



4g - IU Cyberinfrastructure Gateway

Action Item Template Response

General Action Item Information

Lead Division/Office: Research Technologies

Action Item Number: 4g

Action Item Short Name: Cyberinfrastructure

Project Short Name: IU Cyberinfrastructure Gateway

Dependencies with other EP Action Items:

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INTRODUCTION AND BACKGROUND

The complex cyberinfrastructures required to enable scientific research have traditionally had significant barriers to entry due to the learning curve of the command line environment and scripting languages required to develop and maintain workflows. The friendlier interfaces that have made our desktop applications so much more intuitive are also making high end research systems more accessible, providing opportunities for domain scientists to utilize powerful resources while maintaining focus on their research. This improvement in accessibility also provides new opportunities in outreach to potential new communities of researchers.

I. DESCRIBE YOUR PLANS FOR IMPLEMENTING THIS ACTION.

The RT division of UITS will develop a gateway interface to provide visibility and access to its systems and resources. This gateway will provide at least the following functionality:

- Local and InCommon authentication to systems at IU and partner institutions
- Introduction and information about available systems and services
- Current and historical load, usage and queue wait information
- Graphical access to storage systems and file transfers
- Command line access windows to RT systems
- User history and allocation information

II. WHAT ARE THE POLICY AND PRACTICE IMPLICATIONS OF YOUR PLANS

Increased visibility and broader access to high-end computing resources.

III. IDENTIFY STAKEHOLDERS.

Faculty and other researchers at Indiana University campuses, RT/PTI.