## High-Speed Networking and Distributed Applications Lab Exercise 1: Introduction to GENI and the GENI Portal

CS-491 Summer 2013

In this lab exercise, you will reserve some compute resources in the GENI environment using the graphical tool Flack. You will log into these virtual machines and verify IP (layer 3) connectivity between them using ping. Time permitting, you will also disable IP connectivity between them and verify layer 2 connectivity using pingPlus.

Proce	$\operatorname{edure}$
Step 0	2: Obtain a GENI Portal account and join the CS491 project on the GENI Portal.
Step 1	: Generate and download your ssh keypair.
Step 2	2: Create a slice in Flack with the namelab1.
(8	3: In Flack, reserve two virtual machines at the Kettering InstaGENI rack geni.kettering.edu.cm). Name one of them client and the other server.  Vait until the resources are ready (the Flack canvas will turn green).
cl	Log into the nodes:  lient login: ssh -p
s	5: Verify IP (layer 3) connectivity between the two nodes by ping.  erver's data interface:
Time b	permitting: Disable IP connectivity and verify layer 2 connectivity between nodes by pingPlus.  ttp://paws.kettering.edu/~chan7781/geni/pingPlus-0.2.tar.gz  erver's data interface:
	3: Clean up after yourself. Log out of your nodes, and delete your resources or let

## ${\bf Acknowledgement}$

Adapted from Edwards, S. & Riga, N. (2013, July). "Getting started with GENI and the GENI Portal, part 1". Presented at the 17th GENI Engineering Conference, Madison, Wisconsin.

http://groups.geni.net/geni/wiki/GEC17Agenda/GettingStartedWithGENI\_I

## Feedback?

Questions? Comments? Concerns? Accolades? Insults? Send email to chan7781@kettering.edu.