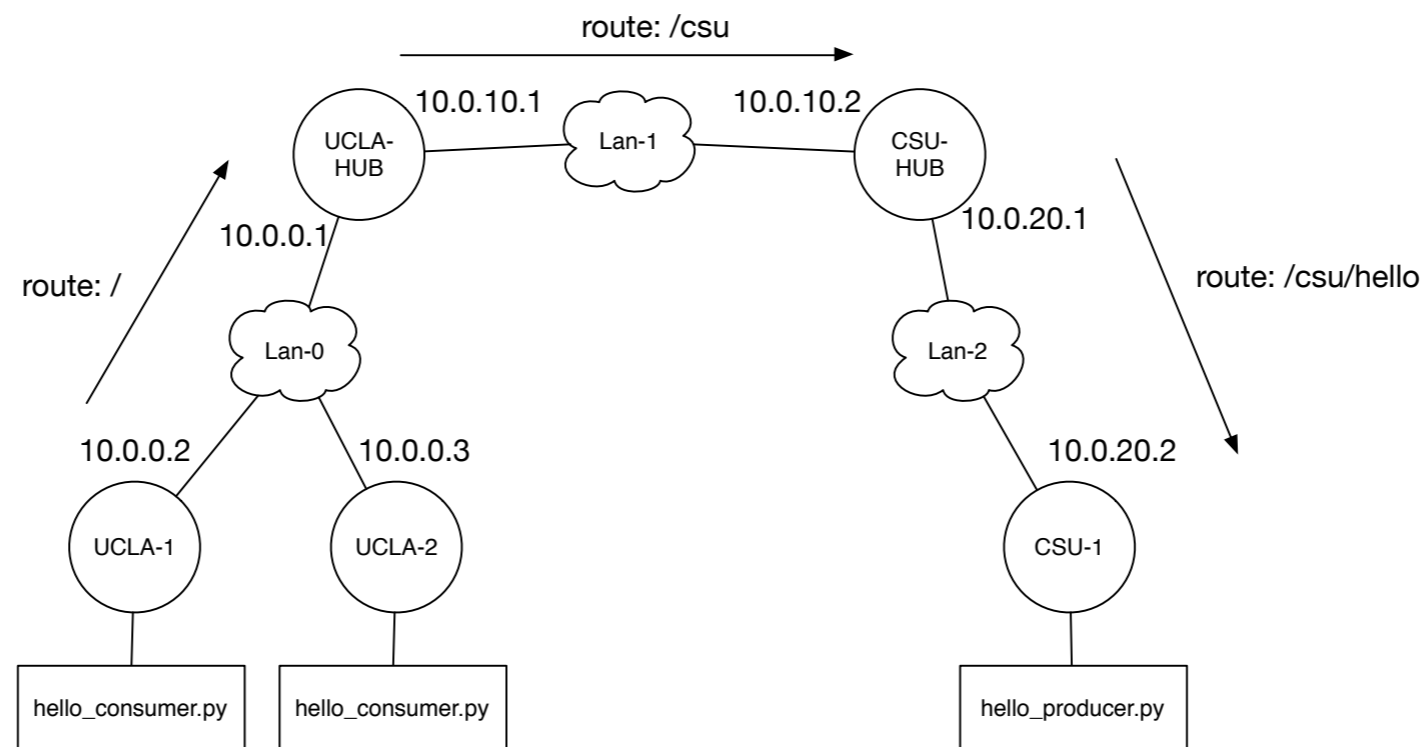
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# My Background

- First time using GENI

- Used (vaguely) similar platforms:

  - Planet Lab

  - Open Network Lab (ONL)

# Project

- Presenting tutorial on NDN concepts and software

- Goal: run NDN software on 5 nodes using 1 AM

- Create and distribute Ubuntu images with NDN software pre-installed

# Problems

- RSpecs: how to make unbound?

- Other problems involve "too many options"

  - Which tool should I use? (Flack, jFed, Jacks, …)

# Image Creation is Confusing

- Need to create Ubuntu image

  - ExoGENI: choose Ubuntu, use some scripts

  - InstaGENI: choose xen, select Ubuntu VM from some menu, create image

- Global vs. non-global (+ Flack bugs)

- URNs vs. URLs

# Suggestions

- Most problems can be easily fixed by documenting a learning path

- Feature requests:

  - URNs + URLs: Need both or are URLs sufficient?

  - Global vs Non-global: Make everything global?

  - RSpecs: script for making unbound?

  - Allocation: Don't care about AM, let GENI pick one (e.g. least utilized)

- …Should I have just learned and used omni?

# Thanks!

- Special thanks to <u>tutorials@geni.net</u> team


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