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Open Storage Network Seminar Series

Get Your Own Pod

January 21, 2021

NSF grants

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A Few Simple Ideas

- Collaborative Governance and Operation
- Geographically distributed Storage, accessible via URIs
- Centralized management where needed for cost effective operation

Ways to Join the OSN

- Small data Sets
 - Obtain an allocation via XSEDE or from an OSN site

Add Data Sets

- Large Data Sets
 - Work with OSN to obtain funding for new capacity

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- Host OSN storage
 - In cooperation with other OSN members

Add Capacity

- Participate in governance and/or operation
 - advisory board | leadership team | devops team

Hosting OSN Storage – *General Considerations*

- Network Access
 - Locate pods in a Science DMZ, with access to Internet2
- Security
 - Sites are responsible for physical access control and network security outside the pod
 - OSN Pods follow Trusted CI Center of Excellence guidelines
- Software Installation and Maintenance
 - Supported by the Command Center
- Hardware Acquisition, Installation, and Maintenance
 - See next slide

Hardware

Acquisition, Installation, and Maintenance

- Option 1 - Install an OSN Pod
 - Single rack of equipment, fully integrated prior to delivery
 - Hardware failures detected by the Command Center
 - Site staff needed for hardware replacement
- Option 2 (in development) - Leverage Existing Storage
 - Add a slice of an existing Posix file system to the OSN
 - Install an OSN gateway that supports:
 - Access to the storage via OSN URIs
 - Management of the storage via the OSN Command Center



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