

Meso-scale Monitoring: Introduction

Sarah Edwards, GPO Chaos Golubitsky, GPO



Two goals for today's meeting:

- #1 Bottom-up
 - Continue to address day-to-day issues & pains
- #2 Top-down
 - Look ahead 6-36 months to where GENI is headed
 - Ensure:
 - We don't ignore any important pieces
 - Architecture decisions reflect needs of monitoring so that GENI Clearinghouse, I&M, etc serve our needs
 - Where possible, we build tools which can be adapted to new software when it becomes available



- Introduction [5 min]
 - Sarah Edwards, GPO
- Bottom-Up
 - FOAM: New OpenFlow Aggregate Manager [10 min]
 - Josh Smift, GPO
 - Using SNAPP to Find and Visualize GENI Monitoring Data [20] min]
 - Camilo Viecco, Indiana University & John Meylor, Indiana University
 - Topology [15 min]
 - Chaos Golubitsky, GPO
- Top-Down
 - Monitoring/Mgmt Requirements & Discussion [1 hour]
 - Sarah Edwards, GPO



GEC12 Status & Change since GEC11

	Exploring Networks		
	Status		Requirement/Pain Point
		(1)	Standard monitoring stats: cpu, mem usages; i/f stats
V		(2)	Topology information. (a) End-to-end testing/Network reachability (b) Integrity of topology.
		(3)	OpenFlow Stats
	NEW @ GEC11	(4)	Make monitoring software easier to deploy (ie. plastic slices monitoring software)
/	NEW @ GEC11	(5)	Administering OpenFlow AM (OF Opt-In) and tie-together GENI things for OF (ie slivernames hard to determine from slice name)
		(6)	Aggregate/campus/slice view of resources and their availability
V		(7)	Sharing data (a) SNMP data (b) Sharing of non-SNMP data
		(8)	Privacy
		(9)	Collecting and sharing of GENI usage/overall experiment stats
		(10)	Accountability report: How to prove if this is not my fault?
Je ^{te}		(11)	Others?
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