Technical Status Report for Million Node GENI project (proposal 1645, NSF Grant CNS-0834243), for January through March 2010

PI: Thomas Anderson
Co-PI: Justin Cappos

Major accomplishments

Milestones achieved

N/A

Deliverables made

b. Operation with end-hosts that have intermittent connectivity and/or are behind firewalls and NATs (16 mo)   (Jan 4, 2010)
   Sent on 5 Jan 2010

c. Implement example applications on the VM such as Chord and a web redirection service (18 mo)   (Mar 5, 2010)
   Sent on 5 Mar 2010

Description of work performed during last quarter

Activities and findings

We added functionality to better support users behind a NAT or firewall.   We also implemented example applications like Viewpoints and Seobinggo.

Project participants

Tom Anderson (PI)
Justin Cappos (Co-PI)
Arvind Krishnamurthy (Senior Personnel)
Ivan Beschastnikh (Ph. D. student)
Justin Samuel (Programmer)
Monzur Mohammad (Open Source Developer)
Armon Dadgar (Undergraduate)
Cosmin Barsan (Undergraduate)
Eric Kimbrel (Undergraduate)
Conrad Meyer (Undergraduate)
Yefete Yemuru (Undergraduate)

Zachary Boka (Undergraduate)
Jason Chen (Undergraduate)
Evan Meagher (Undergraduate)
Yoon Sung Hong (Undergraduate)
Stephen Sievers (Undergraduate)
Jeff Rasley (Undergraduate)

Publications (individual and organizational)

We gave a talk at PyCon 2010 and a talk at NW Python Day.

Outreach activities

We have a pending talk at the CCSC-CP regional educational conference.

Collaborations

We have a deployment working on DOME, PlanetLab, GpENI, and done automated deployments on Emulab.   We are using the Digital Object Registry in producetion now.   We have had discussions about collaboration with the Raven / Stork project.   Researchers at Nokia have ported Seattle to some of their newer phones.   We have had early stage discussions with folks at Google about supporting Google Native Client.

Other Contributions

We demonstrated our progress at GEC 7 and gave presentations in both the Cluster C meeting and the tools and services working group.