



# NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

September 23 – 25, 2019 | Minneapolis, MN

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**NSF Program (either CC or CICI): CICI**

**Program Area: OAC**

**Award Number: 1840069**

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**Project Title: SAMPRA: Scalable Analysis, Management, and  
Protection of Research Artifacts**



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## Quad Chart for:

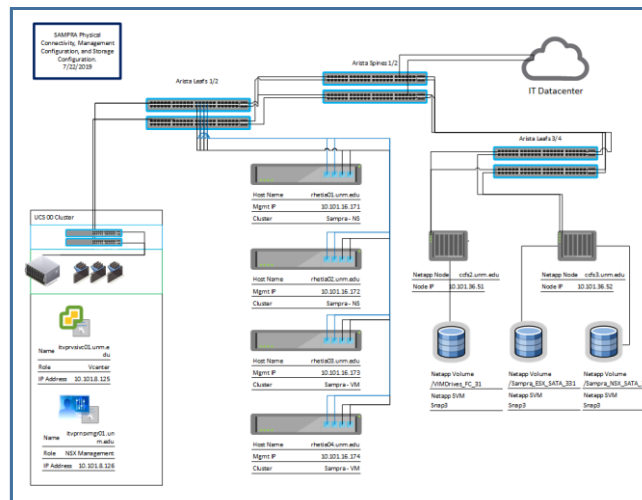
## SAMPRA: Scalable Analysis, Management, and Protection of Research Artifacts

### Challenge:

- Fragmentation of academic cyber-infrastructure systems.
- Management of sensitive data across research networks.
- Virtualization of interdisciplinary, collaborative research and computational platforms.
- Security/manageability tradeoffs of system isolation/sharing models

### Current Status/Solution(s):

- Architected VM-based system for supporting academic research with sensitive data.
- Examining scalable approaches for high-speed acquisition of data artifacts.
- Developing techniques and policies for systems that manage protected data.
- Successfully deployed initial system infrastructure, conducted full CSET assessment.



### Broader Impact:

- Enable robust, auditable research collaborations for require access to sensitive data.
- Develop training materials for collaborative management of sensitive research data.
- Train students, faculty, and staff in virtualization of research environments.

### Metadata tag(s):

- *Open science*
- *Managing sensitive data*
- *Interdisciplinary research*
- *Data preservation*
- *Training materials*
- *NIST 800-171*
- *Virtual research environments*