

Software Track Outbrief

GEC 12
Kansas City

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www.geni.net



- Project Highlights
- I & M Working Session
- Control Framework Topics
- Aggregate Manager API
- Authorization
- Cloud Computing Workshop
- Experimenter Roundtable
- ORCA Cluster Meeting
- ProtoGENI Cluster Meeting
- Coding Sprint for Developers and Experimenters

- InCommon and GENI Portal update
 - Metadata published and 2 Identity Providers share data with the GENI Project Office Service Provider
- RSpecs in GENI are now known as GENI v3
 - Hosted on geni.net
- Stitching update from Tom Lehman
 - Reviewed the adopted architecture and schema
 - Omni has a tree mode library
 - Negotiation and chain mode are next work areas

- Adam Slagell – chair
- Ilia Baldine, Andy Bavier, Ted Faber
- Follow-up to GEC 11 Federation presentation
- Essential vs. optional Clearinghouse services
- Project Leader
 - General agreement that these are people endorsed as *responsible* by the Clearinghouse
- Cross-aggregate coordination
 - Are there federation wide policies requiring global knowledge?
 - We have no good use cases
 - There was strong argument against requiring such coordination

- Shaping version 2
- RSpec changes
 - Rough consensus, running code
 - Already widely deployed – ProtoGENI, PlanetLab, ORCA, OpenFlow
 - Standardized schemas
- Richer arguments
 - Open all calls with the ability to add options
- Richer return values
 - Structured returns to provide more information to clients

- Update slices / slivers
 - Discussed more broadly on dev@geni.net, only briefly in meeting
 - Some contentious points
- Tickets
 - Guest speakers: Rob Ricci, Ilia Baldine, Andy Bavier
 - Discussed current implementations
 - Discussed benefits
 - Two-phase commit
 - Resource brokering
 - Future reservations

- Attribute-Based Access Control (ABAC)
 - Led by Steve Schwab and Ted Faber
- Intro to ABAC
 - Ted Faber, ISI / ABAC
- Proposed vocabulary for GENI authorization
 - Ted Faber, ISI / ABAC
- Accountability and authorization
 - Jeff Chase, Duke / ORCA
- Implementing ABAC in PlanetLab
 - David Cheperdak, University of Victoria
- Security driven pub-sub protocols
 - Richard Kagan, Infoblox

- Running code:
 - libabac and creddy from ISI
 - ProtoGENI integration
 - ORCA integration
 - Identity Portal integration
- On track for final vote at GEC 13 (March, 2012)

- Organized by Rick McGeer (HP) and Vic Thomas (GPO)
- Presentations by:
 - Andy Bavier (PlanetLab/VICCI)
 - Ilia Baldine (ORCA/ExoGENI)
 - Mike Zink (DICloud)
 - Joe Mambretti (StarLight)
 - Steve Schwab (Security)
 - GENICloud Team (U. Vic)

- This afternoon from 1:00 PM – 4:00 PM
- Free-form opportunity for developers and experimenters
- Work out GENI AM API v2 details
- Assist experimenters build experiments and use GENI