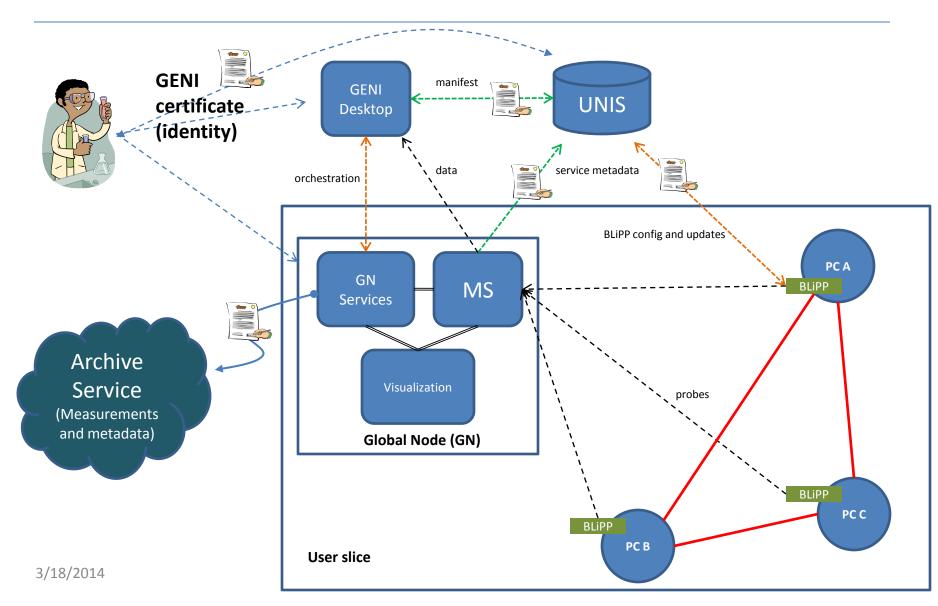
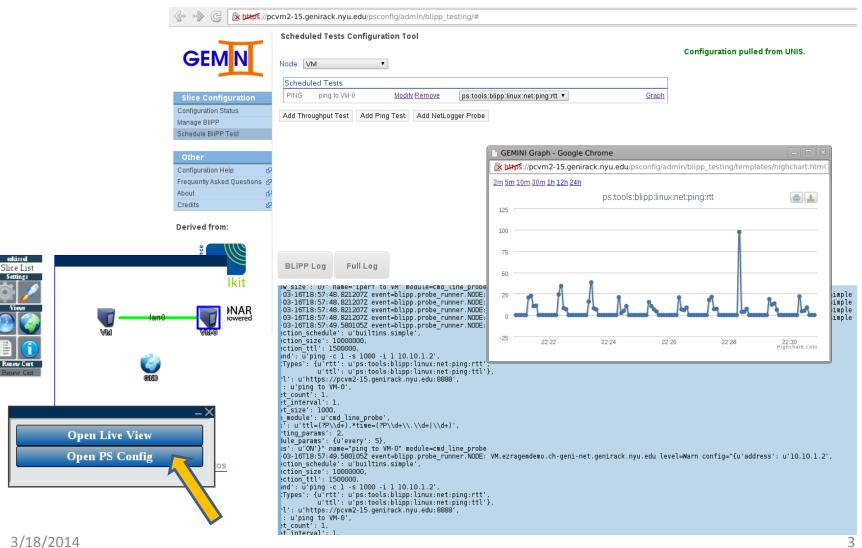
Measurement components

- Unified Network Information Service (UNIS)
 - Topology and service information plus measurement metadata
 - RESTful implementation, built-in AuthN/AuthZ
- Measurement Store (MS)
 - Stores timestamp-value pairs, validates metadata
 - Configurable data collections
- Measurement collectors
 - Basic Lightweight Periscope Probes (BLiPP)
 - Active and passive measurements
 - Interacts with UNIS and MS
- Configuration and visualization
 - Web-frontends (GUIs), CLIs, etc.
 - Config updates pushed to UNIS, pulled by collectors

GEMINI measurement architecture

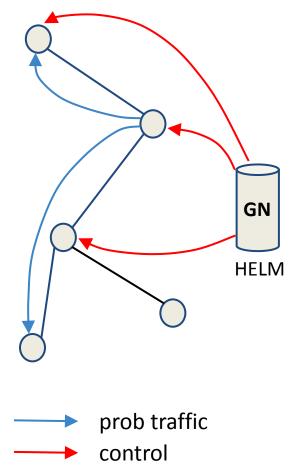


Web-GUI



BLiPP measurement scheduling

- HELM is at the "helm": controlling the distributed BLiPP services to run measurements without contention
- HELM discovers all BLiPP services
- BLiPP services run setup probes to find shared resources
 - Provides input into the HELM controller
- A schedule of measurements is advertised to BLiPP that meets the desired goal
 - "full mesh" tests working now
 - Node collections, deterministic time slot scheduling in the works



info