

Cyberinfrastructure Resource Integration

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SP Software Call

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XSEDE

Extreme Science and Engineering
Discovery Environment



Supported by OAC 15-48562.

CRI activities

Help grow the aggregate CI from campuses, collaborations, to XSEDE

- SP Coordination - Thanks, Tabitha!
- Toolkits for better CI integration
 - OpenHPC installation
 - Virtual Cluster Toolkit
 - OpenStack base architecture
 - Container Template Library
- Consulting and training
 - bringing best practices from XSEDE to campus and regional collaborations

...and we help with Letters of Support for NSF MRI's, CC, and other proposals!*



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CRI Engagements

- Infrastructure Deployments
 - Marshall U, West Virginia U, Southern Illinois U, University of Texas El Paso, Clarkson, University of Central Oklahoma, George Mason, University of Cincinnati, Doane University, Bentley University
- Engagements on Policy and Implementations
 - Arizona State University, Brown University, Oral Roberts University
- Goals:
 - Provide best practices from many sites to be implemented locally
 - Collect policy and implementation reflections from broader community
 - Solicit needs for toolkits from implementers



CRI Outcomes

- Toolkits and documentation
- Over 1TF of aggregate computing capacity supporting thousands of users
- Helped with overall architectural planning, purchase, and acquisition of large systems
- Multiple MRIs supported with a few winners



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CRI for SP's

- All of Tabitha's hard work on SP coordination
- All of the stuff on the previous slide is available for SP's
- And did I mention we can help with letters for grant proposals?
- But also - software toolkits that are potentially useful for you
 - We integrate existing software
 - We've been working on making it easier to do implementations

