



# 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: SSC**

**Award Number: 1840003**

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**Project Title:** Securing Science Gateway Cyberinfrastructure with Custos



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## Quad Chart for: *Securing Science Gateway Cyberinfrastructure with Custos*

### Challenge

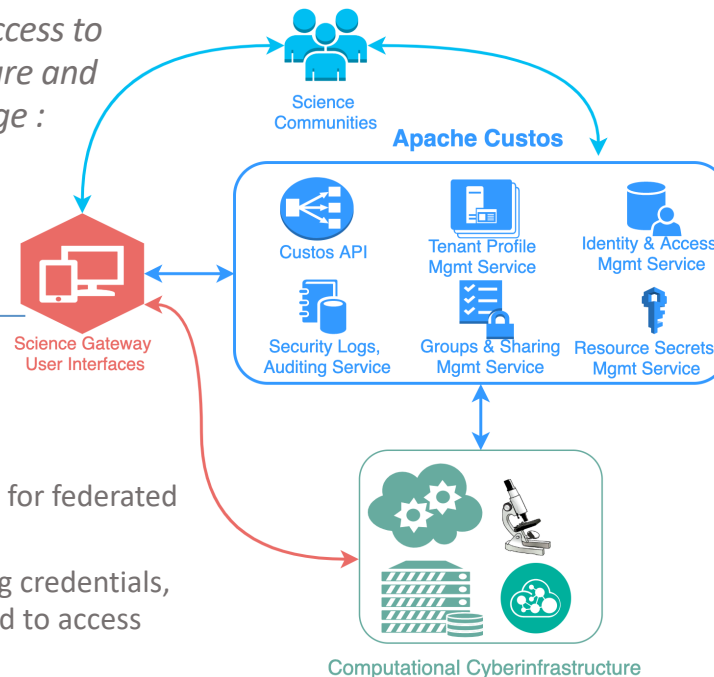
*Science gateways democratize access to advanced computing infrastructure and are challenged to securely manage :*

- User Identities
- Third Party Resource Access
- Digital Object Permissions

### Solution

Custos provides:

- Seamless integration with CILogon for federated authentication
- Vault service for securely managing credentials, tokens, keys and other secrets used to access remote resources
- Collaboration services for managing the sharing of digital objects created by users of gateways.



### Scientific Impact

Initial Clients include:

- Apache Airavata based Science Gateways
- Galaxy based Science Gateways
- Hathi Trust Research Center

### Metadata tag:

- Year 1 of 3
- Production Ready (hosted on SciGaP Platform)
- Open Source:  
<https://github.com/apache/airavat-a-custos>
- Contact:  
[custos@airavata.apache.org](mailto:custos@airavata.apache.org)