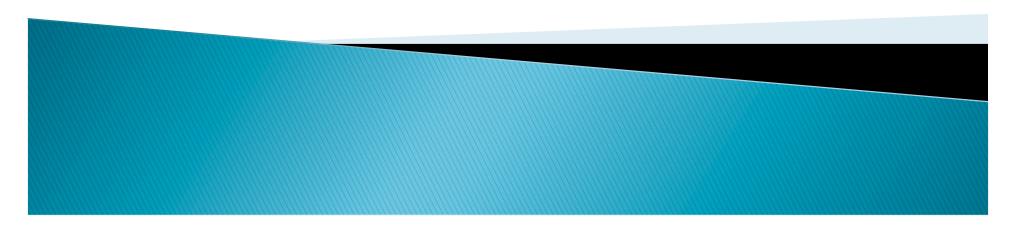
PlanetLab Control Framework Highlights

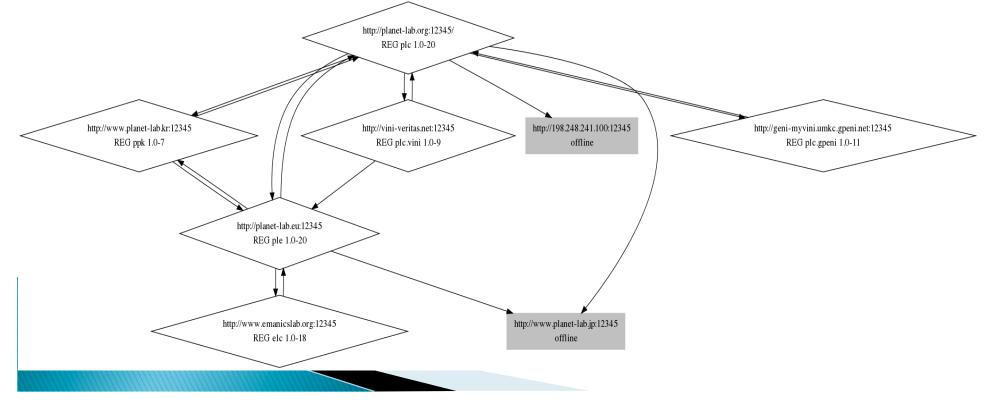
Andy Bavier Princeton University March 15, 2011



Federation

PlanetLab federation partners:

- PlanetLab Europe, VINI, M-Lab, GpENI, PLJ
- New: PlanetLab Korea, Emanics Lab (via PLE)
- Soon: GENICloud, VICCI



SFA

- Latest version: SFA v1.0–20
 - Deployed on PLC, PLE
 - Resolve issues w.r.t. ProtoGENI interoperability
- Challenge: different RSpec formats
 - Tweaks to PLC's RSpec for ProtoGENI tools
 - RSpec translation between formats
 - Currently ProtoGENI is doing this but we're not



Sface GUI

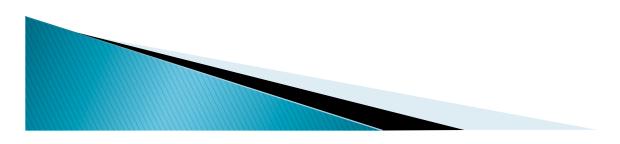
- Goal: Provide PlanetLab users with an easyto-use desktop GUI client for the SFA
- ► Sface GUI v0.1-6:
 - Developed by OneLab and PlanetLab teams
 - Written in PyQT (Mac OS X, Linux, Windows)
 - Code is public, will be announced soon

Demo



VICCI

- Goal: build next-gen Cloud infrastructure
- VICCI clusters
 - US Sites: Princeton, GA Tech, UW, Stanford
 - International: MPI-SWS, ETH Zurich, UTokyo
 - Each site
 - 70 12-core servers, 48GB RAM, 3TB disk, 2x1Gb NIC
 - 4 OpenFlow switches
 - Managed by PlanetLab control framework
- Challenge…







VICCI Plan

- Equipment is at the sites
- First cluster online in two weeks
 - Federate with PlanetLab
 - Manage VICCI slice resources using the Sface GUI
- Other US clusters soon after
- Support initial research projects
- Extend VICCI driven by researcher needs



Next Steps for PlanetLab CF

- Announce Sface GUI to PL community
- Bring up VICCI, federate with PLC
- Federate GENICloud with PLC
- Advertise ProtoGENI resources

